Terra Oilfield Services

Biliken 6 Federal 1H-Release #1 Closure Report

Section 16, Township 26S, Range 34E Lea County, New Mexico

April 17, 2018



Prepared for:

Terra Oilfield Services 15487 Pin Oak Drive Conroe, TX 77384

By:

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

TABLE OF CONTENTS

I.	COMPANY CONTACTS	1
		•••
II.	BACKGROUND	1
III.	SURFACE AND GROUND WATER	1
IV.	CHARACTERIZATION	1
٧.	WORK PERFORMED	2
VI.	REQUEST FOR CLOSURE	2
VII.	FIGURES & APPENDICES	2
F	FIGURES & APPENDICESigure 1 – Vicinity Map	3
F	igure 2 – Site Plan	4
Δ	ppendix A – C-141ppendix B – Groundwater	5
Α	ppendix B – Groundwater	6
Α	ppendix C – Analytical Results	7

I. Company Contacts

Representative	Company	Telephone	E-mail
Todd Nilson	Terra Oilfield Services	618-407-6696	Todd.nilson@terraofs.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 Terra Oilfield Services to assess a spill area on the Biliken 6 Federal 1H Release #1, concerning a eight (8) bbl. treated water release. This site is situated in Lea County, Section 16, Township 26S, and Range 34E.

According to the C-141: approximately eight (8) barrels of treated water was released when a transfer line pressured up and a flange at a road crossing failed. Soil sampling will be conducted and a remediation plan determined upon receipt of sampling results.

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 240' bgs.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to	Less than 50 feet	20 points	
_	50 feet to 99 feet	10 points	
groundwater)	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source; or less than 1000 feet from all	No	0 points	Χ
other water sources)		-	
Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	Χ
RANKING SCORE (TOTAL POINTS)			0
,			

V. Work Performed

On March 29, 2017 Safety and Environmental Solutions, Inc. (SESI) personnel, are onsite to look over the Terra Biliken release #1 and to determine where to install the boreholes using the Geo probe to determine vertical extent of contamination. After looking over the release area, SESI personnel advised to bore down to four feet and every four feet to field test the soil samples. Borehole one was installed to the depth of ten feet. The soil was wet, red sand to four feet, five to twelve feet caliche, clay mix a lot of moisture. At the four to eight foot boring the plastic core liner crimped up and was easily extracted. At the eight to twelve foot boring the plastic liner again crimped up inside the core barrel and we had a hard time extracting the liner and soil sample. The liner and soil sample was lost in removing and clearing the core barrel and boring was stopped. Soil sample cores were capped off, labeled and properly preserved. Borehole two was then installed to the depth of refusal at five and half feet. Soil sample cores were capped and properly preserved. The sample points were mapped using the Juno 3B.

On April 7, 2017, SESI personnel was onsite at the Terra Biliken Release #1 with Custom Welding Backhoe w/operator and spotter to install test trenches to determine vertical extent of contamination. Test trench one was installed to the depth of sixteen feet and soil samples were obtained at two foot increments. Soil samples were field tested for Chlorides. The soil character, surface to four feet was red sand, four to eight was red clay caliche mix, and eight to sixteen was hard caliche with one to four inch angular rock. Vertical was met at fourteen feet. Test results were less than 124 ppm at fourteen feet and less than 124 ppm at sixteen. The trench was then backfilled. Trench two was then installed to the depth of thirteen feet to refusal. The soil character, surface to four feet, was red sand; four to eight feet, sand and clay mix; eight to thirteen feet, solid hard caliche rock. Vertical was met at twelve feet with test results 124 ppm and less than 124 ppm at thirteen feet. Trench was then backfilled. Trench three was then installed to refusal at six feet. Soil character, surface to four feet, was red sand; four to six feet, solid rock hard caliche. The test result at six feet refusal was 848 ppm. Trench was then backfilled. Trench four was installed to the depth of refusal at eight feet. Soil character, surface to six feet, red sand clay mix; six to eight feet, caliche to rock solid hard caliche. The test result at eight feet was 608 ppm. Trench was then backfilled. Trench five was installed to the depth of refusal at four feet. Soil character, surface to four feet red sand and clay mix; four foot solid rock hard caliche rock. Test result at four foot was 848 ppm. The soil sample points were mapped using the Juno 3B and photos were taken of the test trenches. The samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500Cl-B). The results are recapped in the following table:

	Terra Oilfield Services Biliken 6 Fed 1H Release #1													
	Soil Sample Results: Cardinal Laboratories 4-10-2017													
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	Chlorides	TPH	TPH	EXT					
			benzene	Xylenes	BTEX		GRO	DRO	DRO					
TT-1 @ 2ft	<0.050	<0.050	<0.050	<0.150	<0.300	5040	<10.0	<10.0	<10.0					
TT-1 @ 6ft	<0.050	<0.050	<0.050	<0.150	<0.300	11800	<10.0	<10.0	<10.0					
TT-1 @ 10ft	<0.050	<0.050	<0.050	<0.150	<0.300	2840	<10.0	<10.0	<10.0					
TT-1 @ 14ft	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	<10.0	<10.0	<10.0					
TT-1 @ 16ft	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0	<10.0					
TT-2 @ 2ft	<0.050	<0.050	<0.050	<0.150	<0.300	4930	<10.0	<10.0	<10.0					
TT-2 @ 8ft	<0.050	<0.050	<0.050	<0.150	<0.300	2800	<10.0	<10.0	<10.0					
TT-2 @ 12ft	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	<10.0	<10.0					
TT-2 @ 14ft	<0.050	<0.050	<0.050	<0.150	<0.300	144	<10.0	<10.0	<10.0					
TT-3 @ 4ft	<0.050	<0.050	<0.050	<0.150	<0.300	6000	<10.0	<10.0	<10.0					
TT-3 @ 6ft	<0.050	<0.050	<0.050	<0.150	<0.300	912	<10.0	<10.0	<10.0					
TT-4 @ 4ft	<0.050	<0.050	<0.050	<0.150	<0.300	4240	<10.0	<10.0	<10.0					
TT-4 @ 6ft	<0.050	<0.050	<0.050	<0.150	<0.300	1440	<10.0	<10.0	<10.0					
TT-4 @ 8ft	<0.050	<0.050	<0.050	<0.150	<0.300	688	<10.0	<10.0	<10.0					
TT-5 @ 2ft	<0.050	<0.050	<0.050	<0.150	<0.300	10600	<10.0	<10.0	<10.0					
TT-5 @ 4ft	<0.050	<0.050	<0.050	<0.150	<0.300	1020	<10.0	<10.0	<10.0					

From March 5, 2018, to March 8, 2018, SESI personnel, along with SDR personnel, were onsite at the Terra Biliken Release #1 to begin remediation and moving the spoils. The excavation began on the far south of the release area. During excavation, water was found at three feet. A water sample was obtained for analyzation, but would not filter due to silty sand in the sample. A large plastic liner was placed near the lease road and the belly dump truck began moving the spoils and stock piling them on the liner. The track hoe continued to excavate the release area. Throughout the excavation, soil samples were obtained and field tested for Chlorides. All soil samples obtained at this time tested Less than 128 ppm. Soil samples were properly preserved. Soil sampling was also performed on the lease road and six auger holes were installed to the depth of three feet and field tested for Chlorides. All test results on the six soil samples were less than 128 ppm. Soil samples were then obtained from the bottom and walls and field tested for Chlorides. Once the excavation of the release area was complete, the belly trucks made multiple trips to disposal. One disposal hauled a total of two hundred forty yards of spoils. Another disposal totaled four hundred sixty yards disposed. All soil samples were properly preserved and all tested under the 250 ppm range for Chlorides. Akome personnel was onsite and installed the 20 mil. liner. All spoils piles were moved to one pile near the lease road. The excavation and sample points were mapped using the Juno 3B. Photos were taken of the excavation before and after the liner was installed.

From March 12, 2018 to March 16, 2018, SESI personnel, along with SDR personnel, were onsite the Terra Biliken Release #1 to continue loading and hauling spoils. The trucks make two trips each for a total of three hundred twenty yards of spoils disposed. The hauling of the spoils was completed and back filling the excavation began. The area where the spoils were stock piled to finish was back dragged. A small water truck was brought onsite to water down the lease road which allowed the dump trucks to back up to the excavation while the back hoe pushed the back fill into the excavation. One hundred thirty two yards of back was fill hauled in. The dump trucks made several trips to disposal for a total of three hundred ninety six yards of back fill hauled in. The back fill is pushed in and back dragged to finish by the back hoe.

The samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM and Hall Environmental Analysis Laboratory of Albuquerque, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method 300). The results are recapped in the following table:

	Terra Oilfield Services										
			Release #1	Results: 3-21	1-2018						
						TPH	TPH	TPH			
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	GRO	DRO	DRO	Chlorides		
SAIVIPLE ID	Benzene	roluene	benzene	Xylenes	BTEX	C6-	C10-	C28-	Chiorides		
						C10	C28	C36			
SP-1 South Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-2 West Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-3 East Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-4 Bottom 4ft	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-5 Bottom 4ft	ND	ND	ND	ND	ND	ND	ND	ND	37		
SP-6 West Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-7 East Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-8 Bottom 4ft	ND	ND	ND	ND	ND	ND	ND	ND	75		
SP-9 West Wall	ND	ND	ND	ND	ND	ND	ND	ND	71		
SP-10 East Wall	ND	ND	ND	ND	ND	ND	ND	ND	72		
SP-11 West Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-12 East Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-13 West Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-14 Bottom 4ft	ND	ND	ND	ND	ND	ND	ND	ND	74		
SP-15 North Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-16 Bottom 4ft	ND	ND	ND	ND	ND	ND	ND	ND	65		
SP-17 North Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-18 South Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-19 East Wall	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-20 Bottom 3ft	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-21 Bottom 3ft	ND	ND	ND	ND	ND	ND	ND	ND	ND		
SP-22 Bottom 3ft	ND	ND	ND	ND	ND	ND	ND	ND	35		

VI. Request for Closure

The impacted area was excavation to a depth of approximately 4' bgs where all vertical and horizontal results of the confirmation sampling indicate that all soils impacted above 100 ppm TPH and 250 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. In view of the confirmation sampling, no liner was installed on the bottom of the excavation. The area was backfilled with clean soil and returned to grade. Terra Oilfield Services submits this closure report and requests that no further action be required.

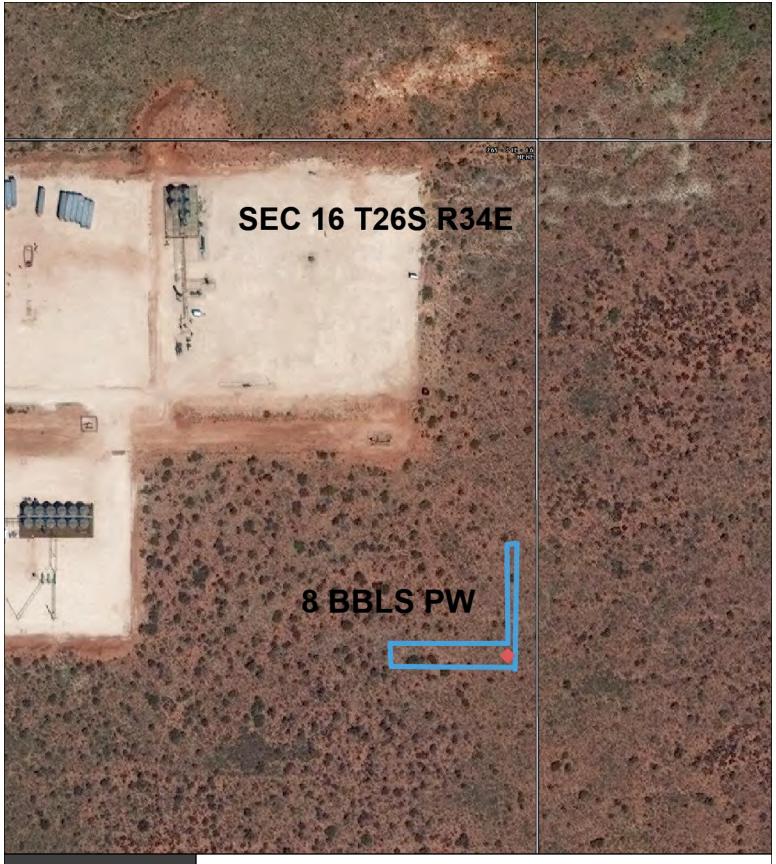
VII. Figures & Appendices

Figure 1 - Vicinity Map Figure 2 - Site Plan

Appendix A – C-141
Appendix B – Groundwater
Appendix C – Analytical Results

Appendix D – Photo Documentation

Figure 1 Vicinity Map



Spill 3/20/2017



WGS_1984_Web_Mercator_Auxiliary_Sphere Prepared by: Menoud Map is current as of: 23-Mar-2017



Figure 2 Site Plan





Appendix A C-141

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

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised August 8, 2011

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

			Rele	ase Notific	cation	and Co	rrective A	ction					
						OPERA'			al Report 🔃 Final Report				
Name of Co (6137)	ompany:	Devon Ener	gy Prod	uction Co LP	•	Contact:	Stephen Richa	ards, Devon Con	npletions Foreman				
Address:		PO Box 250				Telephone N		52-3717					
Facility Nat	me:	Billiken 6 F	ederal 1I	I]	Facility Type: Oil Well							
Surface Ow	ner:	State		Mineral C)wner:	State		API No	. 30-025-42685				
				LOCA		OF REI	LEASE						
Unit Letter A	Section 16	Township 26S	Range 34E	Feet from the 660		South Line ORTH	Feet from the 30	East/West Line EAST	County LEA				
	•	1	l .	itude: 32.0484	•		le:103.46653	•					
						- ° OF RELI							
Type of Rele	ase:			1471	CILL		Release: 8 BB	LS Volume F	Recovered: 0 BBLS				
Source of Re	lease	TREATED V	WATER			Date and F	Iour of Occurrence	e Date and	Hour of Discovery				
	FAII	LED FLANGI	E ON WA	TER LINE		3/20/20	017; 7:00 PM		/2017; 7:00 PM				
Was Immedia	ate Notice	Given?	Yes	No Not Ro	equired	If YES, To	Whom? N/A						
By Whom?		NT/A				Date and H							
Was a Water	course Rea	N/A ched?				If YES, Vo	N/A blume Impacting t						
			Yes 🗵	No		N/A							
If a Watercou	ırse was In	npacted, Descr	ibe Fully.*	N/A									
After comple	ting a frac		actor com	pleted filling the					ntors to shut down. He then shut				
									d crossing failed. When the ne was pinched off to prevent				
				ediately made to									
		and Cleanup A			10 4	1 11071	141	1377 4 41	1. (6.11				
lease road. A	A central lo	cation of the sp	oill is: Lat	– N 32.048490; I	Long – V	V -103.46653	8 and is approxin	nately 3.28 miles Se	beline easement following the buthwest of the Billiken 6 Fed				
#1. An estime	nated 8 barr	els of treated p	oroduced v	vater was spilled	and none	e was recover	ed, all water soak	ted into the sand. A	A remediation contractor will be				
	· C	· c	1		1 , , ,1	1	1 1 1 1	1 4 141 4	AL NIMOCD 1 1				
									uant to NMOCD rules and eases which may endanger				
									eve the operator of liability , surface water, human health				
or the environ	nment. In a	addition, NMC	CD accep						ompliance with any other				
federal, state	, or local la	ws and/or regu	ılations.				OIL CON	CEDVATION	DIVICION				
Signature:	Den	ise Men	oud				OIL CON	<u>SERVATION</u>	DIVISION				
						Approved by	Environmental S	pecialist:					
Printed Name	e: Denis	se Menoud											
Title:	Field	Admin Suppo	ort			Approval Dat	te:	Expiration	Date:				
E-mail Addre	ess: Denis	e.Menoud@d	n.com			Conditions of	f Approval:		Attached				
Date: 3/23	3/2017	P	hone: 575 -	-746-5544									

^{*} Attach Additional Sheets If Necessary

Appendix B Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a (R=POD has been replaced, O=orphaned,

& no longer serves a C=the file is water right file.) Closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD Sub-		Q (Q Q						Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	X	Υ	Well	Water	Column
C 03795 POD1	С	LE	4 4	1 3	24	26S	35E	658419	3544221 🌑	496	250	246
J 00005 POD1		LE	2 2	2 2	13	26S	35E	659200	3547174* 🎒	601	230	371

Average Depth to Water: 240 feet

Minimum Depth: 230 feet

Maximum Depth: 250 feet

Record Count: 2

PLSS Search:

Township: 26S Range: 35E

Appendix C Analytical Results



April 13, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TER -17-001

Enclosed are the results of analyses for samples received by the laboratory on 04/10/17 11:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager

04/07/2017



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date:

Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact
Project Number: TER - 17-001 Sample Received By: Celey D. Keene

Analyzed By MC

Project Location: NOT GIVEN

Sample ID: TT-1 2' (H700944-01)

DTEV 0021D

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	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	04/12/2017	ND	432	108	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	89.8	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	95.9	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: Sampling Type: Soil

04/13/2017 Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Project Number: TER - 17-001 Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: TT-1 6' (H700944-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 72-148	,						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	04/12/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	86.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.9	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017

Reported: 04/13/2017 Sampling Type: Soil Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Project Number: TER - 17-001 Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: TT-1 10' (H700944-03)

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	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	< 0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	< 0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	04/12/2017	ND	432	108	400	3.64	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	82.8	% 28.3-16	4						
Surrogate: 1 Chlorocetadaeana	25.5	0/ 3/7/15	7						

Surrogate: 1-Chlorooctadecane 85.5 % 34.7-157

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Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: Sampling Type: Soil

04/13/2017 Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: TER - 17-001

Project Location: **NOT GIVEN**

Sample ID: TT-1 14' (H700944-04)

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	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/12/2017	ND	432	108	400	3.64	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	90.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.4	% 34 7-15	7						

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Received: 04/10/2017 Sampling Date: 04/07/2017 Sampling Type: Soil

Reported: 04/13/2017 Project Name: TER -17-001 Project Number: TER - 17-001

Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: TT-1 16' (H700944-05)

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	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	< 0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/12/2017	ND	432	108	400	3.64	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	88.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.3	% 34.7-15	7						

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Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: TER - 17-001

Project Location: **NOT GIVEN**

Sample ID: TT-2 2' (H700944-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0 %	72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4930	16.0	04/12/2017	ND	432	108	400	3.64	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	85.7 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89 2 9	% 3 <i>4 7-15</i>	7						

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Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Project Number: TER - 17-001 Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: TT-2 8' (H700944-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 72-148	}						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	04/12/2017	ND	432	108	400	3.64	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	93.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.1	% 34.7-15	7						

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Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: Sampling Type: Soil

04/13/2017 Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Project Number: TER - 17-001 Celey D. Keene

Analyzed By: MC

Project Location: **NOT GIVEN**

ma/ka

Sample ID: TT-2 12' (H700944-08)

RTFY 8021R

BIEX 8021B	mg	кд	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	< 0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	< 0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/12/2017	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	92.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.5	% 347-15	7						

Surrogate: 1-Chlorooctadecane 95.5 % 34.7-157

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Fax To: (575) 393-4388

Received: 04/10/2017

Sampling Date: 04/07/2017 Sampling Type: Soil

 Reported:
 04/13/2017

 Project Name:
 TER -17-001

 Project Number:
 TER - 17- 001

Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: TT-2 14' (H700944-09)

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	04/11/2017	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	04/11/2017	ND	1.80	89.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	04/11/2017	ND	1.78	88.9	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/11/2017	ND	5.05	84.2	6.00	1.42	
Total BTEX	<0.300	0.300	04/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 72-148	,						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	88.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.3	% 34.7-15	7						

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Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Project Number: TER - 17-001 Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: TT-3 4' (H700944-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2017	ND	1.73	86.6	2.00	1.84	
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	
Ethylbenzene*	< 0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	86.4	% 28.3-16	4						
Surrogate: 1 Chlorocetadaeana	80.08	0/ 3/17/15	7						

89.9 % Surrogate: 1-Chlorooctadecane 34.7-157

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04/07/2017



Analytical Results For:

Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date:

Reported:04/13/2017Sampling Type:SoilProject Name:TER -17-001Sampling Condition:Cool & IntactProject Number:TER - 17- 001Sample Received By:Celey D. Keene

Project Location: NOT GIVEN

Sample ID: TT-3 6' (H700944-11)

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	04/12/2017	ND	1.73	86.6	2.00	1.84	
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	79.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.3	% 34.7-15	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen

Sampling Date:

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017

ma/ka

Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact

Project Number: TER - 17- 001 Sample Received By: Celey D. Keene

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: TT-4 4' (H700944-12)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2017	ND	1.73	86.6	2.00	1.84	
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	73.8	% 28.3-164	!						
Surrogate: 1-Chlorooctadecane	74.5	% 34.7-157	,						

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: TER - 17-001

Project Location: **NOT GIVEN**

Sample ID: TT-4 6' (H700944-13)

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	04/12/2017	ND	1.73	86.6	2.00	1.84	
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	86.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.0	% 34 7-15	7						

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: Sampling Type: Soil

04/13/2017 Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: TER - 17-001

Project Location: **NOT GIVEN**

Sample ID: TT-4 8' (H700944-14)

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	04/12/2017	ND	1.73	86.6	2.00	1.84	
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	86.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.5	% 34 7-15	7						

89.5 % Surrogate: 1-Chlorooctadecane 34.7-157

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 04/10/2017 Sampling Date: 04/07/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact Sample Received By: Project Number: TER - 17-001 Celey D. Keene

Project Location: **NOT GIVEN**

Sample ID: TT-5 2' (H700944-15)

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	04/12/2017	ND	1.73	86.6	2.00	1.84	
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	82.3 9	% 28.3-16	4						
Surrogata: 1 Chlorocetadaeana	25.10	0/2 3/17/15	7						

85.1 % Surrogate: 1-Chlorooctadecane 34.7-157

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 04/10/2017
 Sampling Date:
 04/07/2017

 Reported:
 04/13/2017
 Sampling Type:
 Soil

Reported: 04/13/2017 Sampling Type: Soil

Project Name: TER -17-001 Sampling Condition: Cool & Intact

Project Number: TER - 17- 001 Sample Received By: Celey D. Keene

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: TT-5 4' (H700944-16)

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2017	ND	1.73	86.6	2.00	1.84	QR-03
Toluene*	<0.050	0.050	04/12/2017	ND	1.62	81.2	2.00	1.50	QR-03
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.62	80.8	2.00	2.04	QR-03
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.58	76.3	6.00	1.63	QR-03
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 72-148							
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	04/11/2017	ND	448	112	400	0.00	
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	<10.0	10.0	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	04/11/2017	ND					
Surrogate: 1-Chlorooctane	91.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.9	% 34.7-15	7						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

S P P P C A P C 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	ANALYSIS REQUEST	
ompany Name: Safety and Environmental Solutions	BILLIO	
	- 1	
3 East Clinton, PO Box 1613	Company: Same	
Hobbs State:	Attn:	
-0510 F	ess:	
4		
	State: Zip:	
roject Name:		_
roject Location:	01	
	FAX #:	
ampler Name: MATRIX	PRESERV. SAMPLING	
	JDGE HER: ID/BASE: E/COOL HER: CLOV	
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PLEASE NOTE: Unbility and Damages. Cardinal's liability and dien's exclusive remedy for any claim arising whether based in contract or text, shall be limited to the amount poid by the clerk for the PLEASE NOTE: Unbility and Damages. Cardinal's liability and clerks exclusive remedy for any claim arising whether based in contract or text, shall be further within 10 and received by Cardinal within 10 ages after complete or of the applicable of the state of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the applicable of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the shall be deemed waked unless made in writing and received by Cardinal within 10 ages after complete or of the shall be deemed water and the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after complete or of the shall be deemed within 10 ages after c	contract or text, shall be limited to the amount paid by the client for the contract or text, shall be limited to the another complete on of the explicable that the contract within 30 days after complete on of the explicable that the contract profess of profess the contract of the contract profess of profess the contract that the contract profess of profess the contract profess of profess the contract that the contract profess of profess the contract that the contract profess of profess the contract profess the contract profess of profess the contract profess the contra	
analyses. All claims including uses no region of the above dated reasons or otherwise, service. In no event shall cardinal be liable for indeental or consequental damages, including without limitation, business incurvations, over the service and the liable for indeental or consequental damages, including without limitation, business incurvations, over the service and the liable for indeental or consequential damages, including without limitation, business incurvations, over the service and the liable for indeental or consequential damages, including without limitation, business incurvations, over the service and the liable for indeental or consequential damages, including without limitation, business interviews.] Yes □ No	
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Bus - Other: 3,3°C	No COLLETS	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/	BILL TO ANALYSIS	IS REQUEST
Calety and		- 1
Project Manager: Boh Allen	P.O.#:	
703 E	Company: Same	
Hobbs	40 Attn:	
575 397-0510 Fax#: 575 3	Address:	
100-17-001	City:	
7 1 100	State: Zip:	
Project Name:	#	
Project Location:	7.	
Sampler Name:	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D. G)RAB OR (C)OMP. CONTAINERS GROUNDWATER	VASTEWATER SOIL DIL SLUDGE DTHER:	
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PLEASE NOTE: Liability and Damages. Cardinals satisfy and crime successory shall be deemed waived unless made in writing and received by Cardinal wittin 30 days arise companions analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal wittin 30 days arise companions. In the cause what is a subsidiaries.	unless made in writing and received by Cardinal within 30 days aires companies. n. bysiness interruptions, loss of use, or loss of profits incurred by cferri, its subsidiaries.	
analyses. As callins mounding was a second of the above stated reasons or otherwise. service. In no event shall Cardinal be sable for incidental or consequental damages, including without firmitation, business interruptions, one of the above stated reasons or otherwise. Phone Resul	t: 🗆 Yes 🗆 No	ne#:
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Sampler - UPS - Bus - Other: 3,32	Cook Intact (Initials) Res R ves No No No WHTS	



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

March 21, 2018

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Terry Billiken Release #1 OrderNo.: 1803587

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 22 sample(s) on 3/10/2018 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1803587

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-13 West Wall

Project: Terry Billiken Release #1 **Collection Date:** 3/8/2018 10:15:00 AM

Lab ID: 1803587-001 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 11:31:36 AM	37081
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/15/2018 2:29:56 PM	37025
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/15/2018 2:29:56 PM	37025
Surr: DNOP	104	70-130	%Rec	1	3/15/2018 2:29:56 PM	37025
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/14/2018 12:17:02 PM	36994
Surr: BFB	100	15-316	%Rec	1	3/14/2018 12:17:02 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	3/14/2018 12:17:02 PM	36994
Benzene	ND	0.024	mg/Kg	1	3/14/2018 12:17:02 PM	36994
Toluene	ND	0.048	mg/Kg	1	3/14/2018 12:17:02 PM	36994
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2018 12:17:02 PM	36994
Xylenes, Total	ND	0.096	mg/Kg	1	3/14/2018 12:17:02 PM	36994
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	3/14/2018 12:17:02 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	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 Page 1 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-14 Bottom 4ft.

 Project:
 Terry Billiken Release #1
 Collection Date: 3/8/2018 12:10:00 PM

 Lab ID:
 1803587-002
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	74	30	mg/Kg	20	3/17/2018 12:08:50 PM	37081
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/15/2018 3:36:12 PM	37025
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/15/2018 3:36:12 PM	37025
Surr: DNOP	106	70-130	%Rec	1	3/15/2018 3:36:12 PM	37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2018 1:27:51 PM	36994
Surr: BFB	97.6	15-316	%Rec	1	3/14/2018 1:27:51 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	3/14/2018 1:27:51 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 1:27:51 PM	36994
Toluene	ND	0.046	mg/Kg	1	3/14/2018 1:27:51 PM	36994
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2018 1:27:51 PM	36994
Xylenes, Total	ND	0.092	mg/Kg	1	3/14/2018 1:27:51 PM	36994
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	3/14/2018 1:27:51 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Received Date: 3/10/2018 9:30:00 AM

Date Reported: 3/21/2018

3/14/2018 2:38:15 PM

36994

Hall Environmental Analysis Laboratory, Inc.

Lab ID:

1803587-003

Surr: 4-Bromofluorobenzene

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-15 North Wall

Project: Terry Billiken Release #1 **Collection Date:** 3/8/2018 10:30:00 AM

Matrix: SOIL

94.7

PQL Qual Units Analyses Result **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 20 3/17/2018 12:21:14 PM 37081 Chloride ND 30 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM ND Diesel Range Organics (DRO) 9.5 mg/Kg 3/15/2018 3:58:29 PM 37025 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/15/2018 3:58:29 PM 37025 Surr: DNOP 102 70-130 %Rec 3/15/2018 3:58:29 PM 37025 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **NSB** Gasoline Range Organics (GRO) ND 4.8 mg/Kg 3/14/2018 2:38:15 PM 36994 Surr: BFB 98.5 %Rec 3/14/2018 2:38:15 PM 36994 15-316 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 0.097 mg/Kg 1 3/14/2018 2:38:15 PM 36994 36994 Benzene ND 0.024 mg/Kg 3/14/2018 2:38:15 PM 1 Toluene ND 0.048 mg/Kg 1 3/14/2018 2:38:15 PM 36994 Ethylbenzene ND 0.048 mg/Kg 3/14/2018 2:38:15 PM 36994 Xylenes, Total ND 0.097 mg/Kg 3/14/2018 2:38:15 PM 36994

80-120

%Rec

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-16 Bottom 4ft.

Project: Terry Billiken Release #1

Collection Date: 3/8/2018 10:45:00 AM

Lab ID: 1803587-004 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	65	30	mg/Kg	20	3/17/2018 12:33:39 PM	37081
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/15/2018 4:20:35 PM	37025
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/15/2018 4:20:35 PM	37025
Surr: DNOP	105	70-130	%Rec	1	3/15/2018 4:20:35 PM	37025
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/14/2018 3:01:44 PM	36994
Surr: BFB	97.5	15-316	%Rec	1	3/14/2018 3:01:44 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	3/14/2018 3:01:44 PM	36994
Benzene	ND	0.024	mg/Kg	1	3/14/2018 3:01:44 PM	36994
Toluene	ND	0.048	mg/Kg	1	3/14/2018 3:01:44 PM	36994
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2018 3:01:44 PM	36994
Xylenes, Total	ND	0.096	mg/Kg	1	3/14/2018 3:01:44 PM	36994
Surr: 4-Bromofluorobenzene	95.0	80-120	%Rec	1	3/14/2018 3:01:44 PM	36994

- 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 Page 4 of 30
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-17 North Wall

 Project:
 Terry Billiken Release #1
 Collection Date: 3/8/2018 11:05:00 AM

 Lab ID:
 1803587-005
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 12:46:03 PM	37081
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/15/2018 4:42:52 PM	37025
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/15/2018 4:42:52 PM	37025
Surr: DNOP	103	70-130	%Rec	1	3/15/2018 4:42:52 PM	37025
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2018 3:25:04 PM	36994
Surr: BFB	99.1	15-316	%Rec	1	3/14/2018 3:25:04 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	3/14/2018 3:25:04 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 3:25:04 PM	36994
Toluene	ND	0.046	mg/Kg	1	3/14/2018 3:25:04 PM	36994
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2018 3:25:04 PM	36994
Xylenes, Total	ND	0.093	mg/Kg	1	3/14/2018 3:25:04 PM	36994
Surr: 4-Bromofluorobenzene	95.2	80-120	%Rec	1	3/14/2018 3:25:04 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/21/2018

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-18 South Wall

Project: Terry Billiken Release #1 **Collection Date:** 3/8/2018 12:25:00 PM

Lab ID: 1803587-006 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 12:58:28 PM	1 37081
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/15/2018 5:05:01 PM	37025
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/15/2018 5:05:01 PM	37025
Surr: DNOP	108	70-130	%Rec	1	3/15/2018 5:05:01 PM	37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/14/2018 3:48:30 PM	36994
Surr: BFB	102	15-316	%Rec	1	3/14/2018 3:48:30 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	3/14/2018 3:48:30 PM	36994
Benzene	ND	0.024	mg/Kg	1	3/14/2018 3:48:30 PM	36994
Toluene	ND	0.049	mg/Kg	1	3/14/2018 3:48:30 PM	36994
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2018 3:48:30 PM	36994
Xylenes, Total	ND	0.098	mg/Kg	1	3/14/2018 3:48:30 PM	36994
Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	1	3/14/2018 3:48:30 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Safety & Environmental SolutionsClient Sample ID: SP-19 East WallProject:Terry Billiken Release #1Collection Date: 3/8/2018 1:30:00 PM

Lab ID: 1803587-007 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 1:35:41 PM	37081
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/15/2018 5:27:14 PM	37025
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/15/2018 5:27:14 PM	37025
Surr: DNOP	107	70-130	%Rec	1	3/15/2018 5:27:14 PM	37025
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2018 4:11:56 PM	36994
Surr: BFB	103	15-316	%Rec	1	3/14/2018 4:11:56 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	3/14/2018 4:11:56 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 4:11:56 PM	36994
Toluene	ND	0.046	mg/Kg	1	3/14/2018 4:11:56 PM	36994
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2018 4:11:56 PM	36994
Xylenes, Total	ND	0.093	mg/Kg	1	3/14/2018 4:11:56 PM	36994
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	3/14/2018 4:11:56 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
 Project: Terry Billiken Release #1
 Collection Date: 3/8/2018 1:45:00 PM
 Lab ID: 1803587-008
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 2:12:53 PM	37081
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/15/2018 5:49:13 PM	37025
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/15/2018 5:49:13 PM	37025
Surr: DNOP	109	70-130	%Rec	1	3/15/2018 5:49:13 PM	37025
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/14/2018 6:09:21 PM	36994
Surr: BFB	98.0	15-316	%Rec	1	3/14/2018 6:09:21 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	3/14/2018 6:09:21 PM	36994
Benzene	ND	0.024	mg/Kg	1	3/14/2018 6:09:21 PM	36994
Toluene	ND	0.048	mg/Kg	1	3/14/2018 6:09:21 PM	36994
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2018 6:09:21 PM	36994
Xylenes, Total	ND	0.096	mg/Kg	1	3/14/2018 6:09:21 PM	36994
Surr: 4-Bromofluorobenzene	93.8	80-120	%Rec	1	3/14/2018 6:09:21 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Sample container temperature is out of limit as specified

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-21 Bottom 3ft.

Project: Terry Billiken Release #1

Collection Date: 3/8/2018 2:00:00 PM

Lab ID: 1803587-009 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 2:25:18 PM	37081
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/15/2018 6:11:20 PM	37025
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/15/2018 6:11:20 PM	37025
Surr: DNOP	111	70-130	%Rec	1	3/15/2018 6:11:20 PM	37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/14/2018 6:32:36 PM	36994
Surr: BFB	103	15-316	%Rec	1	3/14/2018 6:32:36 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	3/14/2018 6:32:36 PM	36994
Benzene	ND	0.025	mg/Kg	1	3/14/2018 6:32:36 PM	36994
Toluene	ND	0.049	mg/Kg	1	3/14/2018 6:32:36 PM	36994
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2018 6:32:36 PM	36994
Xylenes, Total	ND	0.099	mg/Kg	1	3/14/2018 6:32:36 PM	36994
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	3/14/2018 6:32:36 PM	36994

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 9 of 30 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

% Recovery outside of range due to dilution or matrix

Lab Order 1803587

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-22 Bottom 3ft. **Collection Date:** 3/8/2018 2:15:00 PM

Project: Terry Billiken Release #1 1803587-010 Lab ID:

Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	35	30	mg/Kg	20	3/17/2018 2:37:43 PM	37081
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/15/2018 6:33:23 PM	37025
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/15/2018 6:33:23 PM	37025
Surr: DNOP	102	70-130	%Rec	1	3/15/2018 6:33:23 PM	37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/14/2018 6:55:48 PM	36994
Surr: BFB	106	15-316	%Rec	1	3/14/2018 6:55:48 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	3/14/2018 6:55:48 PM	36994
Benzene	ND	0.025	mg/Kg	1	3/14/2018 6:55:48 PM	36994
Toluene	ND	0.049	mg/Kg	1	3/14/2018 6:55:48 PM	36994
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2018 6:55:48 PM	36994
Xylenes, Total	ND	0.099	mg/Kg	1	3/14/2018 6:55:48 PM	36994
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	3/14/2018 6:55:48 PM	36994

Matrix: SOIL

Qualifiers:	*
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- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 30 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order **1803587**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/21/2018

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-1 South Wall

Project: Terry Billiken Release #1 Collection Date: 3/6/2018 8:30:00 AM

Lab ID: 1803587-011 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 2:50:07 PM	37081
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/15/2018 6:55:24 PM	37025
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/15/2018 6:55:24 PM	37025
Surr: DNOP	106	70-130	%Rec	1	3/15/2018 6:55:24 PM	37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/14/2018 7:18:58 PM	36994
Surr: BFB	112	15-316	%Rec	1	3/14/2018 7:18:58 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	3/14/2018 7:18:58 PM	36994
Benzene	ND	0.025	mg/Kg	1	3/14/2018 7:18:58 PM	36994
Toluene	ND	0.050	mg/Kg	1	3/14/2018 7:18:58 PM	36994
Ethylbenzene	ND	0.050	mg/Kg	1	3/14/2018 7:18:58 PM	36994
Xylenes, Total	ND	0.10	mg/Kg	1	3/14/2018 7:18:58 PM	36994
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	3/14/2018 7:18:58 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Le	evel.

- 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 limit Page 11 of 30
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Received Date: 3/10/2018 9:30:00 AM

Lab Order 1803587

3/14/2018 7:42:06 PM

3/14/2018 7:42:06 PM

36994

36994

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

Lab ID:

Xylenes, Total

Surr: 4-Bromofluorobenzene

1803587-012

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 West Wall

Matrix: SOIL

ND

110

Project: Terry Billiken Release #1 **Collection Date:** 3/6/2018 8:45:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 3/17/2018 3:02:32 PM 37081 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND mg/Kg 3/15/2018 7:17:24 PM 37025 9.6 mg/Kg Motor Oil Range Organics (MRO) ND 48 1 3/15/2018 7:17:24 PM 37025 Surr: DNOP 105 70-130 %Rec 3/15/2018 7:17:24 PM 37025 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 3/14/2018 7:42:06 PM 36994 Surr: BFB 113 3/14/2018 7:42:06 PM 15-316 %Rec 36994 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 0.096 mg/Kg 1 3/14/2018 7:42:06 PM 36994 Benzene ND mg/Kg 3/14/2018 7:42:06 PM 36994 0.024 1 Toluene ND 0.048 mg/Kg 3/14/2018 7:42:06 PM 36994 1 Ethylbenzene ND 0.048 mg/Kg 3/14/2018 7:42:06 PM 36994

0.096

80-120

mg/Kg

%Rec

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Ε Value above quantitation range Analyte detected below quantitation limits Page 12 of 30 Η Holding times for preparation or analysis exceeded J Not Detected at the Reporting Limit P Sample pH Not In Range ND PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Lab Order 1803587

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-3 East Wall

Project: Terry Billiken Release #1 **Collection Date:** 3/6/2018 8:55:00 AM

Lab ID: 1803587-013 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 3:14:57 PM	37081
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/15/2018 7:39:40 PM	37025
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/15/2018 7:39:40 PM	37025
Surr: DNOP	101	70-130	%Rec	1	3/15/2018 7:39:40 PM	37025
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/14/2018 8:05:19 PM	36994
Surr: BFB	109	15-316	%Rec	1	3/14/2018 8:05:19 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	3/14/2018 8:05:19 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 8:05:19 PM	36994
Toluene	ND	0.047	mg/Kg	1	3/14/2018 8:05:19 PM	36994
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2018 8:05:19 PM	36994
Xylenes, Total	ND	0.094	mg/Kg	1	3/14/2018 8:05:19 PM	36994
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	3/14/2018 8:05:19 PM	36994

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Lab Order **1803587**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/21/2018

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-4 Bottom 4ft.

 Project:
 Terry Billiken Release #1
 Collection Date: 3/6/2018 9:05:00 AM

 Lab ID:
 1803587-014
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 3:27:22 PM	37081
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/15/2018 8:01:31 PM	37025
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/15/2018 8:01:31 PM	37025
Surr: DNOP	103	70-130	%Rec	1	3/15/2018 8:01:31 PM	37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/14/2018 8:28:37 PM	36994
Surr: BFB	111	15-316	%Rec	1	3/14/2018 8:28:37 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	3/14/2018 8:28:37 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 8:28:37 PM	36994
Toluene	ND	0.047	mg/Kg	1	3/14/2018 8:28:37 PM	36994
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2018 8:28:37 PM	36994
Xylenes, Total	ND	0.093	mg/Kg	1	3/14/2018 8:28:37 PM	36994
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	3/14/2018 8:28:37 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 14 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1803587

Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/21/2018

CLIENT: Safety & Environmental Solutions **Client Sample ID:** SP-5 Bottom 4ft.

Project: Terry Billiken Release #1 **Collection Date:** 3/6/2018 11:10:00 AM Lab ID: 1803587-015 Matrix: SOIL Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	37	30	mg/Kg	20	3/17/2018 4:04:36 PM	37081
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/15/2018 8:23:34 PM	37025
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/15/2018 8:23:34 PM	37025
Surr: DNOP	103	70-130	%Rec	1	3/15/2018 8:23:34 PM	37025
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2018 8:51:58 PM	36994
Surr: BFB	113	15-316	%Rec	1	3/14/2018 8:51:58 PM	36994
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	3/14/2018 8:51:58 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 8:51:58 PM	36994
Toluene	ND	0.046	mg/Kg	1	3/14/2018 8:51:58 PM	36994
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2018 8:51:58 PM	36994
Xylenes, Total	ND	0.093	mg/Kg	1	3/14/2018 8:51:58 PM	36994
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	3/14/2018 8:51:58 PM	36994

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
- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 15 of 30 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1803587

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-6 West Wall

Project: Terry Billiken Release #1 **Collection Date:** 3/6/2018 11:30:00 AM

Lab ID: 1803587-016 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 4:17:00 PM	37081
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/15/2018 8:45:30 PM	37025
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/15/2018 8:45:30 PM	37025
Surr: DNOP	104	70-130	%Rec	1	3/15/2018 8:45:30 PM	37025
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/14/2018 9:15:21 PM	36994
Surr: BFB	118	15-316	%Rec	1	3/14/2018 9:15:21 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	3/14/2018 9:15:21 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 9:15:21 PM	36994
Toluene	ND	0.047	mg/Kg	1	3/14/2018 9:15:21 PM	36994
Ethylbenzene	ND	0.047	mg/Kg	1	3/14/2018 9:15:21 PM	36994
Xylenes, Total	ND	0.094	mg/Kg	1	3/14/2018 9:15:21 PM	36994
Surr: 4-Bromofluorobenzene	115	80-120	%Rec	1	3/14/2018 9:15:21 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 16 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-7 East wall

 Project:
 Terry Billiken Release #1
 Collection Date: 3/6/2018 11:45:00 AM

 Lab ID:
 1803587-017
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 4:29:25 PM	37081
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/15/2018 9:07:32 PM	37025
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/15/2018 9:07:32 PM	37025
Surr: DNOP	101	70-130	%Rec	1	3/15/2018 9:07:32 PM	37025
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2018 9:38:47 PM	36994
Surr: BFB	115	15-316	%Rec	1	3/14/2018 9:38:47 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	3/14/2018 9:38:47 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 9:38:47 PM	36994
Toluene	ND	0.046	mg/Kg	1	3/14/2018 9:38:47 PM	36994
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2018 9:38:47 PM	36994
Xylenes, Total	ND	0.092	mg/Kg	1	3/14/2018 9:38:47 PM	36994
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	3/14/2018 9:38:47 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 17 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-8 Bottom 4ft.

Project: Terry Billiken Release #1

Collection Date: 3/8/2018 8:30:00 AM

Lab ID: 1803587-018 **Matrix:** SOIL **Received Date:** 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	75	30	mg/Kg	20	3/17/2018 4:41:49 PM	37081
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/15/2018 9:29:29 PM	37025
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/15/2018 9:29:29 PM	37025
Surr: DNOP	99.6	70-130	%Rec	1	3/15/2018 9:29:29 PM	37025
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/14/2018 11:11:53 PM	36994
Surr: BFB	121	15-316	%Rec	1	3/14/2018 11:11:53 PM	36994
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	3/14/2018 11:11:53 PM	36994
Benzene	ND	0.023	mg/Kg	1	3/14/2018 11:11:53 PM	36994
Toluene	ND	0.046	mg/Kg	1	3/14/2018 11:11:53 PM	36994
Ethylbenzene	ND	0.046	mg/Kg	1	3/14/2018 11:11:53 PM	36994
Xylenes, Total	ND	0.092	mg/Kg	1	3/14/2018 11:11:53 PM	36994
Surr: 4-Bromofluorobenzene	117	80-120	%Rec	1	3/14/2018 11:11:53 PM	36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 18 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Received Date: 3/10/2018 9:30:00 AM

Hall Environmental Analysis Laboratory, Inc.

Lab ID:

1803587-019

Date Reported: 3/21/2018

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-9 West Wall

Matrix: SOIL

Project: Terry Billiken Release #1 Collection Date: 3/8/2018 8:50:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 20 3/17/2018 4:54:14 PM Chloride 71 30 mg/Kg 37081 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.7 mg/Kg 3/15/2018 9:51:22 PM 37025 mg/Kg Motor Oil Range Organics (MRO) ND 48 1 3/15/2018 9:51:22 PM 37025 Surr: DNOP 104 70-130 %Rec 3/15/2018 9:51:22 PM 37025 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/14/2018 11:35:08 PM 36994 Gasoline Range Organics (GRO) ND 4.6 mg/Kg Surr: BFB 3/14/2018 11:35:08 PM 36994 122 15-316 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Methyl tert-butyl ether (MTBE) ND 0.093 mg/Kg 3/14/2018 11:35:08 PM Benzene ND mg/Kg 3/14/2018 11:35:08 PM 36994 0.023 1 Toluene ND 0.046 mg/Kg 3/14/2018 11:35:08 PM 36994 1 Ethylbenzene ND 0.046 mg/Kg 3/14/2018 11:35:08 PM 36994 Xylenes, Total ND 0.093 mg/Kg 3/14/2018 11:35:08 PM 36994 Surr: 4-Bromofluorobenzene 119 80-120 %Rec 3/14/2018 11:35:08 PM 36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.				
	D	Sample Diluted Due to Matrix				

- II II II' C C C C II
- 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 Page 19 of 30
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1803587**

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-10 East Wall

 Project:
 Terry Billiken Release #1
 Collection Date: 3/8/2018 9:10:00 AM

 Lab ID:
 1803587-020
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	72	30	mg/Kg	20	3/17/2018 5:06:39 PM	37081
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/15/2018 10:13:12 PM	1 37025
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/15/2018 10:13:12 PM	1 37025
Surr: DNOP	104	70-130	%Rec	1	3/15/2018 10:13:12 PM	1 37025
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/14/2018 11:58:23 PM	1 36994
Surr: BFB	127	15-316	%Rec	1	3/14/2018 11:58:23 PM	1 36994
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	3/14/2018 11:58:23 PM	1 36994
Benzene	ND	0.025	mg/Kg	1	3/14/2018 11:58:23 PM	1 36994
Toluene	ND	0.049	mg/Kg	1	3/14/2018 11:58:23 PM	1 36994
Ethylbenzene	ND	0.049	mg/Kg	1	3/14/2018 11:58:23 PM	1 36994
Xylenes, Total	ND	0.099	mg/Kg	1	3/14/2018 11:58:23 PM	1 36994
Surr: 4-Bromofluorobenzene	124	80-120	S %Rec	1	3/14/2018 11:58:23 PM	1 36994

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 20 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1803587**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/21/2018

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-11-West Wall

 Project:
 Terry Billiken Release #1
 Collection Date: 3/8/2018 9:30:00 AM

 Lab ID:
 1803587-021
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 5:43:53 PM	37082
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/15/2018 10:35:07 PM	M 37027
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/15/2018 10:35:07 PM	M 37027
Surr: DNOP	107	70-130	%Rec	1	3/15/2018 10:35:07 PM	M 37027
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/14/2018 9:55:25 AM	36995
Surr: BFB	97.2	15-316	%Rec	1	3/14/2018 9:55:25 AM	36995
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	3/14/2018 9:55:25 AM	36995
Benzene	ND	0.024	mg/Kg	1	3/14/2018 9:55:25 AM	36995
Toluene	ND	0.048	mg/Kg	1	3/14/2018 9:55:25 AM	36995
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2018 9:55:25 AM	36995
Xylenes, Total	ND	0.095	mg/Kg	1	3/14/2018 9:55:25 AM	36995
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	3/14/2018 9:55:25 AM	36995

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 21 of 30
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1803587

Date Reported: 3/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-12 East Wall

 Project:
 Terry Billiken Release #1
 Collection Date: 3/8/2018 9:45:00 AM

 Lab ID:
 1803587-022
 Matrix: SOIL
 Received Date: 3/10/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	3/17/2018 6:45:57 PM	37082
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/15/2018 11:40:30 PM	37027
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/15/2018 11:40:30 PM	37027
Surr: DNOP	106	70-130	%Rec	1	3/15/2018 11:40:30 PM	37027
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/14/2018 11:06:26 AM	36995
Surr: BFB	95.6	15-316	%Rec	1	3/14/2018 11:06:26 AM	36995
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	3/14/2018 11:06:26 AM	36995
Benzene	ND	0.024	mg/Kg	1	3/14/2018 11:06:26 AM	36995
Toluene	ND	0.048	mg/Kg	1	3/14/2018 11:06:26 AM	36995
Ethylbenzene	ND	0.048	mg/Kg	1	3/14/2018 11:06:26 AM	36995
Xylenes, Total	ND	0.096	mg/Kg	1	3/14/2018 11:06:26 AM	36995
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	3/14/2018 11:06:26 AM	36995

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 limit Page 22 of 30
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803587

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID MB-37081 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 37081 RunNo: 49884

Prep Date: 3/17/2018 Analysis Date: 3/17/2018 SeqNo: 1614548 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-37081 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37081 RunNo: 49884

Prep Date: 3/17/2018 Analysis Date: 3/17/2018 SeqNo: 1614549 Units: mg/Kg

RPDLimit Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 0 96.6 110

Sample ID MB-37082 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 37082 RunNo: 49884

Analysis Date: 3/17/2018 Prep Date: 3/17/2018 SeqNo: 1614578 Units: mg/Kg

%RPD Result **PQL** SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte HighLimit Qual

Chloride ND 1.5

Sample ID LCS-37082 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: RunNo: 49884 LCSS Batch ID: 37082

Prep Date: 3/17/2018 Analysis Date: 3/17/2018 SeqNo: 1614579 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 93.5 90

Sample ID MB-37081 TestCode: EPA Method 300.0: Anions SampType: mblk

PBS RunNo: 49933 Client ID: Batch ID: 37081

Prep Date: Analysis Date: 3/18/2018 3/17/2018 SeqNo: 1616549 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-37081 SampType: Ics TestCode: EPA Method 300.0: Anions

Batch ID: 37081 Client ID: LCSS RunNo: 49933

Prep Date: 3/17/2018 Analysis Date: 3/18/2018 SeqNo: 1616550 Units: mg/Kg

%RPD Result **PQL** SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte LowLimit Qual

Chloride 97.6 15 1.5 15.00 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 23 of 30

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803587

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID LCS-37027	SampType:	LCS	Test	Code: EP	PA Method	8015M/D: Di	esel Range	Organics	
Client ID: LCSS	Batch ID:	37027	R	unNo: 49	9816				
Prep Date: 3/14/2018	Analysis Date:	3/15/2018	S	eqNo: 16	612106	Units: mg/k	(g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10 50.00	0	101	70	130			
Surr: DNOP	5.3	5.000		107	70	130			
Sample ID MB-37027	SampType:	MBLK	Test	Code: EP	PA Method	8015M/D: Di	esel Range	Organics	
Client ID: PBS	Batch ID:	37027	R	unNo: 49	9816				
Prep Date: 3/14/2018	Analysis Date:	3/15/2018	S	eqNo: 16	612107	Units: mg/k	(g		
Analyte	Result PC	L 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	11	10.00		111	70	130			
Sample ID 1803587-001AMS	SampType:	MS	Test	Code: EP	PA Method	8015M/D: Die	esel Range	Organics	
Client ID: SP-13 West Wall	Batch ID:	37025	R	unNo: 49	9815				
Prep Date: 3/14/2018	Analysis Date:	3/15/2018	S	eqNo: 16	612409	Units: mg/k	(g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10 49.80	0	99.1	55.8	125			
Surr: DNOP	5.0	4.980		99.6	70	130			
Sample ID LCS-37025	SampType:	LCS	Test	Code: EP	PA Method	8015M/D: Di	esel Range	Organics	
Client ID: LCSS	Batch ID:	37025	R	unNo: 49	9815				
Prep Date: 3/14/2018	Analysis Date:	3/15/2018	S	eqNo: 16	612410	Units: mg/k	ζg		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10 50.00	0	96.7	70	130			
Surr: DNOP	4.9	5.000		98.4	70	130			
Sample ID MB-37025	SampType:	MBLK	Test	Code: EP	PA Method	8015M/D: Di	esel Range	Organics	
Client ID: PBS	Batch ID:	37025	R	unNo: 49	9815				
Prep Date: 3/14/2018	Analysis Date:	3/15/2018	S	eqNo: 16	612411	Units: mg/k	(g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ND	10				•			
Diesel Range Organics (DRO)	ND	10							
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)		50							

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 24 of 30

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803587**

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID 1803587-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-13 West Wall Batch ID: 37025 RunNo: 49815

Prep Date: 3/14/2018 Analysis Date: 3/15/2018 SeqNo: 1613271 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 9.6 48.17 0 99.3 55.8 3.12 20 125 Surr: DNOP 4.7 4.817 96.7 70 130

Sample ID 1803587-021AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-11-West Wall Batch ID: 37027 RunNo: 49815

Prep Date: 3/14/2018 Analysis Date: 3/15/2018 SeqNo: 1613292 Units: mg/Kg

4.677

LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 9.4 46.77 0 99.4 55.8 125

98.7

70

130

Sample ID 1803587-021AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SP-11-West Wall Batch ID: 37027 RunNo: 49815

4.6

Prep Date: 3/14/2018 Analysis Date: 3/15/2018 SeqNo: 1613293 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result **PQL** LowLimit HighLimit Diesel Range Organics (DRO) 46 9.3 46.64 99.0 55.8 125 0.633 20 Surr: DNOP 4.5 4.664 97.3 70 130 0 0

Qualifiers:

Surr: DNOP

* 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

Page 25 of 30

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803587**

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Project:	Terry Bil	liken Relea	se #1								
Sample ID	MB-36995	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 36	995	R	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis Da	ate: 3/	14/2018	S	SeqNo: 1	611145	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	ND	5.0	1000		05.4	4.5	0.10			
Surr: BFB		950		1000		95.4	15	316			
Sample ID	LCS-36995	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 36	995	R	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis Da	ate: 3/	14/2018	S	SeqNo: 1	611146	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	24	5.0	25.00	0	95.2	75.9	131			
Surr: BFB		1000		1000		102	15	316			
Sample ID	1803587-022AMS	SampTy	/pe: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	SP-12 East Wall	Batch	ID: 36	995	R	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis Da	ate: 3/	14/2018	S	SeqNo: 1	611149	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	27	4.6	23.23	0	116	77.8	128			
Surr: BFB		1000		929.4		111	15	316			
Sample ID	1803587-022AMSI	D SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	SP-12 East Wall	Batch	ID: 36	995	R	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis Da	ate: 3/	14/2018	S	SeqNo: 1	611150	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	26	4.6	22.94	0	115	77.8	128	2.26	20	
Surr: BFB		1000		917.4		111	15	316	0	0	
Sample ID	MB-36994	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 36	994	R	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis Da	ate: 3/	14/2018	S	SeqNo: 1	611158	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	e Organics (GRO)	ND	5.0								
Surr: BFB		970		1000		96.7	15	316			
Sample ID	LCS-36994	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 36	994	R	RunNo: 4	9775				
Prep Date:	3/13/2018	Analysis Da	ate: 3/	14/2018	S	SeqNo: 1	611159	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

Page 26 of 30

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803587

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID LCS-36994 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 36994 RunNo: 49775

Prep Date: 3/13/2018 Analysis Date: 3/14/2018 SeqNo: 1611159 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 106 75.9 131

Surr: BFB 1100 1000 109 15 316

Sample ID 1803587-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

SP-14 Bottom 4ft. Batch ID: 36994 RunNo: 49775

Analysis Date: 3/14/2018 SeqNo: 1611163 Prep Date: 3/13/2018 Units: mg/Kg

SPK value SPK Ref Val Analyte Result **PQL** %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 4.8 23.79 0 114 77.8 128 1000 Surr: BFB 951.5 110 15 316

Sample ID 1803587-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SP-14 Bottom 4ft. Batch ID: 36994 RunNo: 49775

SeqNo: 1611164 Prep Date: 3/13/2018 Analysis Date: 3/14/2018 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result **PQL** Gasoline Range Organics (GRO) 26 23.61 111 77.8 128 4.10 20 Surr: BFB 1000 944.3 111 15 316 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 27 of 30

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803587**

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID MB-36995	SampT	SampType: MBLK TestCode: EPA					8021B: Volat	iles					
Client ID: PBS	Batch	n ID: 36	995	R	RunNo: 4	9775							
Prep Date: 3/13/2018	Analysis D	oate: 3/	14/2018	SeqNo: 1611192			Units: mg/K	ίg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Methyl tert-butyl ether (MTBE)	ND	0.10											
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120						

Sample ID LCS-36995	Samp1	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID: LCSS	Batcl	h ID: 36	995	F	RunNo: 4	9775								
Prep Date: 3/13/2018	Analysis D	Date: 3/	14/2018	SeqNo: 1611193			Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Methyl tert-butyl ether (MTBE)	0.94	0.10	1.000	0	94.1	70.1	121							
Benzene	1.0	0.025	1.000	0	103	77.3	128							
Toluene	1.0	0.050	1.000	0	103	79.2	125							
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127							
Xylenes, Total	3.1	0.10	3.000	0	104	81.6	129							
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120							

Sample ID 1803587-021AMS	SampT	ype: MS	e: MS TestCode: EPA Method 8021B: Volatiles							
Client ID: SP-11-West Wall	Batch	n ID: 36	995	F	RunNo: 4	9775				
Prep Date: 3/13/2018	Analysis D	Date: 3/	14/2018	8	SeqNo: 1	611195	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.89	0.093	0.9251	0	96.4	56.9	130			
Benzene	1.0	0.023	0.9251	0	109	68.5	133			
Toluene	1.0	0.046	0.9251	0	109	75	130			
Ethylbenzene	1.0	0.046	0.9251	0	108	79.4	128			
Xylenes, Total	3.1	0.093	2.775	0	111	77.3	131			
Surr: 4-Bromofluorobenzene	0.86		0.9251		93.1	80	120			

Sample ID 1803587-021AMSI	Sample ID 1803587-021AMSD SampType: MSD					PA Method	8021B: Volat	iles		
Client ID: SP-11-West Wall	Batch	1D: 36 9	995	R	RunNo: 4					
Prep Date: 3/13/2018	Analysis D	ate: 3/	14/2018	S	SeqNo: 1	611196	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.92	0.10	1.000	0	91.8	56.9	130	2.90	20	
Benzene	1.0	0.025	1.000	0	102	68.5	133	1.79	20	
Toluene	1.0	0.050	1.000	0	102	75	130	0.672	20	
Ethylbenzene	1.0	0.050	1.000	0	102	79.4	128	1.44	20	

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 Detection Limit

W Sample container temperature is out of limit as specified

Page 28 of 30

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1803587**

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID MB-36994

Sample ID 1803587-021AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: SP-11-West Wall Batch ID: 36995 RunNo: 49775 Prep Date: 3/13/2018 Analysis Date: 3/14/2018 SeqNo: 1611196 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Xylenes, Total 0.10 O 1.98 20 3.1 3.000 105 77.3 131 Surr: 4-Bromofluorobenzene 0.92 1.000 91.8 80 120 0 0

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 36994 RunNo: 49775 Prep Date: 3/13/2018 Analysis Date: 3/14/2018 SeqNo: 1611206 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) ND 0.10 ND Benzene 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 0.94 1.000 94.4 120 Surr: 4-Bromofluorobenzene 80

Sample ID LCS-36994 TestCode: EPA Method 8021B: Volatiles SampType: LCS Client ID: LCSS Batch ID: 36994 RunNo: 49775 Prep Date: 3/13/2018 Analysis Date: 3/14/2018 SeqNo: 1611207 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.94 0.10 1.000 0 94.3 70.1 121 Benzene 1.0 0.025 1.000 0 102 77.3 128 Toluene 0.050 1.000 0 101 79.2 125 1.0 Ethylbenzene 0.99 0.050 1.000 0 99.3 80.7 127 103 81.6 Xylenes, Total 3.1 0.10 3.000 0 129 Surr: 4-Bromofluorobenzene 0.95 1.000 94.8 120

SampType: MS TestCode: EPA Method 8021B: Volatiles Sample ID 1803587-001AMS Client ID: SP-13 West Wall Batch ID: 36994 RunNo: 49775 Prep Date: 3/13/2018 Analysis Date: 3/14/2018 SeqNo: 1611209 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 98.8 56.9 0.92 0.093 0.9311 0 130 Benzene 0.99 0.023 0.9311 0 106 68.5 133 Toluene 0.99 0.047 0.9311 0 106 75 130 Ethylbenzene 0.98 0.047 0.9311 Λ 105 79.4 128 Xylenes, Total 3.0 0.093 2.793 0 108 77.3 131 Surr: 4-Bromofluorobenzene 0.90 0.9311 96.7 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

D Committee and Not In Donner

Page 29 of 30

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803587**

21-Mar-18

Client: Safety & Environmental Solutions

Project: Terry Billiken Release #1

Sample ID 1803587-001AM	SD SampT	rampType: MSD TestCode: EPA Method 8021B: V								
Client ID: SP-13 West Wal	I Batch	atch ID: 36994 RunNo: 49775								
Prep Date: 3/13/2018	Analysis D	Date: 3/	14/2018	5	SeqNo: 1	611210	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.95	0.097	0.9690	0	98.1	56.9	130	3.23	20	
Benzene	1.0	0.024	0.9690	0	108	68.5	133	5.68	20	
Toluene	1.0	0.048	0.9690	0	107	75	130	4.32	20	
Ethylbenzene	1.0	0.048	0.9690	0	106	79.4	128	4.66	20	
Xylenes, Total	3.2	0.097	2.907	0	109	77.3	131	4.86	20	
Surr: 4-Bromofluorobenzene	0.93		0.9690		96.4	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Detection Limit
- W Sample container temperature is out of limit as specified

Page 30 of 30



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 Numb	per: 180	3587			RcptNo: 1
Received By Isalah Ortiz	3/10/2018 9:30:00 /	AM		Id	1	
Completed By: Isaiah Ortiz	3/12/2018 8:08:36 /	MA		Id	1	4-
Reviewed By: 8720 03/13/18				labele	d	By: 705
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No	6	Not Present
How was the sample delivered?		ÜM	rier			
Log In						
Was an attempt made to cool the samples?		Yes	v	No	a.	NA _
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	v	No		na 🗆
5. Sample(s) in proper container(s)?		Yes	V	No		
Sufficient sample volume for indicated test(s)?	Yes	v	No		
7. Are samples (except VOA and ONG) proper	y preserved?	Yes	~	Na		
8 Was preservative added to bottles?		Yes		No	Y	NA- 🗆
9. VOA vials have zero headspace?		Yes		No [No VOA Vials
0. Were any sample containers received broke	n?	Yes		No	~	
						# of preserved bottles checked
1. Does paperwork match bottle labels?		Yes	~	No		for pH ⁻ (<2 or >12 unless noted)
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of	Custodu2	Yes	~	No		Adjusted?
3. Is it clear what analyses were requested?	Custody!	Yes	V			
4. Were all holding times able to be met?		Yes	v	No [Checked by:
(If no, notify customer for authorization.)						
pecial Handling (if applicable)						
15. Was client notified of all discrepancies with	his order?	Yes	E	No		NA 💌
Person Notified:	Date:					
By Whom:	Via:	□ eMa	ail [Phone	Fax	In Person
Regarding:						
Client Instructions:						
16. Additional remarks:						
7. Cooler Information Cooler No Temp °C Condition Se	allered (Secure)	Pa-ID	400) manuar		ſ
1 17 Good Yes	sal Intact Seal No.	Seal Da	ite	Signed B	У	ł

Mailing Address: 703 C. Claryton, Mailing Address: 703 C. Clar		+	GUE	Salt + Glarannah	8	□ Standard	W Rush		J/L	1	. 4	1 4	N	U	A	AGO	ANALYSTS LABORATORY
Address: 703 E. C. C. L. John Page 18	0					Project Name	1			ı	*	w ha	enviro	ment	l oo	5	5
The Sch 245 24107 The Sch 245 24107 The Sch 245 3437 Fax 505 245 4107	Mailing	Address	703	SEC	lutor	11.12	. Kelem	1		4901 H	awkins	NE	Albug	uerque	Z	87109	
Figure Continue Figure Continue Figure Continue Cont)	100				Project #:				Tel. 50	5-345	3975	Fax	505-3	345-4	107	
Faceth: Faceth: Project Manager:	Phone		1	7-657	0	16	1-		5			A	alysī	s Requ	iest		
Continue	emailo	r Fax#;				Project Mana	ger.		_	_	-	Ç.	110	1			
Time Matrix Sampler	QA/QC (Stan	Package		□ Level 4 ((Full Validation)	0	Alex	11281				(SWIS	08.,09			(0)	
Time Matrix Sample Request Divest Dive	Accred	itation	6			-9.	17 N. 25	h					"GN			(3)	
Time Matrix Sample Request D Container Preservative HEAL No	□ NEL	AP	口。	er	Î		DYes	ON 🗆	_		_		_			3	
Time Matrix Sample Request ID Container Preservative HEAL No. 1 FAL No. 2 FAL SALA 4.5. 1 FAL NA.5. 1	□ EDD	(Type)				Sample Tem	perature:						_			7°	
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Appendix D Site Photos

Terra Oilfield Services-Biliken Release #1 Photos-March 24, 2017



























Terra Oilfield Services-Biliken Release #1 Excavation-North Side 3-2-18

























































Terra Oilfield Services-Biliken Release #1 Excavation-South Side 3-2-18













































Terra Oilfield Services-Biliken Release #1 Liner-South Side 3-2-18























Terra Oilfield Services-Biliken Release #1 Liner-North Side 3-2-18

































Terra Oilfield Services-Biliken Release #1 Project Complete 4-12-18





