### Bettis, Boyle & Stovall Pickett Draw Fed. Saltwater Disposal Line

#### **Work Plan**

#### Section 10, T25S, R29E Eddy County, New Mexico

**January 16, 2019** 



#### Prepared for:

Bettis, Boyle & Stovall P.O. Box 1240 Graham, TX 76450 By:

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

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#### I. Company Contacts

Representative	Company	Telephone	E-mail
Kyle Berrend	Bettis, Boyle & Stovall	940-549-0780	kberend@bbsoil.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 Bettis, Boyle & Stovall to assess and remediate pasture area from a salt water leak that was situated in Eddy Count, Section 10, Township 25S, and Range 29E.

According to the C-141: Less than 15 bbls., of produced water had leaked from a disposal line. The line was struck by an unknown driver, and not reported at the time of incident. The leak was discovered on May 08, 2018 and reported to the NMOCD, and assigned 2RO-4750. Attempts to repair the line by the driver were unsuccessful and ultimately reported to representative cor Bettis, Boyle, and Stovall. Safety & Environmental Solutions was contacted for remediation.

#### III. Surface and Ground Water

The New Mexico Office of the State Engineer records for indicates no presence of groundwater for the immediate area. However, the average depth to groundwater for Township 25S, Range 29E, indicated the depth to be 43 feet 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	
seasonal high water elevation of	50 feet to 99 feet	10 points	
groundwater)	>100 feet	0 points	Х
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	Х
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	X
RANKING SCORE (TOTAL POINTS)			0

#### V. Work Performed

On November 07, 2018, SESI personnel met with a representative from Bettis, Boyle, & Stovall on site in order to verify the correct location, and conduct a preliminary assessment of the impacted area. Five (5) surface samples were grabbed in order to determine the horizontal area of impact. All Samples were properly packaged, preserved, and transported to Cardinal Laboratories via chain of custody to be analyzed for Benzene, Toluene, Ethylbezene, Xylenes (BTEX) Method 8021B. Chlorides (Cl) Method SM4500Cl-B, Petroleum Hydrocarbons (GRO), and (DRO) Method TPH 8015M. The following table is a recap of the results:

	Soil Sa	mple Resu	ılts: Cardir	nal Laborat	tories 12	4-18		
SAMPLE ID	Benzene	Toluene	Ethyl	Total	Total	TPH	TPH	Chlorides
			benzene	Xylenes	BTEX	GRO	DRO	
SP-1	ND	ND	ND	ND	ND	ND	2120	32000
SP-2	ND	ND	ND	ND	ND	ND	<10.0	496
SP-3	ND	ND	ND	ND	ND	ND	<10.0	32
SP-4	ND	ND	ND	ND	ND	ND	<10.0	16
SP-5	ND	ND	ND	ND	ND	ND	6450	17600

On December 31, 2018, SESI personnel were on site, together with operator and equipment from SDR to begin delineation of the impacted area. The leak site is situated immediately East of the lease road, that has moderate traffic, A Test trench was installed at the previous Sample Point 5 position. The Test Trench was advance to 2' bgs. and field tested for Chlorides. The field results at this depth for Chlorides were 20,880 ppm. The Test Trench was advanced to 4' bgs. and the field tests results for Chlorides were 18,595. Due to the depth of the trench the equipment could not advance to depths necessary for proper delineation.

On January 07, 2019, SESI together with operator and equipment from SDR returned to the site in order to complete the delineation efforts. The Trackhoe was utilized to advance the Test Trench to depths of 2, 4, 5, 7, 8, 10, 12, and 17' bgs. respectively. Sidewall samples were retrieved from the Test Trench Northwall, Eastwall, Westwall, and Northwall respectively. The Eastwall sample was retrieved at 3' bgs, as this sidewall ran adjacent to the lease road. All Samples were properly packaged, preserved, and transported to Cardinal Laboratories via chain of custody to be analyzed for Benzene, Toluene, Ethylbezene, Xylenese (BTEX) Method 8021B. Chlorides (CI) Method SM4500CI-B, Petroleum Hydrocarbons (GRO), and (DRO) Method TPH 8015M. The following table is a recap of the results:

	Soil Sa	mple Resu	ılts: Cardir	nal Labora	tories 12	-4-18		
SAMPLE ID	Benzene	Toluene	Ethyl	Total	Total	TPH	TPH	Chlorides
			benzene		BTEX	GRO	DRO	
				Xylenes				
TT-1 @ 2ft.	ND	ND	ND	ND	ND	ND	<10.0	3800
TT-1 @ 4ft.	ND	ND	ND	ND	ND	ND	<10.0	42000
TT-1 @ 5ft.	ND	ND	ND	ND	ND	ND	<10.0	1680
TT-1 @ 7ft.	ND	ND	ND	ND	ND	ND	<10.0	448
TT-1 @ 8ft.	ND	ND	ND	ND	ND	ND	<10.0	1390
TT-1 @ 10ft.	ND	ND	ND	ND	ND	ND	<10.0	608
TT-1 @ 12ft.	ND	ND	ND	ND	ND	ND	<10.0	240
TT-1 @ 17ft.	ND	ND	ND	ND	ND	ND	<10.0	240
SP-7 South Wall	ND	ND	ND	ND	ND	ND	<10.0	32
SP-8 West Wall	ND	ND	ND	ND1	ND	ND	<10.0	96
SP-9 East Wall	ND	ND	ND	ND1	ND	ND	<10.0	1800
SP-10 North Wall	ND	ND	ND	ND1	ND	ND	<10.0	32

#### VI. Action Plan

Based on the sampling results listed above the following action plan is proposed: We propose to excavate the East Wall further to the extint that the Chloride levels are below the NMOCD recommended screening levels of <60 mg/kg., then to a depth of four (4) ft., install a 30 mil. Liner, and backfill with fresh top soil. All impacted soil will be transported to an NMOCD approved facility. SESI will revegetate the disturbance associated with the remediation at the release site with a BLM approved seed mixture in the Spring of 2019. Upon completion of all approved remediation activity, all necessary closure documentation will be submitted to the appropriate regulatory agencies, and parties of concern.

#### VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A - C-141

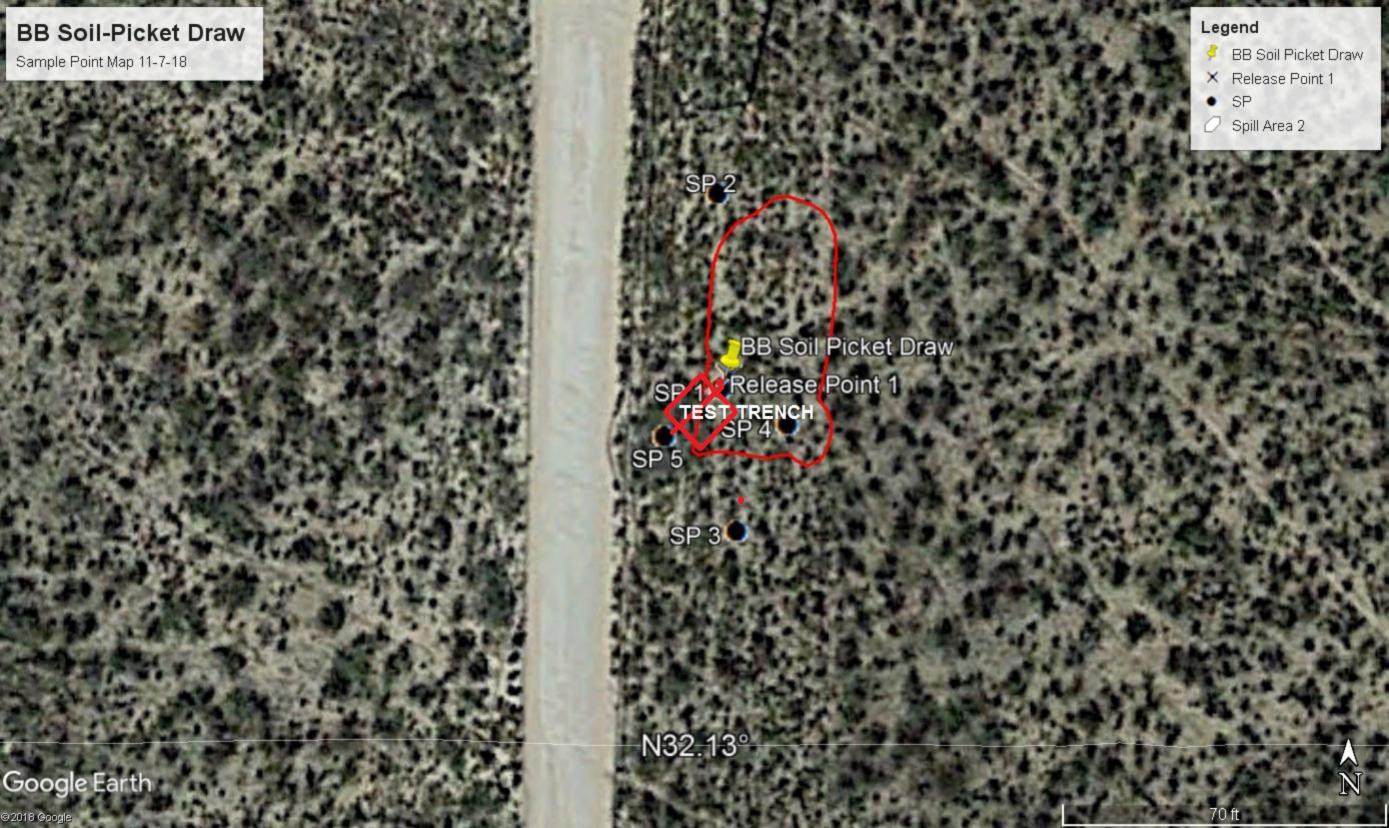
Appendix B – Groundwater

Appendix C – Analytical Results

### Figure 1 Vicinity Map



Figure 2 Site Plan



#### Appendix A C-141

District 1
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 IY
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

MAY 1 7 2018

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

DISTRICS PROPERTY STATE OF THE PROPERTY OF T

Santa Fe, NM 87505

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Contact Kyle Berend Bettis, Boyle & Stovall 940-549-0780 Address P.O Box 1240, Graham, TX 76450 Telephone No. Facility Type Produced Water Transportation Line Facility Name Pickett Draw Fed Saltwater Disposal Line API No. 30-015-25867 Mineral Owner BLM Surface Owner LOCATION OF RELEASE County Enst/West Line Unit Letter Section Township Range Feet from the North/South Line Feet from the Eddy 1515 West 10 **25**S 29E 1235 South N Longitude Latitude NATURE OF RELEASE Volume of Release < 15 bbls Volume Recovered Type of Release Minor Release 05/08/18 Date and Hour of Discovery Date and Hour of Occurrence Source of Release Produced Water If YES, To Whom? Was Immediate Notice Given? Robert Kasuboski - New Mexico State Land Office ☑ Yes ☐ No ☐ Not Required Date and Hour 05/08/18 @ 12:00 p.m. By Whom? Kyle Berend If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Produced fluids have leaked from a saltwater disposal line that was struck by an unknown truck/driver. It was not reported to us at the time of the incident. This individual attempted to repair this line but was unsuccessful. He/she still failed to report the incident to Bettis, Boyle & Stovall. Describe Area Affected and Cleanup Action Taken. The release had leaked along the existing road. A small amount of saltwater contaminated an area around leak. We will dig up and replaced contaminated arca. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or fite certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Sin Kyle Berend Printed Name: Expiration Date: Approval Date: Title: Regulatory Analyst Conditions of Approval: E-mail Address: kberend@bbsoil.com Bee attached Attached 🗖 (940)549-0780 Phone: 05/08/18

Attach Additional Sheets If Necessary

office 2 @ sesi-rm.com

4 x

### 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 water right file.)

(R=POD has been replaced, O=orphaned,

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

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

(In feet)

	POD Sub-		^	Q (	,					Danth	D#-	Water
POD Number	Code basin	County	-	-	-	Tws	Rng	х	Υ			Water Column
C 01337	С	ED		2 1	30	25S	29E	591926	3552642* 🌑	180	30	150
C 01880	С	ED	3	3 2	06	25S	29E	592161	3558605* 🍪	85	40	45
C 02371	С	ED		2 3	15	25S	29E	596741	3555106* 🍪	200	60	140
C 02459	С	ED	4	4 1	02	25S	29E	598422	3558663* 🍪	150		
C 02518	С	ED		3 4	80	25S	29E	593895	3556300* 🍪	462		
C 02680	CUB	ED		2 3	15	25S	29E	596741	3555106* 🍪	200		

Average Depth to Water:

Minimum Depth: 30 feet

Maximum Depth: 60 feet

#### Record Count: 6

PLSS Search:

Township: 25S Range: 29E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or sultability for any particular purpose of the data.

#### **Appendix C – Analytical Results**



November 14, 2018

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: PICKETT

Enclosed are the results of analyses for samples received by the laboratory on 11/07/18 16:30.

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240 Fax To: (575) 393-4388

Received: 11/07/2018 Sampling Date: 11/07/2018

Reported: 11/14/2018 Sampling Type: Soil

Project Name: PICKETT Sampling Condition: Cool & Intact
Project Number: BBS-18-002 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: NOT GIVEN

#### Sample ID: SP #1 (H803225-01) BTEX 8021B mg/kg

DILX GOZID	11197	Ng .	Alluly20	u by. 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/12/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/12/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/12/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	11/14/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/12/2018	ND	177	88.6	200	0.0130	
DRO >C10-C28*	2120	50.0	11/12/2018	ND	210	105	200	1.33	
EXT DRO >C28-C36	545	50.0	11/12/2018	ND					
Surrogata: 1 Chlorocetana	73.50	D/2	)						

Surrogate: 1-Chlorooctane 73.5 % 41-142
Surrogate: 1-Chlorooctadecane 163 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 11/07/2018 Sampling Date: 11/07/2018

Reported: 11/14/2018 Sampling Type: Soil

Project Name: **PICKETT** Sampling Condition: Cool & Intact Sample Received By: Project Number: BBS-18-002 Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP #2 (H803225-02)

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	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/14/2018	ND	416	104	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	11/12/2018	ND	177	88.6	200	0.0130	
DRO >C10-C28*	<10.0	10.0	11/12/2018	ND	210	105	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	11/12/2018	ND					
Surrogate: 1-Chlorooctane	79.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.4	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 11/07/2018

Reported: 11/14/2018

Project Name: PICKETT
Project Number: BBS-18-002
Project Location: NOT GIVEN

Sampling Date:

11/07/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SP #3 (H803225-03)

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	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	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	11/12/2018	ND	177	88.6	200	0.0130	
DRO >C10-C28*	<10.0	10.0	11/12/2018	ND	210	105	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	11/12/2018	ND					
Surrogate: 1-Chlorooctane	83.4	% 41-142							
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 11/07/2018 Sampling Date: 11/07/2018

Reported: 11/14/2018 Sampling Type: Soil

Project Name: PICKETT Sampling Condition: Cool & Intact
Project Number: BBS-18-002 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

#### Sample ID: SP #4 (H803225-04)

BTEX 8021B

DILX OUZID	ıııg,	Ng .	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.8-14.	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	416	104	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	11/12/2018	ND	177	88.6	200	0.0130	
DRO >C10-C28*	<10.0	10.0	11/12/2018	ND	210	105	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	11/12/2018	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142							
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 11/07/2018

Reported: 11/14/2018

Project Name: PICKETT
Project Number: BBS-18-002
Project Location: NOT GIVEN

Sampling Date: 11/07/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: SP #5 (H803225-05)

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	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	11/14/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/12/2018	ND	177	88.6	200	0.0130	
DRO >C10-C28*	6450	50.0	11/12/2018	ND	210	105	200	1.33	
EXT DRO >C28-C36	1720	50.0	11/12/2018	ND					
Surrogate: 1-Chlorooctane	83.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	344	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

# 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Salutions		
Project Manager: Rob Allen	8/4/70	ANALYSIS REQUEST
703 East Clint	元の供	
000.	Company: Same	
City: Hobbs State: NM Zip: 88240		
7-0510 Fax #: 575 3	Address:	
	City:	
Project Name: Drokett		<i>X</i>
Denicat Landing.	State: Zip:	(2,
2	Phone #:	5 (
Sampler Name: Soy HUS	Fax #:	'/G
FOR LAB USE ONLY	, and 11.	
MP.	X PRESERV, SAMPLING	(BC
Lab I.D.  Sample I.D.  RAB OR (C)OI  DITAINERS DUNDWATER  STEWATER	DGE ER: D/BASE: COOL ER:	BIE)
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SPAS SPAS	11.65	
x 13 1438 1438	11:46	
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PLEASE NOTE: Uability and Damages. Cardinat'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 the client for the	hract or tort, shall be limited to the amount paid by the client for the	
affiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Relinquished By:	ons, loss of use, or loss of profits incurred by client, its subsidiaries, aim is based upon any of the above stated reasons or otherwise.	cause
5	Phone Result:	Yes No Add'I Phone #:
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(Auciemana)	dition CHECKED BY:	
Sampler - UPS - Bus - Other: 0,5 747 Pres Pres	(es (Millale)	

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January 14, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BBS PICKETT DRAW

Enclosed are the results of analyses for samples received by the laboratory on 01/08/19 14:55.

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: TT - 1 2' (H900045-01)

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	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	01/10/2019	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	01/10/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/10/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/10/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.8	% 37 6-14	17						

Surrogate: 1-Chlorooctadecane 76.8 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact BBS - 18 - 002 Sample Received By: Project Number: Tamara Oldaker

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

#### Sample ID: TT - 1 4' (H900045-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	< 0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	< 0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42000	16.0	01/10/2019	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	01/10/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/10/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/10/2019	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	80.1	% 37.6-14	17						

Surrogate: 1-Chlorooctadecane 80.1 % 37.6-147

\*=Accredited Analyte Cardinal Laboratories

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Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: TT - 1 5' (H900045-03)

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	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	01/10/2019	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	01/10/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/10/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/10/2019	ND					
Surrogate: 1-Chlorooctane	84.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.9	% 37.6-14	7						

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Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact
Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

#### Sample ID: TT - 1 7' (H900045-04)

RTFY 8021R

BIEX 8021B	mg/	кg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/10/2019	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	01/10/2019	ND	216	108	200	8.17	
DRO >C10-C28*	<10.0	10.0	01/10/2019	ND	204	102	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/10/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142							
Surrogate: 1-Chlorooctadecane	77.6	% 37.6-14	7						

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703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact
Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

#### Sample ID: TT - 1 8' (H900045-05)

RTFY 8021R

BIEX 8021B	mg/	кg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	87.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	84.1	% 37.6-14	7						

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Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact
Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NONE GIVEN

mg/kg

#### Sample ID: TT - 1 10' (H900045-06)

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.8	% 37.6-14	7						

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact BBS - 18 - 002 Sample Received By: Project Number: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: TT - 1 12' (H900045-07)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.4	% 37 6-14	7						

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Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: TT - 1 17' (H900045-08)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact
Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NONE GIVEN

#### Sample ID: SP - 7 SOUTH WALL (H900045-09)

mg/kg

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	< 0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	< 0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	76.5 9	% 41-142	1						

Surrogate: 1-Chlorooctane 76.5 % 41-142
Surrogate: 1-Chlorooctadecane 72.8 % 37.6-147

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703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker BBS - 18 - 002

Project Location: NONE GIVEN

#### Sample ID: SP - 8 WEST WALL (H900045-10)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	•						

Surrogate: 1-Chlorooctadecane 80.2 % 37.6-147

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Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact
Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NONE GIVEN

mg/kg

#### Sample ID: SP - 9 EAST WALL (H900045-11)

BTEX 8021B

DIEX COLLD	9/	9	Andryzo	a 27. 11.5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/10/2019	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	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142							

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

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703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

#### Sample ID: SP - 10 NORTH WALL (H900045-12)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	?						
Summanta 1 Chlorocatadasana	90.0	0/ 27 6 1 4	7						

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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Safety & Environmental Solutions Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 01/08/2019 Sampling Date: 01/07/2019

Reported: 01/14/2019 Sampling Type: Soil

Project Name: BBS PICKETT DRAW Sampling Condition: Cool & Intact
Project Number: BBS - 18 - 002 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NONE GIVEN

mg/kg

#### Sample ID: SP - 11 BOTTOM 4' (H900045-13)

BTEX 8021B

DIEX COLLD	9/	~ <del>9</del>	Allalyzo	u by: 1115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2019	ND	2.03	102	2.00	3.42	
Toluene*	<0.050	0.050	01/11/2019	ND	2.15	108	2.00	2.89	
Ethylbenzene*	<0.050	0.050	01/11/2019	ND	2.18	109	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/11/2019	ND	6.67	111	6.00	2.50	
Total BTEX	<0.300	0.300	01/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	01/10/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
Surrogate: 1-Chlorooctane	91.3 9	% 41-142	!						

Surrogate: 1-Chlorooctane 91.3 % 41-142
Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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#### **Notes and Definitions**

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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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Safety and Environmental Solutions	hutions	0,171/6		ANALYSIS REQUEST	
Project Manager:			P.O. #:			
Address: 7(	703 East Clinton, PO Box 1613		Company: Same			
	Hobbs State: NM	Zip: 88240	Attn:			
#:	575 397-0510 Fax #: 575 3	575 393-4388	Address:	200		
Project #: PBS	7-18-002 Project Owner		City:	XXX		
Project Name:	1385 PILLUA D		State: Zip:	(d		
Project Location:	<b></b>		Phone #:			
Sampler Name:			Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	8		
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Lab I.D.	Sample I.D.	AB OR (C NTAINER UNDWAT TEWATEI	/BASE: COOL	1P BID		
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PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall (	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service, in no event shall Cardinal be flable for incidental or consequental damages, including without furnitation, business interruptions, loss of use, or loss of profits incurred by Gent, its subsidiaries, service, in no event shall Cardinal be flable for incidental or consequental damages, including without furnitation, business interruptions, loss of use, or loss of profits incurred by Gent, its subsidiaries, service, in no event shall Cardinal be flable for incidental or consequental damages, including without furnitation, business interruptions, loss of use, or loss of profits incurred by Gent, its subsidiaries, service, in no event shall Cardinal be flable for incidental or consequental damages, including without furnitation, business interruptions, loss of use, or loss of profits incurred by Gent, its subsidiaries, services or loss of profits incurred by Gent, its subsidiaries, services or loss of profits incurred by Gent, its subsidiaries, and the consequence of the con	any claim artsing whether based in contract deemed waived unless made in writing and y without limitation, business interruptions,	or tort, shall be limited to the amount paid by received by Cardinal within 30 days after coloss of use, or loss of profits incurred by citera	amount paid by the client for the 30 days after completion of the applicable norther to the subsidiaries, and the subsidiaries, and the subsidiaries of the subsidiari		
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Delivered By:	Circle One)	Sample Condition	on CHECKED BY:			
Sampler - HPS	Bus Other:	Cool Intact  Tres Tres	(Initials)			
	200	NO L NO	Y			



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Names. Safety and Environmental Solutions  Project Manager: Bob Allen  Address: 703 East Clinton, PO Box 1613  Address: 976 397-0510  Project Manager: Bob Allen  Project Manager: Bob Mana
--

## Appendix D Site Photographs

Bettis, Boyle, & Stovall Pickett Draw Federal Saltwater Disposal Line



Lease Road traveling East from site



Impacted area

