

**File under review. Received by:** Dylan Rose-Coss 5/14/2019 Breitburn Management Jalmat Trunk Line Closure Report

Section 14, Township 22S, Range 35E Lea County, New Mexico 1RP-4645

July 18, 2017



Prepared for:

Breitburn Management P.O. BOX 678 Andrews, TX 79714

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
Thomas Haigood	Breitburn	(432) 967-7266	
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 Breitburn to assess a spill on the Jalmat trunkline concerning a twenty five (25) bbls. oil and sixty (60) bbls. water release. This site is situated in Lea County, Section 14, Township 22S, and Range 35E.

According to the C-141: approximately twenty five (25) barrels of oil and sixty (60) barrels of water was released when the trunk line going to the battery was shot out. A pasture next to the location was affected. All standing fluid was picked up and samples were collected. A remediation contractor was contacted.

# 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 185' 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	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	X
water source; or less than 1000 feet from all	No	0 points	
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)			20

# V. Work Performed

On March 28, 2017, SESI personnel were onsite at the Brietburn Jalmat Trunk line leak to obtain soil samples from the bottom of the excavation and field test for Chlorides and TPH. Nine soil samples were obtained from different locations and field test for Chlorides. All field test results were greater the 1000 ppm. Soil samples were properly preserved and taken to the SESI lab due to the high winds. Four TPH field test were performed. Soil samples for TPH were numbers SP-4, SP-5, SP-7 and SP-9 where visible Hydro carbons were seen. Soil sample SP-9 TPH test result was 253 ppm and all others were under 100 ppm. The excavation and sample points were mapped using the Juno 3B. The field test results are presented in the table below:

Breitburn Jalmat Trunk Line Field Test Results: 3-28-2017					
SAMPLE ID	Chlorides				
SP-1	5736				
SP-2	1332				
SP-3	6732				
SP-4	2604				
SP-5	2408				
SP-6	4484				
SP-7	4484				
SP-8	7288				
SP-9	1240				

On March 31, 2017, SESI personnel were onsite at the Brietburn Jalmat Trunkline With Blade Trackhoe w/operator and Brietburn personnel to install test trenches to determine vertical extent of contamination. Test trench ten was installed on the southwest side three feet off the pipeline. The test trench was installed to the total depth that the trackhoe could dig at twenty two feet. Soil samples were grabbed at seven, fifteen, feventeen and twenty two feet, and field tested for Chlorides. The trench was then backfilled. Test trench six was installed in the same area of SP-6. The test trench was installed to the total depth that the track hoe could dig, twenty four feet. Soil samples were grabbed at four, ten, fourteen, sixteen, eighteen, twenty, twenty two and twenty four feet. Soil samples were field tested for Chlorides, and the trench was backfilled. Test trench Eight was installed on the area of SP-8 to the depth of ten feet. Soil samples were grabbed at four, six, eight and ten feet and field tested for Chlorides. Photos were taken of the test trenches. All soil 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 SM4500CI-B). The field test and lab results are recapped in the following tables:

Breitburn Jalmat Trunk Line Soil Sample Results: Field Testing: 4-31-2017					
SAMPLE ID	Chlorides				
TT-6 @ 4ft	1656				
TT-6 @ 10ft	2604				
TT-6 @ 14ft	1152				
TT-6 @ 16ft	1784				
TT-6 @ 18ft	1332				
TT-6 @ 20ft	1540				
TT-6 @ 22ft	1920				
TT-6 @ 24ft	1920				
TT-8 @ 4ft	<124				
TT-8 @ 6ft	352				
TT-8 @ 8ft	124				
TT-8 @ 10ft	<124				
TT-10 @ 7ft	5736				
TT-10 @ 15ft	2408				
TT-10 @ 17ft	2604				
TT-10 @ 22ft	2232				

	Breitburn Jalmat Trunk Line								
		Soil Samp	le Results: C	ardinal Labo	ratories 4-12	2-2017			
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	Chlorides	TPH	TPH	EXT
			benzene	Xylenes	BTEX		GRO	DRO	DRO
BH-1 24-25'	<0.050	<0.050	<0.062	<0.150	<0.300	1600	<10.0	<10.0	<10.0
BH-1 29-30'	<0.050	<0.050	<0.067	<0.150	<0.300	2960	<10.0	<10.0	<10.0
BH-1 39-40'	<0.050	<0.050	<0.070	<0.150	<0.300	1960	<10.0	<10.0	<10.0
BH-1 49-50'	<0.050	<0.050	<0.070	<0.150	<0.300	656	<10.0	<10.0	<10.0
BH-1 54-55'	<0.050	<0.050	<0.071	<0.150	<0.300	416	<10.0	<10.0	<10.0
BH-1 59-60'	<0.050	<0.050	<0.074	<0.150	<0.300	544	<10.0	<10.0	<10.0
BH-1 64-65'	<0.050	<0.050	<0.072	<0.150	<0.300	240	<10.0	<10.0	<10.0
BH-2 5'	<0.050	<0.050	<0.072	<0.150	<0.300	48.0	<10.0	<10.0	<10.0
BH-2 14-16'	<0.050	<0.050	<0.071	<0.150	<0.300	80.0	<10.0	<10.0	<10.0
BH-2 24-26'	<0.050	<0.050	<0.072	<0.150	<0.300	80.0	<10.0	<10.0	35.7
BH-3 4-6'	<0.050	<0.050	<0.072	<0.150	<0.300	1230	<10.0	<10.0	<10.0
BH-3 9-11'	<0.050	<0.050	<0.050	<0.150	<0.300	2720	<10.0	<10.0	22.3
BH-3 19-20'	<0.050	<0.050	<0.050	<0.150	<0.300	2440	<10.0	<10.0	<10.0
BH-3 24-25'	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	<10.0	<10.0
BH-3 29-30'	<0.050	<0.050	<0.050	<0.150	<0.300	112	<10.0	<10.0	<10.0
BH-3 34-35'	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	<10.0	<10.0	<10.0

On July 06, 2017, SESI submitted the Work-Remediation Plan to the NMSLO, as well as the NMOCD parties of concern for approval. Both parties concurred and agreed to the plan.

On July 14, 2017, SESI personnel were onsite to collect samples of excavation sidewalls and excavation bottom. The location on both sides of the buried line has been excavated to a depth approaching 4 ft. with near vertical sidewalls. Boyer used a measuring wheel to lay out a small grid system to determine excavation bottom locations for sampling. The bottom samples on the west side were approximately 30 ft. apart while those on the east side were about 40 ft. apart. Four bottom samples were taken on each side of the buried line. Due to very hard consolidated caliche at bottom and on sidewalls, samples were collected used a rock hammer to break and remove sufficient pieces of caliche to obtain unconsolidated loose samples for field testing and lab submittal. The sidewall samples were field tested to make a recommendation as to the need for additional excavation. Following collection of the samples the sample locations were mapped using a Juno GPS handheld device. Also mapped were the outlines of the west and east excavations (with the exception of the north entrance ramp to the west excavation which was not further excavated). At the completion of the mapping, photos and a video were taken of the site. All soil 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 300.0). The field test and lab results are recapped in the following tables:

Breitburn Jalmat Trunk Line Soil Sample Results: Cardinal Laboratories 7-14-2017									
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	Chlorides	ТРН	ТРН	EXT
			benzene	Xylenes	BTEX		GRO	DRO	DRO
WSW-1	<0.050	<0.050	<0.050	<0.150	<0.300	128	<10.0	<12.6	<10.0
WSW-2	<0.050	<0.050	<0.050	<0.150	<0.300	352	<10.0	<10.0	<10.0
ESW-1	<0.050	<0.050	<0.050	<0.150	<0.300	1360	<10.0	<10.0	<10.0
ESW-2	<0.050	<0.050	<0.050	<0.150	<0.300	288	<10.0	<10.0	<10.0
ESW-3	<0.050	<0.050	<0.050	<0.150	<0.300	32	<10.0	<10.0	<10.0
WSP-1	<0.050	<0.050	<0.050	<0.150	<0.300	704	<10.0	<10.0	<10.0
WSP-2	<0.050	<0.050	<0.050	<0.150	<0.300	544	<10.0	<10.0	<10.0
WSP-3	<0.050	<0.050	<0.050	<0.150	<0.300	432	<10.0	<10.0	<10.0
WSP-4	<0.050	<0.050	<0.050	<0.150	<0.300	512	<10.0	<10.0	<10.0
ESP-1	<0.050	<0.050	<0.050	<0.150	<0.300	912	<10.0	<10.0	<10.0
ESP-2	<0.050	<0.050	<0.050	<0.150	<0.300	736	<10.0	<10.0	<10.0
ESP-3	<0.050	<0.050	<0.050	<0.150	<0.300	464	<10.0	<10.0	<10.0
ESP-4	<0.050	<0.050	<0.050	<0.150	<0.300	1090	<10.0	<10.0	<10.0

On July 21, 2017, SESI personnel was onsite to sample north sidewall of east excavation following additional excavation by Tex-Mex contractor. Samples were collected using a rock hammer to break and remove sufficient pieces of caliche to obtain unconsolidated loose samples for field testing and possible lab submittal. The sidewall was sampled first at midpoint between flow lines and the dug trench. Moved about 3 ft. west of midpoint and resampled: Field test ESW-5, 2452 ppm Cl. Moved about 22 ft. east of the midpoint and sampled: Field test ESW-6, <128 ppm Cl.

Samples were properly preserved. Additional sampling to continue the next work day.

On July 24, 2017, SESI personnel was onsite to sample north sidewall of east excavation following additional excavation by Tex-Mex contractor. Took sample at midpoint after some digging: ESW-7, 2976 ppm Cl. Samples were collected using a rock hammer to break and remove sufficient pieces of caliche to obtain unconsolidated loose samples for field testing and possible lab submittal. At ~ 9:00 rancher/landowner Brad Blevins arrives and inquires about progress and watches chloride test. He leaves about 30 minutes later. Continued digging vicinity ESW-7 and resample: ESW-8, <128 ppm Cl, save for lab analysis. Move west and sample after digging additional material: ESW-9, <128 ppm Cl, save for lab analysis. Move west to edge of ramp and sample after digging: ESW-10, <128 pm Cl, save for lab analysis. Took photos and make GPS measurements at ESW-8, -9 and -10. Pack gear and leave site at 1 p.m. to return Hobbs. At Hobbs, pack four clean samples for delivery to Cardinal including sample at ESW-6 from last Friday.

Breitburn Jalmat Trunk Line Soil Sample Results: Cardinal Laboratories 7-21-2017									
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	Chlorides	TPH	TPH	EXT
			benzene	Xylenes	BTEX		GRO	DRO	DRO
ESW-6	<0.050	<0.050	<0.050	<0.150	<0.300	50.6	<10.0	<12.6	<10.0
ESW-8	<0.050	<0.050	<0.050	<0.150	<0.300	22.3	<10.0	<10.0	<10.0
ESW-9	<0.050	<0.050	<0.050	<0.150	<0.300	43.2	<10.0	<10.0	<10.0
ESW-10	<0.050	<0.050	<0.050	<0.150	<0.300	35.4	<10.0	<10.0	<10.0

# VI. Request for Closure

Based on the aforementioned sidewall and bottom soil analyses: Tex Mex drilling, Inc. installed a 30 mil. liner in the excavated area at a depth of 4' bgs. Approximately 528 yards of soil were disposed of at Sundance Services (an NMOCD approved facility). The area was backfilled with farm grade topsoil, and restored to dunal like feature. The area was then planted with a mixture of prairie grass seed comparable to BLM #3 seed mixure. This concludes remedial activity for this location.

Based on depth to groundwater for this area, remedial excavation of soil, disposal of impacted soil, and restoration of site in accordance with the approved remediation plan, SESI on behalf of Breitburn, LP respectfully requests closure of the regulatory file for this incident.

# 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



Figure 2 Site Plan



Appendix A C-141 State of New Mexico Oil Conservation Division

Incident ID	NOY1707658025
District RP	1RP-4645
Facility ID	
Application ID	

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>185 (ft bgs)</u>
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗴 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🕱 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes K No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗴 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141	State of New Mexico	)	Incident ID	NOV1707658025
Page 4	Oil Conservation Divisi	ion	District RP	NOY1707658025
			Facility ID	1RP-4645
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name:	nformation given above is true and complete t are required to report and/or file certain releas onment. The acceptance of a C-141 report by stigate and remediate contamination that pose e of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operation of a C-141 report does not relieve the operat	se notifications and perform y the OCD does not relieve a threat to groundwater, su	n corrective actions for re the operator of liability s irface water, human healt mpliance with any other f SE Specialist	leases which may endanger hould their operations have h or the environment. In
Received by:		Date:		

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	NOY1707658025
District RP	1RP-4645
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	ncluded in the plan.								
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>									
Deferral Requests Only: Each of the following items must be conf	irmed as part of any request for deferral of remediation.								
Contamination must be in areas immediately under or around produce of a construction.	duction equipment where remediation could cause a major facility								
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.								
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file cer which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD ac responsibility for compliance with any other federal, state, or local law Printed Name: Thomas Haigood Signature:	tain release notifications and perform corrective actions for releases be of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ceptance of a C-141 report does not relieve the operator of								
email: <u>Thomas.haigood@mavorickresqueses.com</u> Mavresources.com	Telephone: (432) 701-7802								
OCD Only									
Received by:	Date:								
Approved Approved with Attached Conditions of A	oproval 🗌 Denied 🔲 Deferral Approved								
Signature:	Date:								

State of New Mexico Oil Conservation Division

Incident ID	NOY1707658025
District RP	1RP-4645
Facility ID	
Application ID	

# Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Thomas Haigood	Title: Permian HSE Specialist
Signature: MIL	Date: 05/09/2019
email: Thomas.hagood@m <del>averickresources.com</del> Mauresources.com	Telephone: (432)701-7802

OCD Only

Received by:

Date: \_\_\_\_\_

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

Closure Approved by:	Date:
Printed Name:	Title:

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, C=the file is closed)	(quarte				IE 3=SW	,	3 UTM in meters)		(In feet	t)
POD Number	POD Sub- Code basin C		QQQ 64 16 4	-	: Tws	Rng	x	Y	-	-	Water Column
CP 00593 POD1	CP	LE			22S		650422	3587591* 🌍	62		
CP 00594 POD1	CP	LE	2 1	34	22S	35E	654553	3580819* 🌍	98		
CP 00595 POD1	CP	LE	22	20	22S	35E	652089	3584000* 🌍	96		
CP 00753		LE	22	14	22S	35E	656891	3585687* 🌍	215	185	30
								Average Depth to	o Water:	185 f	eet
								Minimun	n Depth:	185 f	eet
								Maximun	n Depth:	185 f	eet
Record Count: 4											

# PLSS Search:

Township: 22S Range: 35E

\*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 suitability for any particular purpose of the data.

# Appendix C Analytical Results



April 10, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-17-002

Enclosed are the results of analyses for samples received by the laboratory on 04/03/17 10:57.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: TT- 10 7' (H700868-01)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 72-148	3						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	04/05/2017	ND	432	108	400	3.64	
TPH 8015M	mg,	′kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	15.0	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	36.5	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	94.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.1	% 34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: TT- 10 15' (H700868-02)

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	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	3200	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	23.7	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	25.5	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	99.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	107 9	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: TT- 10 17' (H700868-03)

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	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	3680	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	27.8	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	32.3	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	107	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 9	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: TT- 10 22' (H700868-04)

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	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 72-148	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	2560	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	<10.0	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	106	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	115	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 4' (H700868-05)

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	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 72-148	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	2160	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	<10.0	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	117 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	123 9	34.7-15	7						

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Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 10' (H700868-06)

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	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	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	3280	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	<10.0	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	89.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.3	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 14' (H700868-07)

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	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 72-148	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	1420	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	<10.0	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	99.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	107 :	34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 16' (H700868-08)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 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	2000	16.0	04/05/2017	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	04/04/2017	ND	203	101	200	1.44	
DRO >C10-C28	<10.0	10.0	04/04/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	04/04/2017	ND					
Surrogate: 1-Chlorooctane	95.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 18' (H700868-09)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 72-148	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	1720	16.0	04/05/2017	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	04/05/2017	ND	203	101	200	1.44	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	220	110	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	96.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 20' (H700868-10)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 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	2000	16.0	04/05/2017	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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	90.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.5	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 22' (H700868-11)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 72-148	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	2560	16.0	04/05/2017	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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	102	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	105	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 6 24' (H700868-12)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	2400	16.0	04/05/2017	ND	448	112	400	3.51	QM-07
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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	120 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	121 9	34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 8 4' (H700868-13)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 72-148	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	112	16.0	04/05/2017	ND	448	112	400	3.51	
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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	105	28.3-16	4						
Surrogate: 1-Chlorooctadecane	107 :	34.7-15	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

# Sample ID: TT- 8 6' (H700868-14)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	416	16.0	04/05/2017	ND	448	112	400	3.51	
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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	91.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.9	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: TT-8 8' (H700868-15)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 72-148	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	112	16.0	04/05/2017	ND	448	112	400	3.51	
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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	100	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	105	% 34.7-15	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2017	Sampling Date:	03/31/2017
Reported:	04/10/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

#### Sample ID: TT-8 10' (H700868-16)

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	04/05/2017	ND	1.94	96.8	2.00	1.06	
Toluene*	<0.050	0.050	04/05/2017	ND	1.89	94.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	1.92	96.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	5.48	91.3	6.00	1.38	
Total BTEX	<0.300	0.300	04/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	112	16.0	04/05/2017	ND	448	112	400	3.51	
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	04/05/2017	ND	196	98.1	200	3.76	
DRO >C10-C28	<10.0	10.0	04/05/2017	ND	199	99.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	04/05/2017	ND					
Surrogate: 1-Chlorooctane	114 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	112 9	34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whatscever 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 those of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.6°C	Time:	Relinquished By: Date: R	Cate: (03/17)	those for negligence and any other cause whatsoever shall be de final be liable for incidental or consequential damages, including w out of the related to the performance of services hereunder by Car	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any of	1 1 1 1 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	1 + + 1 2-2 2	0 24 0) 0-11 0	2 2 2 - 6 - 4 A O	77 4	1	27-10 1779	19140 770	H700 868	Lab I.D. Sample I.D.		FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: BR ( (7-00 2 Project Owner:	5 397-0510 Fax #: 575	City: Hobbs State: NM 2	Address: 703 East Clinton, PO Box 1613	Project Manager: Bob Allen	100	57		Laboratorie	CARDINA	
Sample Condition CHECKED BY: Cool Intact Yes Yes (hittals) No No No	C	Received By:	A development of provident report of the stated rest	erned waive unless made in writing and received by Cardinal within 30 days after comp tithout limitation, business interruptions, loss of use, or loss of profits incurred by client, it dinal reparatless of whether hund fain is bened unso more than the structure of the faint of the structure of the	11   Y     Y   03   31   20			x		5 01/51	50000	S S S S S S S S S S S S S S S S S S S	( X 62131	# CON GROU WAST SOIL OIL SLUDO OTHEI ACID/E ICE / C OTHEI	ITAINE INDWA EWAT GE R : BASE: COOL	ATER	MATRIX PRESERV. SAMPLING	Fax #:	#	State: Zip:	City:	393-4388 Address:		Company: Same	P.O. #:	lutions BILL TO	40		D N		1
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Page 19 of 20

Delivered By: (Circle One)       Sample Condition         Sampler - UPS - Bus - Other:       Solution         Cool       Intact         No       No	Date: Time: Time:	Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in those for negligence and any other cause whatsoever shall be deemed waived unless made in vertinal be liable for indental or consequental damages, including without limitation, business inter out of or related to the performance of services hereunder by Cardinal, resardless or whether set out of or related to the performance of services hereunder by Cardinal, resardless or whether set		5 11- 5 0 17 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TT-S 4R GI	-	NT-6 22 fr	GROL WAST SOIL OIL SLUDO	and the second se	POR LAB USE ONLY	Sampler Name:	Project Location:		Project #: 15 10 - 7 - 00 7 Project Owner:	575 393-4	Address: 703 East Clinton, PO Box 1613	Project Manager: Bob Allen	Company Name: Safety and Environmental Solutions	57		Laboratories	CARDINAL
ition CHECKED BY: es (1011tijais) to 10	Image: State Creating of Otherwise.     Yes     No     Add'l Phone #:       Fax Result:     Yes     No     Add'l Phone #:       REMARKS:     REMARKS:	act or tort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the applicable ts, loss of use, or loss of profits incurred by client, its subsidiaries, in its best more and the profits incurred by client, its subsidiaries,	05/51		03	53/31 (330 × 7	x 53131 1245 x X X	OTHE	R : BASE: BOOL	PRESERV. SAMPLING	Fax#:	# 1/5	Zip:		SSS:	Company: Same		BILL TO ANALYSIS DECLIEST	2-2	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		



May 12, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-17-002

Enclosed are the results of analyses for samples received by the laboratory on 05/04/17 16:55.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 1 24'-25' (H701208-01)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/08/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.062	0.050	05/08/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 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	1600	16.0	05/08/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	86.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.1	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

# Sample ID: BH - 1 29'-30' (H701208-02)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/08/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.067	0.050	05/08/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 72-148	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	2960	16.0	05/09/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	75.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.5	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

# Sample ID: BH - 1 39'-40' (H701208-03)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.070	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	1960	16.0	05/09/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	78.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

# Sample ID: BH - 1 49'-50' (H701208-04)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.070	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	656	16.0	05/09/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	61.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.8	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: BH - 1 54'-55' (H701208-05)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.071	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 72-148	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	416	16.0	05/09/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	80.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.3	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: BH - 1 59'-60' (H701208-06)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.074	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 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	544	16.0	05/09/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	77.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.5	% 34.7-15	7						

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Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

#### Sample ID: BH - 1 64'-65' (H701208-07)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.072	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 72-148	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	240	16.0	05/09/2017	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	75.4	28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.5	% 34.7-15	7						

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Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 2 5' (H701208-08)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.072	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 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	05/09/2017	ND	448	112	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	05/06/2017	ND	165	82.4	200	3.75	
DRO >C10-C28	<10.0	10.0	05/06/2017	ND	183	91.5	200	7.50	
EXT DRO >C28-C36	<10.0	10.0	05/06/2017	ND					
Surrogate: 1-Chlorooctane	72.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.9	% 34.7-15	7						

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Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 2 14'-16' (H701208-09)

BTEX 8021B	mg/	′kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.071	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	80.0	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	192	96.2	200	0.280	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	215	108	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	85.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.3	% 34.7-15	7						

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Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 2 24'-26' (H701208-10)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.072	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	80.0	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	192	96.2	200	0.280	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	215	108	200	1.40	
EXT DRO >C28-C36	35.7	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	89.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.3	% 34.7-15	7						

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Received:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 3 4'-6' (H701208-11)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.29	114	2.00	1.36	
Toluene*	<0.050	0.050	05/09/2017	ND	2.23	111	2.00	0.391	
Ethylbenzene*	0.072	0.050	05/09/2017	ND	2.16	108	2.00	0.994	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	6.38	106	6.00	1.26	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 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	1230	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	192	96.2	200	0.280	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	215	108	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	87.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.8	% 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:	05/04/2017	Sampling Date:	04/27/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

# Sample ID: BH - 3 9'-11' (H701208-12)

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	05/08/2017	ND	2.12	106	2.00	0.747	
Toluene*	<0.050	0.050	05/08/2017	ND	1.95	97.5	2.00	0.722	
Ethylbenzene*	<0.050	0.050	05/08/2017	ND	1.91	95.3	2.00	0.777	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	5.37	89.5	6.00	0.512	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	2720	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	192	96.2	200	0.280	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	215	108	200	1.40	
EXT DRO >C28-C36	22.3	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	87.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.8	% 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:	05/04/2017	Sampling Date:	05/02/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 3 19'-20' (H701208-13)

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	05/08/2017	ND	2.12	106	2.00	0.747	
Toluene*	<0.050	0.050	05/08/2017	ND	1.95	97.5	2.00	0.722	
Ethylbenzene*	<0.050	0.050	05/08/2017	ND	1.91	95.3	2.00	0.777	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	5.37	89.5	6.00	0.512	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	2440	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	192	96.2	200	0.280	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	215	108	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	74.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.2	% 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:	05/04/2017	Sampling Date:	05/02/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 3 24'-25' (H701208-14)

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	05/08/2017	ND	2.12	106	2.00	0.747	
Toluene*	<0.050	0.050	05/08/2017	ND	1.95	97.5	2.00	0.722	
Ethylbenzene*	<0.050	0.050	05/08/2017	ND	1.91	95.3	2.00	0.777	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	5.37	89.5	6.00	0.512	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	160	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	193	96.4	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	82.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.4	% 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:	05/04/2017	Sampling Date:	05/02/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 3 29'-30' (H701208-15)

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	05/08/2017	ND	2.12	106	2.00	0.747	
Toluene*	<0.050	0.050	05/08/2017	ND	1.95	97.5	2.00	0.722	
Ethylbenzene*	<0.050	0.050	05/08/2017	ND	1.91	95.3	2.00	0.777	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	5.37	89.5	6.00	0.512	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 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	112	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	193	96.4	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	89.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.9	% 34.7-15	7						

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Received:	05/04/2017	Sampling Date:	05/02/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: BH - 3 34'-35' (H701208-16)

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	05/08/2017	ND	2.12	106	2.00	0.747	
Toluene*	<0.050	0.050	05/08/2017	ND	1.95	97.5	2.00	0.722	
Ethylbenzene*	<0.050	0.050	05/08/2017	ND	1.91	95.3	2.00	0.777	
Total Xylenes*	<0.150	0.150	05/08/2017	ND	5.37	89.5	6.00	0.512	
Total BTEX	<0.300	0.300	05/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 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	80.0	16.0	05/09/2017	ND	448	112	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	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	<10.0	10.0	05/09/2017	ND	193	96.4	200	5.15	
EXT DRO >C28-C36	<10.0	10.0	05/09/2017	ND					
Surrogate: 1-Chlorooctane	86.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.7	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### 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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	57	191 <b>9</b>	
Company Name:	Safety and Environmental Solutions	BILL TO	ANALYSIS REQUESI
Project Manager:		P.O. #:	
Address: 703	3 East Clinton, PO Box 1613	Company: Same	
	Hobbs State: NM Zip: 88240	Attn:	
le #:	-0510 F	Address:	
Project #: BRE	t00. L1-	City:	
Project Name:		State: Zip:	
Project Location:		Phone #:	
Sampler Name:	LACIA BOYCA	Fax #:	30
FOR LAB USE ONLY		MATRIX PRESERV. SAMPLING	Y.
Lab I.D.	Sample I.D. AB OR (C)OMP. NTAINERS UNDWATER TEWATER	ER : /BASE: COOL	TPH B Ch
BODIOLA	# CO GRO		
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DI FASE NOTE: I ability and	10 $\mathbb{R}4 \to \mathcal{A}-\mathcal{A}$ $\mathbb{R}1$ $\mathbb{R}1$ $\mathbb{R}4 \to \mathcal{A}-\mathcal{A}$ $\mathbb{R}1$ $\mathbb$	X $Y$ $X$ $Y$ $Y$ $Y$ $Y$ $Y$ $Y$ $X$ $Y$	
analyses. All claims including service. In no event shall Ca	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 scrvice. In no event shall Cardinal be fable for incidental or consequental damages, including whoul invitation, business interruptions, loss of use, or loss of profits incure by clark its subsidiaries, scrvice. In no event shall Cardinal be fable for incidental or consequental damages, including whoul invitation, business interruptions, loss of use, or loss of profits incure by clark its subsidiaries, scrvice.	ade in writing and received by Cardinal within 30 days after completion of the sinterruptions, loss of use, or loss of profits incurred by clent, its subsidiarie sinterruptions, loss of use, or loss obvious stated reasons or otherwise	appircaute 5.
Relinquished By	AUM Times	Interference     Phone Result:       Phone Result:     Fax Result:       REMARKS:     REMARKS:	III: □ Yes X No Add'I Phone #: □ Yes X No Add'I Fax #:
Relinquished By:	Date: <u>S-4-17</u> Received Time: <u>S-</u>	the dela	
Delivered By:	(Circle One)	Sample Condition CHECKED BY: Cool Intack (Initials)	
Sampler - UPS	- Bus - Other: /1.70	In No TOAN O	lastuad space.

**CARDINAL** Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Cherniges. Cardnal's liability and clearts exclusive remedy for any datin arising whether based in contract or tort, shall be functed to the amount paid by the clear for the analyses. At claims including those for megligence and any other cause whitsoever what be demend who due as made in writing and received by Cardnal within 30 days after completion of the subschare.         Reflinit regulation of consequential demages, including without finition, business interander by Cardnal within 30 days after completion of the subschare.         Reflinit regulation of the performance of semance is meander by Cardnal, regulates and whether such claim is based upon any of the above stated resons or aftervise.         Reflinit regulation of the performance of semance is meander by Cardnal, regulates and online is based upon any of the above stated resons or aftervise.         Reflinit regulation of the performance of semance is the endered by:       Date:       No       Add1 Phone #:         Relinit regulation of the semance is environ.       Date:       No       Add1 Phone #:       No         Relinit regulation of the semander by:       Use of the open regulation.       No       Add1 Phone #:       No         Relinit regulation of the semander by:       Use of the open regulation.       No       Add1 Phone #:       No       Add1 Phone #:         Relinit regulation of the semander by:       Use of the open regulation.       No       Add1 Fax #:       No       Add1 Fax #:         Relinit regulatis of the open regulation.       The	12 BH-3 9-11 H-16-AR 13 BH-3 19-20 14 24-35 15 24-35 14 24-35 14 25-30 14 25-300	AVAT ITIS XXX	re #: 575 397-0510 Fax #: 575 393-4388 set #:	CHAIN-OF-CUSTODY AND ANA
11 Phone #:				ID ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

30

Sample Condition Cool Intact Yes Yes No No No

CHECKED BY: Initials)

05

mad space

Page 20 of 20



July 24, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-17-002

Enclosed are the results of analyses for samples received by the laboratory on 07/17/17 16:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: WSW -1 (H701853-01)

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	07/20/2017	ND	1.88	93.8	2.00	0.312	
Toluene*	<0.050	0.050	07/20/2017	ND	1.92	96.1	2.00	0.0471	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.09	105	2.00	0.472	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.23	104	6.00	0.302	
Total BTEX	<0.300	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/19/2017	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	07/18/2017	ND	199	99.5	200	2.81	
DRO >C10-C28	12.6	10.0	07/18/2017	ND	207	104	200	3.44	
Surrogate: 1-Chlorooctane	88.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.8	% 34.7-15	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

#### Sample ID: WSW -2 (H701853-02)

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	07/20/2017	ND	1.88	93.8	2.00	0.312	
Toluene*	<0.050	0.050	07/20/2017	ND	1.92	96.1	2.00	0.0471	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.09	105	2.00	0.472	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.23	104	6.00	0.302	
Total BTEX	<0.300	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 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	352	16.0	07/19/2017	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	07/18/2017	ND	199	99.5	200	2.81	
DRO >C10-C28	<10.0	10.0	07/18/2017	ND	207	104	200	3.44	
Surrogate: 1-Chlorooctane	82.7 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	85.1 9	34.7-15	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: ESW -1 (H701853-03)

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	07/20/2017	ND	1.88	93.8	2.00	0.312	
Toluene*	<0.050	0.050	07/20/2017	ND	1.92	96.1	2.00	0.0471	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.09	105	2.00	0.472	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.23	104	6.00	0.302	
Total BTEX	<0.300	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 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	1360	16.0	07/19/2017	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	07/19/2017	ND	205	102	200	4.84	
DRO >C10-C28	<10.0	10.0	07/19/2017	ND	214	107	200	4.15	
Surrogate: 1-Chlorooctane	87.7 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.9 9	% 34.7-15	7						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: ESW -2 (H701853-04)

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	07/20/2017	ND	1.88	93.8	2.00	0.312	
Toluene*	<0.050	0.050	07/20/2017	ND	1.92	96.1	2.00	0.0471	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.09	105	2.00	0.472	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.23	104	6.00	0.302	
Total BTEX	<0.300	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	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	288	16.0	07/19/2017	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	07/19/2017	ND	205	102	200	4.84	
DRO >C10-C28	<10.0	10.0	07/19/2017	ND	214	107	200	4.15	
Surrogate: 1-Chlorooctane	87.4 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.3	% 34.7-15	7						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: ESW -3 (H701853-05)

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	07/20/2017	ND	1.88	93.8	2.00	0.312	
Toluene*	<0.050	0.050	07/20/2017	ND	1.92	96.1	2.00	0.0471	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.09	105	2.00	0.472	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.23	104	6.00	0.302	
Total BTEX	<0.300	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	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	32.0	16.0	07/19/2017	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	07/19/2017	ND	205	102	200	4.84	
DRO >C10-C28	<10.0	10.0	07/19/2017	ND	214	107	200	4.15	
Surrogate: 1-Chlorooctane	85.2 9	28.3-16	4						
			7						

# Sample ID: WSP -1 (H701853-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/19/2017	ND	448	112	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: WSP -2 (H701853-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/19/2017	ND	448	112	400	0.00	

## Sample ID: WSP -3 (H701853-08)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/19/2017	ND	448	112	400	0.00	

## Sample ID: WSP -4 (H701853-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/19/2017	ND	448	112	400	0.00	

#### Sample ID: ESP -1 (H701853-10)

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	07/19/2017	ND	448	112	400	0.00	

## Sample ID: ESP -2 (H701853-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/19/2017	ND	448	112	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/17/2017	Sampling Date:	07/14/2017
Reported:	07/24/2017	Sampling Type:	Soil
Project Name:	BRE-17-002	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: ESP -3 (H701853-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/19/2017	ND	448	112	400	0.00	

## Sample ID: ESP -4 (H701853-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	07/19/2017	ND	432	108	400	3.64	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

## \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 11

		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101 E (575)	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Late of ot
Company Name: S	Safety and Environmental Solutions	BILL TO ANALYSIS REQUEST
Project Manager: E	Bob Allen	P.O. #
Address: 703 Ea	East Clinton, PO Box 1613	Company: Same
city: Hobbs	State: NM Zip: 88240	C
Phone #: 575 397-	397-0510 Fax #: 575 393-4388	Address:
Project #: RRE	-17-002 Project Owner:	City:
Project Name:		State: Zip:
Project Location:		Phone #:
Sampler Name:	SAVID ROSCR	.10
FOR LAB USE ONLY	MATRIX	
l ah I D	WATER	And the owner of the owner of the owner of
H710/853		
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7	ESN-3	
6	NSP-1	1020
2	e 250	
2	NSP-3	
9	WSP-4	1054
	ESP-1 GIIN	
PLEASE NOTE: Liability and Damage analyses. All claims including those for service. In no event shall Cardinal be li	ents exclusive rei cause whatsoeve quental damages	d received by Cardinal within 30 days after completion of the applicable loss of use, or loss of profils incurred by citent, its subsidiaries, in based upon any of the above and determine or effective
Relinquished By:	Cult	
AN Do	Tifne: '	
Relinquished By:	Time: 50 Received By:	Udator?
Delivered By: (Circle One) _0.68	cle One) _ 0.6 2 Sample Condition	ion CHECKED BY: (Initials)
Sampler - UPS - Bus	- Other: Corrected -0.852 BYE	75

Page 10 of 11

# CARDINAL Laboratories

Page 11 of 11

CARDINAL Laboratories



August 04, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-17-002

Enclosed are the results of analyses for samples received by the laboratory on 07/24/17 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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="http://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project Number: Project Manager:		Reported: 04-Aug-17 17:49
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	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
-	ESW -6	H701924-01	Soil	21-Jul-17 15:45	24-Jul-17 16:50
	ESW -8	H701924-02	Soil	24-Jul-17 09:45	24-Jul-17 16:50
	ESW -9	H701924-03	Soil	24-Jul-17 10:40	24-Jul-17 16:50
	ESW -10	H701924-04	Soil	24-Jul-17 11:55	24-Jul-17 16:50

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### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Soluti 703 East Clinton Hobbs NM, 88240	ons		Project: BRE-17-002 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388					Reported: 04-Aug-17 17:49		
				CSW -6						
			H/019	924-01 (Se	)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	72-	148	7072601	MS	26-Jul-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
Surrogate: 1-Chlorooctane			109 %	28.3	-164	7072504	MS	26-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane			112 %	34.7	-157	7072504	MS	26-Jul-17	8015B	
			Green Analy	tical Lab	oratories					
Soluble (DI Water Extraction)										

10.0

50.6

### **Cardinal Laboratories**

Chloride

\*=Accredited Analyte

EPA300.0

04-Aug-17

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mg/kg wet

B707239

10

JDA

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240	tions		Project: BRE-17-002 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388						Reported: 04-Aug-17 17:49			
				ESW -8 924-02 (So	oil)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	al Laborat	ories							
Volatile Organic Compounds b	v EPA Method	8021										
Benzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B			
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B			
Total Xylenes*	< 0.150		0.150	mg/kg	50	7072601	MS	26-Jul-17	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	7072601	MS	26-Jul-17	8021B			
Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-	148	7072601	MS	26-Jul-17	8021B			
Petroleum Hydrocarbons by G	C FID											
GRO C6-C10	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B			
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B			
Surrogate: 1-Chlorooctane			115 %	28.3	-164	7072504	MS	26-Jul-17	8015B			
Surrogate: 1-Chlorooctadecane			119 %	34.7	-157	7072504	MS	26-Jul-17	8015B			
			Green Anal	ytical Lab	oratories							
<u>Soluble (DI Water Extraction)</u> Chloride	22.3		10.0	mg/kg wet	10	B707239	JDA	04-Aug-17	EPA300.0			
Unioriae	22.3		10.0	mg/kg wet	10	D/0/239	JDA	04-Aug-1/	LFA300.0			

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solut 703 East Clinton Hobbs NM, 88240	ions		Project Num Project Mana	ager: Bob	IE GIVEN	8		C	Reported: 14-Aug-17 17:	49
				ESW -9 924-03 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds by	<b>EPA Method</b>	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	72-	48	7072601	MS	26-Jul-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
Surrogate: 1-Chlorooctane			116 %	28.3	164	7072504	MS	26-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane			123 %	34.7	157	7072504	MS	26-Jul-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	43.2		10.0	mg/kg wet	10	B707239	JDA	04-Aug-17	EPA300.0	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240	utions		Project Num Project Mana	ager: Bob	IE GIVEN	8		C	Reported: )4-Aug-17 17:	49
				SW -10 924-04 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds b	ov EPA Method	8021								
Benzene*	< 0.050	0021	0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7072601	MS	26-Jul-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-	148	7072601	MS	26-Jul-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072504	MS	26-Jul-17	8015B	
Surrogate: 1-Chlorooctane			101 %	28.3	164	7072504	MS	26-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane			104 %	34.7	157	7072504	MS	26-Jul-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	35.4		10.0	mg/kg wet	10	B707239	JDA	04-Aug-17	EPA300.0	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project Number: Project Manager:	Bob Allen	Reported: 04-Aug-17 17:49
	Fax To:	(575) 393-4388	

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Prepared & Analyzed: 26-Jul-17           Batch 7072601-BLK1)         Prepared & Analyzed: 26-Jul-17           Benzene         ND         0.050         mg/kg           Foluene         ND         0.050         mg/kg           Eibylbenzene         ND         0.050         mg/kg           Fotal Xylenes         ND         0.150         mg/kg           Surrogate: 4-Bromofluorobenzene (PID)         0.0538         mg/kg         0.0500         108         72-148           LCS (7072601-BS1)           Prepared & Analyzed: 26-Jul-17           Benzene         2.15         0.050         mg/kg         2.00         101         75.5-127           Ethylbenzene         2.01         0.050         mg/kg         2.00         101         75.5-127           Ethylbenzene         2.07         0.050         mg/kg         6.00         104         70.9-124           Surrogate: 4-Bromofluorobenzene (PID)         0.0523         mg/kg         2.00         101         75.5-127         Ethylbenzene         2.01         0.050         mg/kg         2.00         104         70.9-124         Ethylbenzene         2.01         0.050         mg/kg         2.00<											
Prepared & Analyzed: 26-Jul-17           Prepared & Analyzed: 26-Jul-17           Banch (7072601-BLK1)         Prepared & Analyzed: 26-Jul-17           Benzene         ND         0.050         mg/kg           Foluene         ND         0.050         mg/kg           Edwylbenzene         ND         0.050         mg/kg           Fotal Xylenes         ND         0.050         mg/kg           Surrogate: 4-Bromofluorobenzene (PID)         0.0538         mg/kg         2.00         108         72-148           LCS (7072601-BS1)           Prepared & Analyzed: 26-Jul-17           Benzene         2.15         0.050         mg/kg         2.00         101         75.5-127           Ethylbenzene         2.01         0.050         mg/kg         2.00         101         75.5-127           Ethylbenzene         2.07         0.050         mg/kg         2.00         103         77.7-125           Surrogate: 4-Bromofluorobenzene (PID)         0.0529         mg/kg         2.00         104         70.9-124            Surrogate: 4-Bromofluorobenzene (PID)         0.0529         mg/kg         2.00         104         77.7-125					Spike	Source		%REC			
Blank (7072601-BLK1)         Prepared & Analyzed: 26-Jul-17           Benzene         ND         0.050         mg/kg           Foluene         ND         0.050         mg/kg           Foluene         ND         0.050         mg/kg           Ethylbenzene         ND         0.050         mg/kg           Fotal Xylenes         ND         0.300         mg/kg           Fotal BTEX         ND         0.300         mg/kg           Sturrogate: 4-Bromofluorobenzene (PID)         0.0538         mg/kg         0.0500         108         72-148           CLS (7072601-BS1)         Prepared & Analyzed: 26-Jul-17               Benzene         2.15         0.050         mg/kg         2.00         108         72-148           CLS (7072601-BS1)         Prepared & Analyzed: 26-Jul-17               Benzene         2.15         0.050         mg/kg         2.00         101         75.5-127           Ethylbenzene         2.07         0.050         mg/kg         6.00         104         70.9-124           Surrogate: 4-Bromofluorobenzene (PID)         0.0529         mg/kg         0.0500         106         72-148	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Banzene         ND         0.050         mg/kg           Foluene         ND         0.050         mg/kg           Ethylbenzene         ND         0.050         mg/kg           Total Xylenes         ND         0.150         mg/kg           Surrogate:         4.Bromofluorobenzene (PID)         0.0538         mg/kg         0.0500         108         72-148           LCS (7072601-BS1)         Prepared & Analyzed:         2.6-Jul-17              Benzene         2.15         0.050         mg/kg         2.00         107         79.5-124             Foluene         2.01         0.050         mg/kg         2.00         101         75.5-127             Ethylbenzene         2.07         0.050         mg/kg         2.00         103         77.7-125             Surrogate:         4.Bromofluorobenzene (PID)         0.0529         mg/kg         6.00         104         70.9-124             Surrogate:         4.Bromofluorobenzene (PID)         0.0529         mg/kg         0.0500         106         72-148           LCS Dup (7072601-BSD1)         Prepared & Analyzed: 26-Jul-17         <	Batch 7072601 - Volatiles										
Toluene       ND       0.050       mg/kg         Ethylbenzene       ND       0.050       mg/kg         Fotal Xylenes       ND       0.150       mg/kg         Fotal Sylenes       ND       0.050       mg/kg         Surrogate: 4-Bromofluorobenzene (PID)       0.0538       mg/kg       0.0500       108       72-148         LCS (7072601-BS1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.15       0.050       mg/kg       2.00       101       75.5-127         Ethylbenzene       2.07       0.050       mg/kg       2.00       103       77.7-125         Ethylbenzene       6.23       0.150       mg/kg       6.00       104       709-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       6.00       104       709-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       2.00       106       72-148         LCS Dup (7072601-BSD1)       mg/kg       0.0500       106       72-148       100         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       2.00       106       72-148         LCS Dup (7072601-BSD1)       mg/kg       0.0500       mg/kg       2	Blank (7072601-BLK1)				Prepared &	Analyzed:	26-Jul-17				
But of a strengthy in the	Benzene	ND	0.050	mg/kg							
Total Xylenes       ND       0.150       mg/kg         Total BTEX       ND       0.300       mg/kg         Surrogate: 4-Bromofluorobenzene (PID)       0.0538       mg/kg       0.0500       108       72-148         LCS (7072601-BS1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.15       0.050       mg/kg       2.00       107       79.5-124         Foluene       2.01       0.050       mg/kg       2.00       101       75.5-127         Ethylbenzene       2.07       0.050       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17             Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17              Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106 <td< td=""><td>Toluene</td><td>ND</td><td>0.050</td><td>mg/kg</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Toluene	ND	0.050	mg/kg							
Total BTEX         ND         0.300         mg/kg           Surrogate: 4-Bromofluorobenzene (PID)         0.0538         mg/kg         0.0500         108         72-148           LCS (7072601-BS1)         Prepared & Analyzed: 26-Jul-17           Benzene         2.15         0.050         mg/kg         2.00         107         79.5-124           Foluene         2.01         0.050         mg/kg         2.00         101         75.5-127           Ethylbenzene         2.07         0.050         mg/kg         6.00         104         70.9-124           Surrogate: 4-Bromofluorobenzene (PID)         0.0529         mg/kg         6.00         104         70.9-124           Surrogate: 4-Bromofluorobenzene (PID)         0.0529         mg/kg         0.0500         106         72-148           LCS Dup (7072601-BSD1)         Descare         2.14         0.050         mg/kg         2.00         107         79.5-124         0.414         6.5           Surrogate: 4-Bromofluorobenzene (PID)         0.0529         mg/kg         2.00         107         79.5-124         0.414         6.5           Surrogate: 4-Bromofluorobenzene (PID)         0.050         mg/kg         2.00         107         79.5-124         0.414 <t< td=""><td>Ethylbenzene</td><td>ND</td><td>0.050</td><td>mg/kg</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Ethylbenzene	ND	0.050	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)       0.0538       mg/kg       0.0500       108       72-148         LCS (7072601-BS1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.15       0.050       mg/kg       2.00       107       79.5-124         Foluene       2.01       0.050       mg/kg       2.00       101       75.5-127         Ethylbenzene       2.07       0.050       mg/kg       2.00       103       77.7-125         Foluens       6.23       0.150       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17       Prepared & Analyzed: 26-Jul-17       Prepared & Analyzed: 26-Jul-17         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Gluene       1.99       0.050       mg/kg       2.00       107       79.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00	Total Xylenes	ND	0.150	mg/kg							
LCS (7072601-BS1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.15       0.050       mg/kg       2.00       107       79.5-124         Toluene       2.01       0.050       mg/kg       2.00       101       75.5-127         Ethylbenzene       2.07       0.050       mg/kg       2.00       103       77.7-125         Total Xylenes       6.23       0.150       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17       1.08       7.02         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Ethylbenzene       2.07       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Foluene       2.07       0.650       mg/kg	Total BTEX	ND	0.300	mg/kg							
Benzene       2.15       0.050       mg/kg       2.00       107       79.5-124         Foluene       2.01       0.050       mg/kg       2.00       101       75.5-127         Ethylbenzene       2.07       0.050       mg/kg       2.00       103       77.7-125         Foluenes       6.23       0.150       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17       26-Jul-17       50-127       1.38       7.02         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       99.3       75.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       70.9-124       0.372       7.78         Fotal Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124	Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	72-148			
Foluene       2.01       0.050       mg/kg       2.00       101       75.5-127         Ethylbenzene       2.07       0.050       mg/kg       2.00       103       77.7-125         Fotal Xylenes       6.23       0.150       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       99.3       75.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Fotal Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124       0.372	LCS (7072601-BS1)				Prepared &	Analyzed:	26-Jul-17				
Ethylbenzene       2.07       0.050       mg/kg       2.00       103       77.7-125         Fotal Xylenes       6.23       0.150       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       99.3       75.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Fotal Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124       0.372       7.78	Benzene	2.15	0.050	mg/kg	2.00		107	79.5-124			
Fordal Xylenes       6.23       0.150       mg/kg       6.00       104       70.9-124         Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       99.3       75.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Foral Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124       0.372       7.78	Toluene	2.01	0.050	mg/kg	2.00		101	75.5-127			
Surrogate: 4-Bromofluorobenzene (PID)       0.0529       mg/kg       0.0500       106       72-148         LCS Dup (7072601-BSD1)       Prepared & Analyzed: 26-Jul-17         Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       107       79.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Fotal Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124       0.372       7.78	Ethylbenzene	2.07	0.050	mg/kg	2.00		103	77.7-125			
LCS Dup (7072601-BSD1)         Prepared & Analyzed: 26-Jul-17           Benzene         2.14         0.050         mg/kg         2.00         107         79.5-124         0.414         6.5           Foluene         1.99         0.050         mg/kg         2.00         99.3         75.5-127         1.38         7.02           Ethylbenzene         2.07         0.050         mg/kg         2.00         104         77.7-125         0.170         7.83           Fotal Xylenes         6.25         0.150         mg/kg         6.00         104         70.9-124         0.372         7.78	Total Xylenes	6.23	0.150	mg/kg	6.00		104	70.9-124			
Benzene       2.14       0.050       mg/kg       2.00       107       79.5-124       0.414       6.5         Foluene       1.99       0.050       mg/kg       2.00       99.3       75.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Fotal Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124       0.372       7.78	Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	72-148			
Foluene       1.99       0.050       mg/kg       2.00       99.3       75.5-127       1.38       7.02         Ethylbenzene       2.07       0.050       mg/kg       2.00       104       77.7-125       0.170       7.83         Fotal Xylenes       6.25       0.150       mg/kg       6.00       104       70.9-124       0.372       7.78	LCS Dup (7072601-BSD1)				Prepared &	Analyzed:	26-Jul-17				
Ethylbenzene         2.07         0.050         mg/kg         2.00         104         77.7-125         0.170         7.83           Total Xylenes         6.25         0.150         mg/kg         6.00         104         70.9-124         0.372         7.78	Benzene	2.14	0.050	mg/kg	2.00		107	79.5-124	0.414	6.5	
Fotal Xylenes         6.25         0.150         mg/kg         6.00         104         70.9-124         0.372         7.78	Toluene	1.99	0.050	mg/kg	2.00		99.3	75.5-127	1.38	7.02	
	Ethylbenzene	2.07	0.050	mg/kg	2.00		104	77.7-125	0.170	7.83	
Surrogate: 4-Bromofluorobenzene (PID) 0.0533 mg/kg 0.0500 107 72-148	Total Xylenes	6.25	0.150	mg/kg	6.00		104	70.9-124	0.372	7.78	
	Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	72-148			

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: Bf Project Number: No Project Manager: Bo	ONE GIVEN	Reported: 04-Aug-17 17:49
HODDS NM, 88240	, ,	575) 393-4388	

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7072504 - General Prep - Organics										
Blank (7072504-BLK1)				Prepared: 2	25-Jul-17 A	nalyzed: 26	Jul-17			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	28.3-164			
Surrogate: 1-Chlorooctadecane	61.9		mg/kg	50.0		124	34.7-157			
LCS (7072504-BS1)				Prepared: 2	25-Jul-17 A	nalyzed: 26	Jul-17			
GRO C6-C10	206	10.0	mg/kg	200		103	76.6-119			
DRO >C10-C28	213	10.0	mg/kg	200		107	81.4-124			
Total TPH C6-C28	419	10.0	mg/kg	400		105	79.4-121			
Surrogate: 1-Chlorooctane	58.3		mg/kg	50.0		117	28.3-164			
Surrogate: 1-Chlorooctadecane	64.3		mg/kg	50.0		129	34.7-157			
LCS Dup (7072504-BSD1)				Prepared: 2	25-Jul-17 A	nalyzed: 26	Jul-17			
GRO C6-C10	219	10.0	mg/kg	200		110	76.6-119	6.49	7.94	
DRO >C10-C28	232	10.0	mg/kg	200		116	81.4-124	8.22	9.83	
Total TPH C6-C28	451	10.0	mg/kg	400		113	79.4-121	7.37	8.57	
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	28.3-164			
Surrogate: 1-Chlorooctadecane	69.4		mg/kg	50.0		139	34.7-157			

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project Number:   Project Manager:		Reported: 04-Aug-17 17:49
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### Soluble (DI Water Extraction) - Quality Control

### **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B707239 - General Prep - Wet Chem										
Blank (B707239-BLK1)				Prepared: 3	81-Jul-17 A	nalyzed: 03	-Aug-17			
Chloride	ND	10.0	mg/kg wet							
LCS (B707239-BS1)				Prepared: 3	81-Jul-17 A	nalyzed: 03	-Aug-17			
Chloride	232	10.0	mg/kg wet	250		92.9	85-115			
LCS Dup (B707239-BSD1)				Prepared: 3	31-Jul-17 A	nalyzed: 03	-Aug-17			
Chloride	232	10.0	mg/kg wet	250		92.8	85-115	0.0990	20	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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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 Solutions	BILLED	ANAI YSIS RECITECT
Project Manager: Bob Allen		
Address: 703 East Clinton, PO Box 1613	Company: Same	
City: Hobbs State: NM Zip: 88240		
Phone #: 575 397-0510 Fax #: 575 393-4388	Address:	
Project #: RRE~/7~00) Project Owner:	City:	
Project Name:	State: Zip:	
Project Location:	Phone #:	
Sampler Name: HAVIA WOLLCA	12	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D. RAB OR (C)OMP ONTAINERS OUNDWATER STEWATER	JDGE HER: D/BASE: /COOL HER: SJ S S CALOI BTE TPH (E	
	X	
2 EUG-8 1111	11 7/2+0745 X X X	
3 6540 4 11	1 1/241040× × ×	
X 15 21 - 733 4	X 7/27/1155 X X X	
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afilitates or successors arising out of or related to the performance of services bereunder by Cardinal, regardless of whether such	hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	*
Relinquished By:	ult:  Ves VNo Ves VNo	Add'l Phone #: Add'l Fax #:
Relinquished By: Date: Received By:	2	ł.

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

0 420

Sample Condition Cool Intact Yes Yes No No No

;q

CHECKED BY: (Ipitials)

1.08

Time: 50

Appendix D Site Photos

# Breitburn Operating

## Jalmat Trunk Line





Excavated area with 3' of lines



Liner Installation



Lined Excavation



Backfill

