Basin Environmental Service Technologies, LLC

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NOT APPROVED

REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

BLACK MOUNTAIN OPERATING STATE K #2

Lea County, New Mexico Unit Letter "A" (NE/NE), Section 2, Township 10 South, Range 33 East Latitude 33.48127 North, Longitude -103.53265 West NMOCD Reference #: 1RP-4675

Prepared For:

Black Mountain Operating 500 Main Street, Suite 500 Fort Worth, Texas 76102

Prepared By:

Basin Environmental Service Technologies, LLC 3100 Plains Highway
Lovington, New Mexico 88260

April 2018

Robbie Runnels

Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of Black Mountain Operating (BMO), has prepared this *Risk Based Remediation Summary & Site Closure Request* for the release site known as State K #2. The legal description of the release site is Unit Letter "A" (NE/NE), Section 2, Township 10 South, Range 33 East, in Lea County, New Mexico. The geographic coordinates of the release site are 33.48127° North latitude and -103.53265° West longitude. The property affected by the release is owned by the state of New Mexico. A "Site Location Map" is provided as Figure 1.

Around April 8th, 2017, Black Mountain discovered a release of approximately one-hundred seventy (170) barrels (bbls) of crude oil and produced water when a seal failed and allowed the liquid to escape from the pump. Approximately twenty (20) bbls were recovered. It is estimated that twelve-thousand two-hundred forty-four square feet (12,244 ft²) of battery pad, pasture, road, and an additional battery pad was impacted. New Mexico Oil Conservation Division (NMOCD) was notified of the release on April 8th, 2017, and a "Release Notification and Corrective Action" (Form C-141) was submitted to NMOCD on April 10th, 2017, for approval. The final Form C-141 is provided as Appendix A.

Between April 10th, 2017 and April 24th, 2017, a non-Basin remediation company began excavation. Basin personnel were on site beginning April 24th, 2017, to begin delineation and sampling activities. At the time of the sampling event, the site had been excavated to various depths. Eleven (11) soil sample points within the release area were established on the floor of the excavation. The soil sample points, (Floor 1, Floor 2, Floor 3, Floor 4, Floor 5, Floor 6, Floor 7, Floor 8, Floor 9, Floor 10, Floor 11) from the release area were discretely collected and submitted to a NMOCD approved and certified laboratory (Cardinal Laboratories in Hobbs, NM). Chloride, using Standard Method 4500-CL- B, gasoline Range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) were analyzed for total concentrations using Environmental Protection Agency (EPA) Method SW 846-8015M. In addition, soil sample points Floor 3 and Floor 9 were analyzed for the concentration of Benzene, Toluene, Ethyl-benzene, and xylenes (BTEX) using method BTEX 8021B. Also, adjacent to the floor soil sample locations, soil wall samples were discretely sampled and submitted to the laboratory for total petroleum hydrocarbons ([TPH] GRO, DRO, ORO) as well as chloride concentration.

Laboratory analytical results indicated elevated TPH concentrations of 6,547 mg/kg in soil sample Floor 1 @ 1', 20,880 in Floor 1 WW, 29,480 mg/kg in Floor 1 NW, 10,220 mg/kg in Floor 2 WW, 6,147 mg/kg in Floor 4 @ 4', 11,810 mg/kg in Floor 5 EW, 13,880 in Floor 7 EW, 11,961 in Floor 8 EW, and 14,830 mg/kg in Floor 10 SW. Elevated chloride concentration of 976 mg/kg was found in soil sample Floor 1 NW. BTEX concentrations were 3.68 in Floor 3 @ 3' with <0.050 mg/kg benzene and Floor 9 @ 1' had a BTEX concentration of 0.686 mg/kg with <0.050 mg/kg benzene.

Review of laboratory analytical documentation indicated additional vertical and horizontal delineation of the release was required in select locations.

General photographs of the release site and remediation activities are provided as Appendix B. Locations of the soil sampling are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical results are summarized in Table 1, "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Laboratory analytical reports are provided in Appendix C.

General photographs of the release site and remediation activities are provided as Appendix B. Locations of the soil sampling are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical results are summarized in Table 1, "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Laboratory analytical reports are provided in Appendix C.

On June 1^{rst}, 2017, a Corrective Action Plan (CAP) was submitted to the New Mexico State Land Office (NMSLO) and NMOCD outlining a strategy to advance the site to an approved closure. The NMOCD representative requested additional sampling which was performed on June 6th, 2017 and June 12th, 2017. The CAP was resubmitted with the additional sampling results. NMOCD required further sampling for BTEX which was performed on July 13th, 2017. The NMSLO requested additional verbiage clarifying that no noxious or invasive species would be introduced during the seeding of the location. The CAP was resubmitted on August 2nd, 2017. The CAP was never approved by the NMOCD or NMSLO. However, a "Request to Backfill" was approved by a representative of the NMOCD on February 7th, 2018 with the NMSLO approving the request on February 9th, 2018.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 2, Township 10 South, Range 33 East. A depth-to-groundwater (DGW) reference map utilized by the NMOCD does not indicate groundwater could be encountered at any depth. Utilizing gradient patterns and the Water Incident Database (WAID), DGW coincides with the groundwater reference map. Based on the NMOCD ranking system, zero (0) points were assigned to the site as a result of this criterion. A DGW map is provided as Figure 2.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the State K #2 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) 50 mg/kg (ppm)
- Total petroleum hydrocarbons (TPH) 5,000 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis and have been presumed to be 1,000 mg/kg for a site with a ranking score of zero (0).

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On April 24th, 2017, Basin personnel were on the location to perform sampling activities. The entire release area had been excavated to various depths ranging from six inches (6") to an approximate depth of four feet (4') bgs. Discrete soil samples were retrieved from the floor of the excavation (Floor 1 - Floor 10) to be analyzed at a commercial laboratory for concentrations of TPH and chloride. In addition, soil samples Floor 3 @ 3' and Floor 9 @ 1' were analyzed for the concentration of BTEX. At corresponding locations of the floor samples, wall samples were also retrieved and submitted for concentrations of TPH and chloride. Laboratory analyses for Floor 1 @ 1', Floor 1 NW, Floor 1 WW, Floor 2 WW, Floor 4 @ 4', Floor 5 EW, Floor 7 EW, Floor 8 EW, and Floor 10 SW indicated that TPH concentrations were elevated above the remediation recommended action levels (RRAL). Chloride concentration were found to be below the RRAL for all soil samples. BTEX concentration was found to be below the RRAL for soil samples Floor 3 @ 3' and Floor 9 @ 1'.

In an attempt to complete delineation for TPH, (presumed to be 250 mg/kg for this site), Basin personnel began excavation on June 8th, 2017 where elevated TPH concentrations were present. Excavation was advanced vertically by two feet in the area where soil sample Floor 1 @ 1' was taken. Excavation was advanced vertically by one foot in the area where soil sample Floor 4 @ 4' was retrieved. Excavation was advanced by one foot horizontally in the areas where soil samples Floor 1 NW, Floor 5 EW, Floor 7 EW, Floor 8 EW, and Floor 10 SW were retrieved. Laboratory analyses confirm that delineation and remediation of TPH was complete and below the RRAL. Soil samples Floor 1 WW and Floor 2 WW were not advanced in that the soil samples were retrieved along the secondary containment of the battery. This area will be fully remediated at the time of battery abandonment.

At the request of NMOCD, Basin sampled the entire location for the presence of BTEX on July 13th, 2017. Laboratory analyses confirm that BTEX concentrations for every soil sample taken were below the RRAL.

With the exception of Floor 1 WW and Floor 2 WW, all sampling locations were confirmed to be below the RRAL for the site for concentrations of BTEX, TPH, and chlorides.

Basin personnel began backfilling activities the week of February 12th, 2018. The excavated area was backfilled with clean, non-impacted soils and contoured to the surrounding area.

At a time conducive for germination, the location will be seeded with a blend of native, non-noxious or invasive vegetation approved by the NMSLO. The seed will be applied with either a drill or broadcast method to ensure complete coverage of affected area. If the seeds are sown utilizing the broadcast method, they will be incorporated into the soil with a disc, rake or a harrow as determined by soil conditions.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Cardinal Laboratories, Inc., in Hobbs, New Mexico, for analysis of BTEX, TPH, and/or chloride concentrations using the methods described below. Soil samples were analyzed for BTEX, TPH, and/or chloride concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method SW 846-8021b
- TPH concentrations in accordance with modified EPA Method SW 846-8015M
- Chloride concentrations in accordance with EPA Method 300.1

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory analytical reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

The State K #2 release site was excavated to the point where no constituent of interest was found to have a concentration above the established RRAL for the site. Soil samples collected from the floor, and sidewalls of the excavation were analyzed by an NMOCD-approved laboratory. The concentrations of BTEX, chloride, and TPH were below the RRALs established for the site.

Basin Environmental recommends Black Mountain Operating provide the NMOCD's Hobbs District Office and the NMSLO a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the State K #2 release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Black Mountain Operating. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Black Mountain Operating.

7.0 DISTRIBUTION:

Copy 1: Olivia Yu

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 1)

1625 N French Drive Hobbs, NM 88240

Copy 2: Mark Naranjo

New Mexico State Land Office

1001 S. Atkinson Roswell, NM 88203

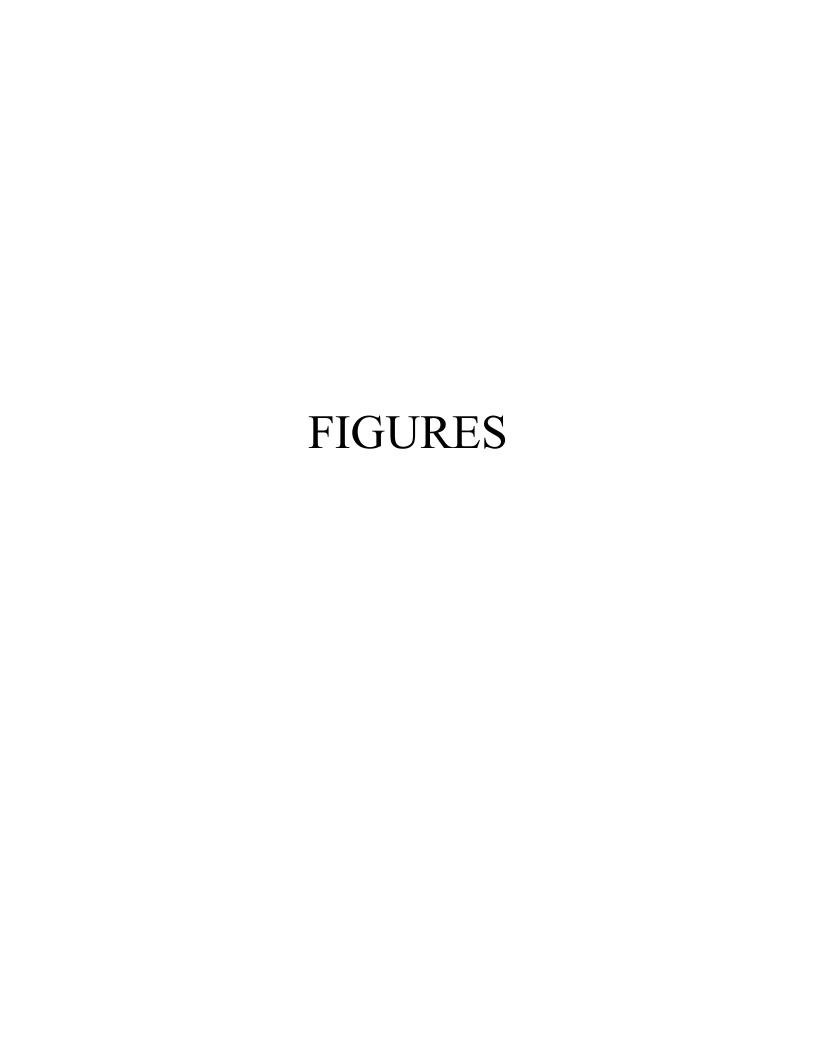
Copy 3: John Wierzowiecki

Black Mountain Operating 500 Main Street, Suite 200 Fort Worth, Texas 76102

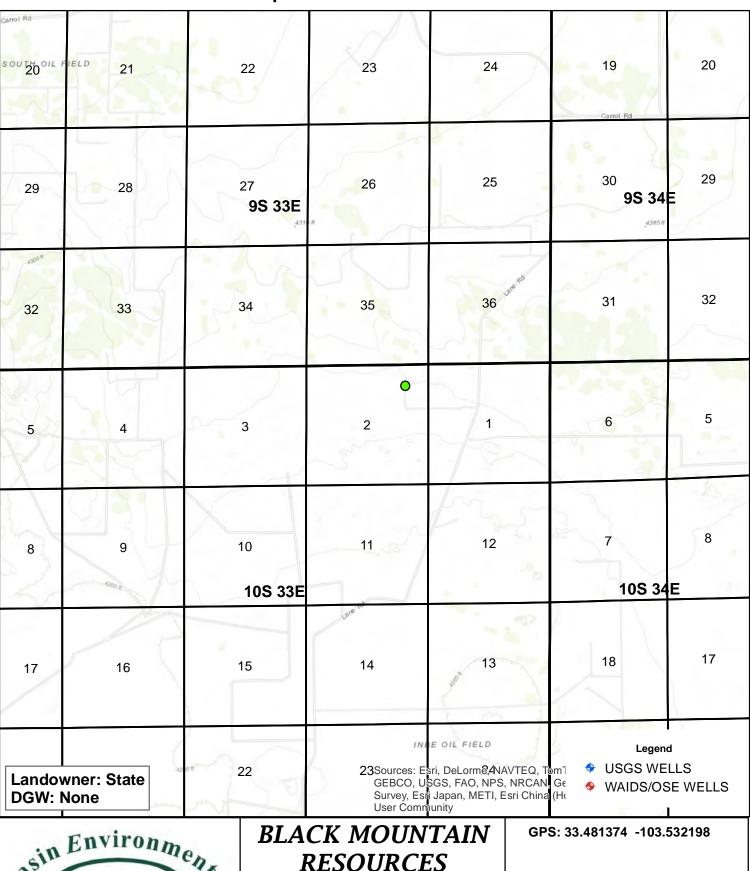
Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, New Mexico 88260



Depth to Groundwater





RESOURCES STATE K #2

UL A & H SECTION 2 T-10-S R-33-E LEA COUNTY, NM

Miles GPS date: 4/24/17 TG Drawing date: 3/22/18 Drafted by: T. Grieco

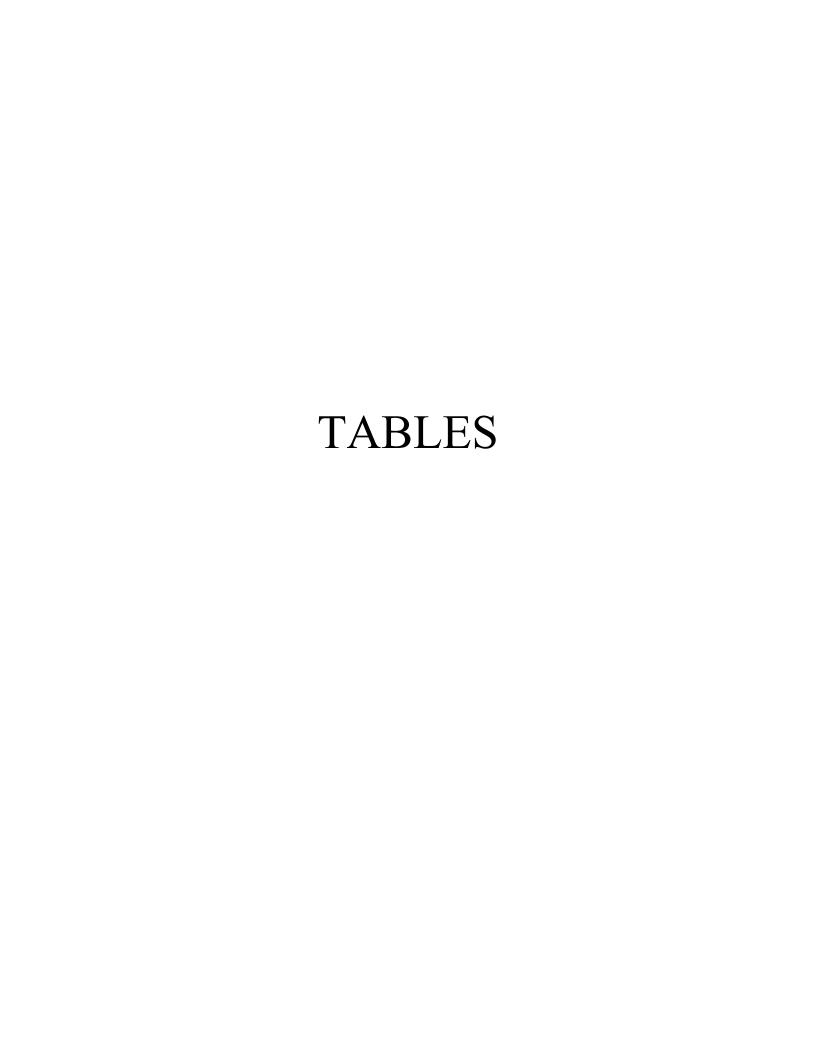


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

Summary of all Samples BLACK MOUNTAIN OPERATING STATE K #2

LEA COUNTY, NEW MEXICO UL A, SEC. 2, T 10 S, R 33 E

NMOCD REFERENCE #: 1RP-4675

	FINAL			N	METHOD: E	PA SW 846	-8021B, 503	0	MET	THOD: 801	5M	TOU	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORID E (mg/Kg)
Floor 1 @3'	3'	Various	In-Situ	< 0.050	<0.050	<0.050	<0.050	<0.300	<10.0	77	<10.0	77	48
Floor 1 NW	1.5'	Various	In-Situ	< 0.050	<0.050	<0.050	<0.050	<0.300	59	1,220	244.0	1,523	208.0
Floor 1 EW	1.5'	Various	In-Situ	< 0.050	0.0900	<0.050	<0.050	<0.300	61	2,270	564.0	2,895	80.0
Floor 1 WW	1.5'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	1,620	16,400	2860.0	20,880	96.0
Floor 2 @ 2'	2'	Various	In-Situ	<0.050	0.0970	<0.050	<0.050	<0.300	220	2,400	505.0	3,125	144.0
Floor 2 EW	1'	Various	In-Situ	<0.050	0.0500	<0.050	<0.050	<0.300	<10.0	271	42.9	314	32.00
Floor 2 WW	1'	Various	In-Situ	<0.050	0.2460	0.103	0.7620	1.1100	1,510.0	7,570	1140.0	10,220	528.0
											1010		
Floor 3@3'	3'	Various	In-Situ	<0.050	0.349	0.575	2.71	3.63	<50.0	2,170.0	464.0	2,634	224.0
Floor 3 EW	1.5'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
Floor 3 WW	1.5'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	110	17.8	128	32.0
Floor 4@5'	5'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Floor 4 WW	2.5'	Various	In-Situ	<0.050	0.0600	<0.050	<0.050	<0.300	17	1,520	237.0	1,774	16.0
Floor 4 EW	2.5'	Various	In-Situ	<0.050	0.0000	<0.050	0.1750	0.3690	<10.0	<10.0	13.4	13	96.0
1 1001 4 2 7	2.0	various	III-Ollu	₹0.030	0.1340	\0.030	0.1730	0.5050	10.0	10.0	13.4	13	90.0
Floor 5@3'	3'	Various	In-Situ	<0.050	0.0550	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Floor 5 WW	1.5'	Various	In-Situ	<0.050	0.1830	<0.050	0.1600	0.3430	66	1,870	261.0	2,197	32.0
Floor 5 EW	1.5'	Various	In-Situ	<0.050	0.0680	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
Floor 6@3'	3'	Various	In-Situ	<0.050	0.1280	<0.050	<0.050	<0.300	<10.0	16	24.8	41	112.0
Floor 6 WW	1.5'	Various	In-Situ	<0.050	0.1370	<0.050	<0.050	<0.300	<10.0	83	17.2	100	32.0
Floor 6 EW	1.5'	Various	In-Situ	<0.050	0.1510	<0.050	0.1660	0.3170	<10.0	<10.0	<10.0	<10.0	<16.0
Floor 7@3'	3'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	479	83.4	562	96.0
Floor 7 EW	1.5'	Various	In-Situ	<0.050	0.0620	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
Floor 7 WW	1.5'	Various	In-Situ	<0.050	0.0940	<0.050	<0.050	<0.300	<50.0	1,290	302.0	1,592	64.0

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

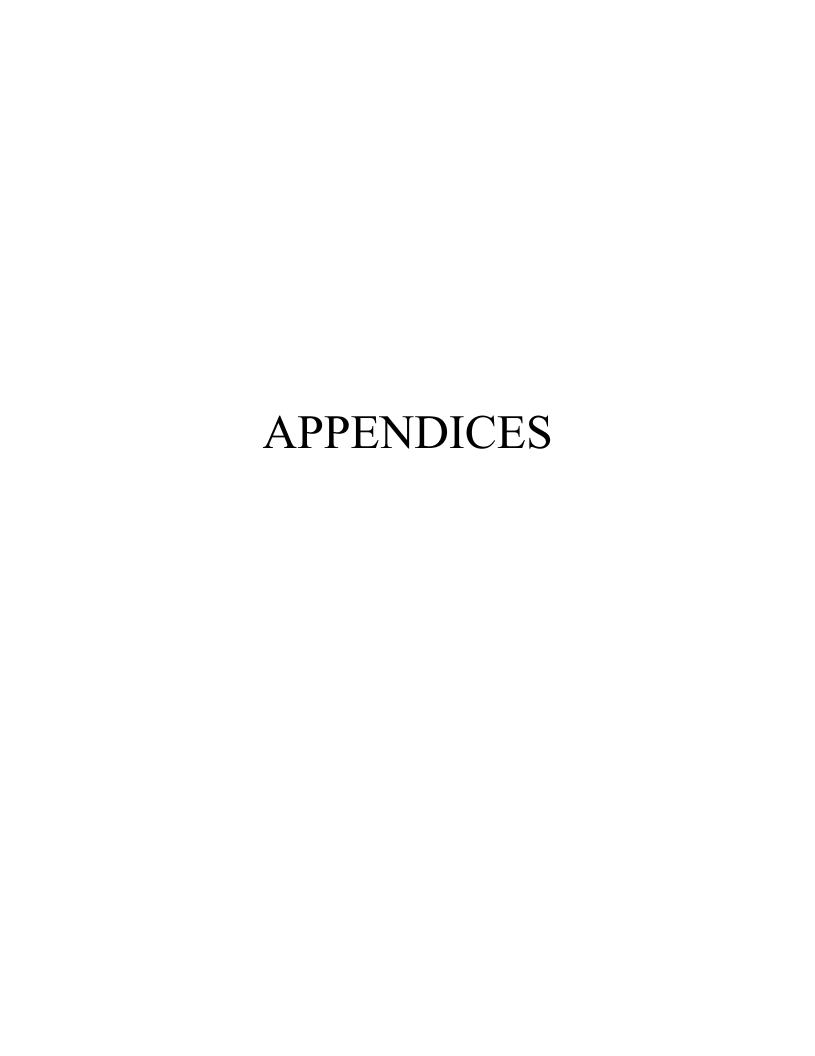
Summary of all Samples BLACK MOUNTAIN OPERATING STATE K #2

LEA COUNTY, NEW MEXICO UL A, SEC. 2, T 10 S, R 33 E

NMOCD REFERENCE #: 1RP-4675

	FINAL			l	METHOD: E	PA SW 846	5-8021B, 503	30	MET	HOD: 801	15M	TDU	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORID E (mg/Kg)
Floor 8@3'	3'	Various	In-Situ	<0.050	0.0820	<0.050	<0.050	<0.300	841	<10.0	100.0	676	64.0
Floor 8 EW	1.5'	Various	In-Situ	<0.050	0.1390	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
Floor 8 WW	1.5'	Various	In-Situ	<0.050	0.0740	<0.050	<0.050	<0.300	88	2,560	429.0	3,077	32.0
Floor 9@1'	1'	Various	In-Situ	<0.050	<0.050	0.116	0.571	0.686	14	393	101.0	508	16.0
Floor 9 WW	0.5'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	11.1	11	32.0
Floor 10@2'	2'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	116	976.0	145.0	1,237	32.0
Floor 10 EW	1'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<50.0	4,130.0	814.0	4,944	32.0
Floor 10 WW	1'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Floor 10 SW	1'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Floor 11@0.5'	0.5'	Various	In-Situ	<0.050	0.1410	<0.050	<0.050	<0.300	<10.0	1,320.0	259.0	1,579	48.0
Floor 11 EW	0.25'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	1,210.0	226.0	1,336	32.0
Floor 11 WW	0.25'	Various	In-Situ	<0.050	<0.050	<0.050	<0.050	<0.300	<10.0	<10.0	15.6	16	16.0
Floor 11 SW	0.25'	Various	In-Situ	<0.050	0.1000	<0.050	<0.050	<0.300	<10.0	28.6	12.0	41	224.0
NMOCD Recomm	nended Rer	nediation Act	ion Level	10				50				5,000	1,000

^{- =} Not analyzed.



APPENDIX – A C-141

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

			Rel	ease Notific	catio	n and Co	orrective A	ction			
						OPERA		_	tial Report	\boxtimes	Final Dana
Name of C	ompany Bl	ack Mounta	in Operat	ting			n Wierzowieck	ci	nai report		Final Repo
Address 50	0 Main St.	Suite 500,	Fort Wor	th, TX, 76102			No. 817-529-94				
Facility Na	me State K	. #2				Facility Typ	e Oil Productio	n Battery			
Surface Ow	ner State			Mineral C	Owner S	State		APIN	o. 30-025-0	0977	
				LOCA	TIO	N OF RE	FACE	1,	0. 50 025 0	0711	
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	10		
A	2	10 S	33 E	660	110111	Journ Ente	660	East west Line	County Lea		
Type of Dala	nga Cruda a	il and David		atitude_33.4812		OF RELI	EASE				
Source of Re	lease Circul	il and Produce	ed Water				Release 170 bbls		Recovered 2		
			ears			Date and H 4/8/17, unk	lour of Occurrenc		Hour of Dis	covery	4/8/17,
Was Immedia	ite Notice G					If YES, To	Whom?	11:30 a.i	П	_	
17-17/1 0.1	1 ****		Yes	No Not Re	quired	Maxey Bro	wn of NMOCD				
By Whom? Jo Was a Watero	Ourse Page	wiecki				Date and H	our 4/8/17, 12:00	p.m.			
THIS II THILLIE	ourse reac		Yes 🖂	No		If YES, Vo	lume Impacting t	he Watercourse			
If a Watercou	ree was Ime	potad Daniel				IVA					
Describe Area	pump was beased from to Affected a	eing used to v he pump. nd Cleanup A	vork botto	ms from oil tank.							
interest Impac and contoured	eted soils we to the surro	ere removed a unding area	nd dispose	lease. This area is count 10° x 20°. The ed of at an NMOC	ED appr	oved facility.	The remediated a	ntally and vertical rea was backfilled	ly for all con I with clean,	stituer non-in	nts of npacted soils
public health o should their op	r the enviro erations have neur. In add	nment. The ave failed to addition, NMOC	cceptance equately i	s true and comple Vor file certain rele of a C-141 report nvestigate and ren ance of a C-141 re	t by the	NMOCD mai	rked as "Final Re	ive actions for reli port" does not reli	eases which reve the opera	nay en itor of	danger liability
Signature:	A_	-					OIL CONS	ERVATION	DIVISIO	N	
Printed Name:	John Wierz	owiecki			A	pproved by E	nvironmental Spe	ecialist:			
Title: Operation	ns Manager				A	pproval Date:		Expiration I	Date:		
E-mail Address Date:	11-1-	zowiecki@bla 18		n 17-529-9488	Co	onditions of A	approval		Attached		

* Attach Additional Sheets If Necessary

APPENDIX – B Photo Documentation



Point of Release, facing south

4/24/17



Excavated area, facing south

4/24/17



Excavated area, facing south

4/24/17



Excavated area, facing northwest

4/24/17







Initial release area, facing northeast



Source of leak 4/8/17



Initial release, facing north

4/8/17











2/9/18 **Excavated Area**



2/9/18 **Excavated Area**







Excavated Area 2/9/18



2/9/18 **Excavated Area**



2/9/18 **Excavated Area**







2/9/18 **Excavated Area**



Excavated Area 2/9/18



Excavated Area 2/9/18



Backfilling Area 2/15/18



Backfilled Area 2/27/18

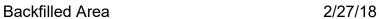


Backfilled Area 2/27/18



2/27/18 **Backfilled Area**







Backfilled Area 2/27/18



Backfilled Area 2/27/18



Backfilled Area 2/27/18

APPENDIX – C Analytical Reports



June 29, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: STATE K

Enclosed are the results of analyses for samples received by the laboratory on 04/25/17 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017 Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 1 @ 1' (H701098-01)

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	04/27/2017	ND	448	112	400	11.3	
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	274	50.0	04/26/2017	ND	217	108	200	3.51	
DRO >C10-C28	5340	50.0	04/26/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	933	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	123	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	138	% 347-15	7						

Surrogate: 1-Chlorooctadecane 138 % 34.7-157

530 %

34.7-157

Sample ID: FLOOR 1 NW (H701098-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1190	50.0	04/26/2017	ND	217	108	200	3.51	
DRO >C10-C28	23600	50.0	04/26/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	4690	50.0	04/26/2017	ND					

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Celey D. Keene

Surrogate: 1-Chlorooctadecane



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017

Reported: 06/29/2017 Sampling Type: Soil
Project Name: STATE K Sampling Condition: Cool

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 1 EW (H701098-03)

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	04/27/2017	ND	448	112	400	11.3	
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	61.2	50.0	04/26/2017	ND	217	108	200	3.51	
DRO >C10-C28	2270	50.0	04/26/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	564	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	75.7 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	102 %	% 34.7-15	7						

Sample ID: FLOOR 1 WW (H701098-04)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1620	50.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	16400	50.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	2860	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	175	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	374	% 34.7-15	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017

Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 2 @ 2' (H701098-05)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/27/2017	ND	448	112	400	11.3	
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	220	50.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	2400	50.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	505	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	99.0 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	106 %	6 34.7-15	7						

Sample ID: FLOOR 2 EW (H701098-06)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2017	ND	448	112	400	11.3	
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	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	271	10.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	42.9	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	85.7 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.79	% 34 7-15	7						

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260

(575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017 Reported: 06/29/2017 Sampling Type: Soil

Fax To:

Project Name: STATE K Sampling Condition: Cool & Intact Sample Received By: Project Number: #2 Tamara Oldaker

BLACK MOUNTAIN - LEA CO Project Location:

Sample ID: FLOOR 2 WW (H701098-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1510	50.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	7570	50.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	1140	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	160	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	169	% 34.7-15	7						

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04/24/2017



Analytical Results For:

Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/25/2017 Reported: 06/29/2017

Sampling Type: Soil Project Name: STATE K Sampling Condition: Cool & Intact Sample Received By: Project Number: #2 Tamara Oldaker

Sampling Date:

BLACK MOUNTAIN - LEA CO Project Location:

Sample ID: FLOOR 3 @ 3' (H701098-08)

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	04/29/2017	ND	1.87	93.4	2.00	0.114	
Toluene*	0.349	0.050	04/29/2017	ND	1.93	96.5	2.00	0.819	
Ethylbenzene*	0.575	0.050	04/29/2017	ND	1.94	97.1	2.00	0.802	
Total Xylenes*	2.71	0.150	04/29/2017	ND	5.79	96.5	6.00	0.883	
Total BTEX	3.63	0.300	04/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 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	224	16.0	04/27/2017	ND	448	112	400	11.3	
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	<50.0	50.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	2170	50.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	464	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	83.4	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	104	% 34.7-15	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

 Received:
 04/25/2017
 Sampling Date:
 04/24/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 3 EW (H701098-09)

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: AC						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	<10.0	10.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	82.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.8	% 34.7-15	7						

Sample ID: FLOOR 3 WW (H701098-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	110	10.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	17.8	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	94.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.8	% 34.7-15	7						

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017

Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact Sample Received By: Project Number: #2 Tamara Oldaker

BLACK MOUNTAIN - LEA CO Project Location:

Sample ID: FLOOR 4 @ 4' (H701098-11)

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: AC						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	107	50.0	04/27/2017	ND	217	108	200	3.51	
DRO >C10-C28	5120	50.0	04/27/2017	ND	233	117	200	4.68	
EXT DRO >C28-C36	920	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	103 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	134 %	6 34.7-15	7						

106 %

34.7-157

Sample ID: FLOOR 4 WW (H701098-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.8	10.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	1520	10.0	04/26/2017	ND	225	112	200	0.492	QM-07
EXT DRO >C28-C36	237	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	96.9	% 28.3-16	4						

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Celeg D. Keene

Surrogate: 1-Chlorooctadecane



Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017 Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact Sample Received By: Project Number: #2 Tamara Oldaker

BLACK MOUNTAIN - LEA CO Project Location:

Sample ID: FLOOR 4 EW (H701098-13)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	<10.0	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	13.4	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	82.2	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	82.3	% 34.7-15	7						

Sample ID: FLOOR 5 @ 3' (H701098-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2017	ND	448	112	400	11.3	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	<10.0	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	<10.0	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	91.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.0	% 34.7-15	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

 Received:
 04/25/2017
 Sampling Date:
 04/24/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 5 WW (H701098-15)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	66.1	50.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	1870	50.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	261	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	108 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	114 %	6 34.7-15	7						

Sample ID: FLOOR 5 EW (H701098-16)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/27/2017	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1290	50.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	9160	50.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	1360	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	220 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.5	% 34.7-15	7						

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Fax To: (575) 396-1429

 Received:
 04/25/2017
 Sampling Date:
 04/24/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 6 @ 3' (H701098-17)

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	04/27/2017	ND	416	104	400	7.41	
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	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	16.0	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	24.8	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	84.9 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	85.0 9	% 34.7-15	7						

Sample ID: FLOOR 6 WW (H701098-18)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	82.8	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	17.2	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	88.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.5	% 34.7-15	7						

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 Received:
 04/25/2017
 Sampling Date:
 04/24/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 6 EW (H701098-19)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	<10.0	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	<10.0	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	91.0 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.4 9	% 34.7-15	7						

Sample ID: FLOOR 7 @ 3' (H701098-20)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	479	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	83.4	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	86.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.3	% 34.7-15	7						

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Received: 04/25/2017 Sampling Date: 04/24/2017

Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 7 EW (H701098-21)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/27/2017	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1130	50.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	11000	50.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	1750	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	232	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.4	% 34.7-15	7						

Sample ID: FLOOR 7 WW (H701098-22)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/27/2017	ND	416	104	400	7.41	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	1290	50.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	302	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	102 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.0 %	6 34.7-15	7						

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(0.5)333 2.

Received: 04/25/2017 Sampling Date: 04/24/2017

Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 8 @ 3' (H701098-23)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	576	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	100	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	91.1	% 28.3-16							
Surrogate: 1-Chlorooctadecane	87.4	% 34.7-15	7						

Sample ID: FLOOR 8 EW (H701098-24)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2017	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	841	50.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	9720	50.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	1400	50.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	215 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.8 9	% 34.7-15	7						

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 Received:
 04/25/2017
 Sampling Date:
 04/24/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 8 WW (H701098-25)

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	04/27/2017	ND	416	104	400	7.41	
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	88.2	10.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	2560	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	429	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	102	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	114	% 34.7-15	7						

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Fax To: (575) 396-1429

Received: 04/25/2017 Reported: 06/29/2017

Project Name: STATE K Project Number: #2

BLACK MOUNTAIN - LEA CO Project Location:

Sampling Date: 04/24/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FLOOR 9 @ 1' (H701098-26)

BTEX 8021B	mg/	mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2017	ND	1.87	93.4	2.00	0.114	
Toluene*	<0.050	0.050	04/29/2017	ND	1.93	96.5	2.00	0.819	
Ethylbenzene*	0.116	0.050	04/29/2017	ND	1.94	97.1	2.00	0.802	
Total Xylenes*	0.571	0.150	04/29/2017	ND	5.79	96.5	6.00	0.883	
Total BTEX	0.686	0.300	04/29/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	135	% 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	16.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	14.2	10.0	04/26/2017	ND	222	111	200	0.615	
DRO >C10-C28	393	10.0	04/26/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	101	10.0	04/26/2017	ND					
Surrogate: 1-Chlorooctane	86.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.5	% 34.7-15	7						

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Received: 04/25/2017 Sampling Date: 04/24/2017 Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: #2

BLACK MOUNTAIN - LEA CO Project Location:

Sample ID: FLOOR 9 WW (H701098-27)

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	04/27/2017	ND	416	104	400	7.41	
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	04/27/2017	ND	222	111	200	0.615	
DRO >C10-C28	<10.0	10.0	04/27/2017	ND	225	112	200	0.492	
EXT DRO >C28-C36	11.1	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	92.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.2	% 34.7-15	7						

106 %

34.7-157

Sample ID: FLOOR 10 @ 2' (H701098-28)

Chloride, SM4500CI-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	04/27/2017	ND	416	104	400	7.41	
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	116	10.0	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	976	10.0	04/27/2017	ND	207	103	200	11.0	QM-07
EXT DRO >C28-C36	145	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	101	% 28.3-16	4						

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Celeg D. Keene

Surrogate: 1-Chlorooctadecane



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Fax To: (575) 396-1429

 Received:
 04/25/2017
 Sampling Date:
 04/24/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 10 EW (H701098-29)

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	04/27/2017	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	4130	50.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	814	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	88.3 %	28.3-16	54						
Surrogate: 1-Chlorooctadecane	158 %	6 34.7-15	7						

Sample ID: FLOOR 10 WW (H701098-30)

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	04/27/2017	ND	416	104	400	7.41	
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	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	<10.0	10.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	86.5	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	98.0	% 34.7-15	7						

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017 Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: #2

BLACK MOUNTAIN - LEA CO Project Location:

Sample ID: FLOOR 10 SW (H701098-31)

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	04/27/2017	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1710	50.0	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	11200	50.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	1920	50.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	177	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	254	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 254 % 34.7-157

133 %

34.7-157

Sample ID: FLOOR 11 @ 0.5' (H701098-32)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	1320	10.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	259	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	103	% 28.3-16	4						

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Celeg D. Keine

Surrogate: 1-Chlorooctadecane



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date: 04/24/2017

Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 11 EW (H701098-33)

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	04/27/2017	ND	416	104	400	7.41	
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	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	1210	10.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	226	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	88.2 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 %	6 34.7-15	7						

Sample ID: FLOOR 11 WW (H701098-34)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/27/2017	ND	416	104	400	7.41	
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	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	<10.0	10.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	15.6	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	77.8 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.3 9	% 34.7-15	7						

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04/24/2017

Soil



Analytical Results For:

Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/25/2017 Sampling Date:

Reported: 06/29/2017 Sampling Type:

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 11 SW (H701098-35)

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/27/2017	ND	400	100	400	7.69	
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	04/27/2017	ND	192	95.9	200	7.61	
DRO >C10-C28	28.6	10.0	04/27/2017	ND	207	103	200	11.0	
EXT DRO >C28-C36	12.0	10.0	04/27/2017	ND					
Surrogate: 1-Chlorooctane	62.1	% 28.3-16	74						
Surrogate: 1-Chlorooctadecane	67.6	% 34.7-15	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	75) 393-2476	22.00 det de	B///	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				ANALYSIS REQUEST	
Company Name:	Basin Environmental Service Technologies, LLC	ice Technologies, LLC			201010101010101010101010101010101010101	4	-			
Project Manager:	Robbie Runnels		P.O. #:			_				
Address: P.O.	P.O. Box 301		Company:	: Black Mountain	untain	_	_			_
City: Lovington		State: NM Zip: 88260	Attn:					_		
#	(575)396-2378 Fa	Fax #: (575)396-1429	Address			_	_		_	
		Project Owner: Black Mountain	untain City:			_		IB)		
ame:	State K #2		State:	NM Zip:		ide	015	302		
	1 14		Phone #:			_	_	(8	_	
Project Location:	Lea		Eav #			_	_	EX		
Sampler Name:	Robbie Runnels		Fay	SAMPLING		_	-	вт		
FOR LAB USE ONLY		R	MAIRIX							
Lab I.D.	Sample I.D.	RAB OR (C)O ONTAINERS OUNDWATE ASTEWATER	UDGE "HER:	E / COOL THER :						
4701098		#	s s		9:30	×	×			
1	Floor 1 @ 1'	_			9:35	×	×			
2	Floor 1 NW			× 4/24/17	9:40	×	×			
C.	Floor 1 EW	-		_	9:45	×	×			
4	Floor 1 WW	0 00	× >		9:50	×	×			
5	Floor 2 @ 2"	+			9:55	×	×			
6	Floor 2 EW	_	× 3	4/24/17	10:00	×	×			
1	Floor 2 WW	0 4	×		10:05	×	×	×		
o a	Floor 3 @ S	0 0	×	⊀ 4/24/17	10:10	×	×			
	1 2000	0 1	×	× 4/24/17	C1:01	×	,	F		
PLEASE NOTE: Liability at analyses. All claims including	FIGOR 3 VV VV nd Damages. Cardinal's liability and client's ex- ng those for negligence and any other cause w	FIGOR 3 VV VV FIGOR 5 VV VV PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclasive remedy for any claim arising whether based in contract or tort, shall be finited to the amount paid by the client for the applicable please. Cardinal's lability and client's exclasive remedy for any claim arising whether based in contract or tort, shall be finited to the amount paid by the client for the applicable arising those for registerized 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 arising those for registerized any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable arising those for registerized any other causes what the client for the shall be deemed whether based in contract or tort, shall be finished to the amount paid by the client for	ed in contract or tort, shall be limite in writing and received by Cardinal demoptions, bass of use, or loss of	d to the amount paid by the d within 30 days after completic profits incurred by client, its su	ient for the in of the applicable bsidiaries.					
service. In no event shall Card affiliates or successors arising. Relinquished By:	ed By:	Date: Received By:	Cardral, repartless of whather such claim is based upon any or the above assessment Received By:	E STATE SHEET	Phone Result: Fax Result: REMARKS:	sult:	☐ Yes	No No	Add"I Fax #:	
Relinquished By:	y:	Date: 35-17 Received By:	rora Elle	CHECKED BY:	Please e	mail r	esults	to pm@b	Please email results to pm@basinenv.com	
Delivered B	Delivered By: (Circle One)		Cool Intact Pes Yes	(Mitials)						
Sampler - UPS	Sampler - UPS - Bus - Other:	0.40	□ No □ No	12.4.00	1			E7E 203_2476	M76	

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Company Name: Basin Environments Project Manager: Robbie Runnels	Basin Environmental Service Technologies, LLC	es, LLC	BILL IO		+	1		
) +·					
			F.O. #.					
Address: P.O. Box 301			Company: Bla	Black Mountain				
City: Lovington	State: NM Z	Zip: 88260	Attn:					
Phone #: (575)396-2378	Fax #: (575)396-1429	1429	Address:				_	
	Project Owner:	Black Mountain	City:		_	1B)		
Project Name: State K #2			State: NM Zip:	ride	015	_		
Broject Location: Lea			Phone #:	do	_	_	1	
Project Location.			Fax #	Ch	_	_		
Sampler Name: Robbie Runnels			7		_	_		
		MATRIX	PRESERV. SA	SAMPLING	_	_		
Lab I.D. Sample I.D.		G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME				
#761070 Floor 4 @ 4'		1 ×	×	+	+	×		
Eloor A WW		9 1 ×	× 4/24/17	1	×	*	+	
2 Eloca EW		9 1 x	→ 4/24/17	+	×	×	+	
,		0 1 ×	4/24/17	\vdash	×	×	+	
Floor 5 @ 3		<u>.</u>	4 4/24/17	\vdash	×	×	-	
AAAA C 1001 S				4/24/17 10:33	×	×		
Hoor 5 EW				4/24/17 10:36	×	×	Г	
_				4/24/17 10:37	×	×	-	
18 Floor 6 WW		9 - X	-	+	×	×		
19 Floor 6 EW		9 J	_	-	×	×		
Floor 7 @ 3' Floor 7 and 3' Floor 7 PLEASE NOTE: Labelity 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 the client for the application of the application of the purpose. Cardinal within 30 days after completion of the application of the application of the purpose.	client's exclusive remedy for any clai	m arising whether based in contract or to	rt, shall be limited to the amount paid wed by Cardinal within 30 days after	by the client for the completion of the applicable				
PLEASE NOTE: Learny and American and any other cause whatcomer shall be deemed walved urbes made in writing and income of valuation and of the course of the	gence and any other cause whatsoever shall be deemed for incidental or consequental damages, including without test to the performance of services hereunder by Cardin.	d waived unless made in writing and incored by Johanna minimizers and by client, its sub- it similation, business interruptions, loss of use, or loss of profits incurred by client, its sub- al, regardless of whether such claim is based upon any of the above stated reasons or or	use, or loss of profits incurred by dis sed upon any of the above stated re	ert, its subsidiaries, asors or otherwise.	7	Yes		
Relinquished By:	Date:	Received By:		Fax Result:		Yes	□ No	
R L	Time:			KEMAKNO				
Relinquished By:	Date: + 25-17 time: , s	Received By:	The state of the s	Please em	iail res	ults to	pm@ba	Please email results to pm@basinenv.com
Delivered By: (Circle One)	0.00	Sample Condition	dition CHECKED BY:	34:				

Sampler - UPS - Bus - Other:

FORM-006 Revision 1.0

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476				ANALYSIS REQUEST	
ompany Name:	Basin Environmental Service Technologies, LLC	TC	OLE 19			
Robbie Runnels	Robbie Runnels		P.O. #:			
Dect manager.						
ddress: P.O. Box 301	ox 301		Company: Black Mountain			
Lovington	State: NM Zip: 88260	88260	Attn:			
	(575)396-2378 Fax #: (575)396-1429	9	Address:			
Project #:	Project Owner:	Black Mountain	City:	-		
Project Name: State K #2	tate K #2		State: NM Zip:	ide 015		
Project Location: Lea	Lea		Phone #:	(8)		
Robbie Runnels	ohhie Runnels		Fax #:	РН		
Sampler Maille.		MATRIX	PRESERV. SAMPLING	_		
		MO125				

City: Lovington		State. INIV.	mile: come			_	_	_	_		_
#:	(575)396-2378	Fax #: (575)396-1429	-1429	Address:					_		_
		Project Owner:	Black Mountain	City:		MA\	_				_
Project Name: St	State K #2			State: NM Zip:		ide		7			_
Project Location:	Lea			Phone #:			_				_
Sampler Name: Ro	Robbie Runnels			1		_	TE				_
FOR LAB USE ONLY Lab I.D.	Sample I.D.	l.D.	RAB OR (C)OMP. ONTAINERS OUNDWATER STEWATER L JDGE	HER:	SAMPLING						
H701098			G W S	A 10	177 10:50	×	×	-			
_	Floor 7 EW			-	+	×	×				
22 F	Floor 7 WW		I	1	+	×	×				
_	Floor 8 @ 3'			7 1/2// C	01:10	×	×	+			
24 F	Floor 8 EW			4/24/17	1/215	×	×				
	Floor 8 WW		-	-	177 /1:20	×	×	×			
26 F	Floor 9 @ 1'		9	7	#		1	7	1		
75	Floor 8 EW			-	1	×	×		À		
0	Floor 9 WW			_	ep. 11 - 21/1	×	×				
200	Floor 10 @ 2'		9 1	-	+	×	×			_	
PLEASE NOTE: Liability and C	Floor 10 EW Damages, Cardinal's liability and clie	ent's exclusive remedy for any cl	FIGOR 10 EW 9 11 X 9 11 X 1 FIGURE 10 ENTER SHORT 10 EW 9 11 X 9	ort, shall be limited to the amount paid intended by Cardinal within 30 days after o	by the client or the applicable						
analyses. All claims including to service. In no event shall Card	nal be liable for incidental or conservation or related to the performance	quental damages, including with of services hereunder by Card	analyses. All claims including trose for regigence or any own security and the second	f use, or loss of profits incurred by one assed upon any of the above stated rea	sons or otherwise.	7	Yes		Add'l Phone #:		
Relinquished By:		Date:	Received By:		Fax Result:		□ Yes	□ No	Add'l Fax #:		
No.		Time:			NEW PRINCE	ì					
Relinquished By:		Date: 5-17	Received By:	1100							
		Time:	Rinara	CHECKEDBY		nail res	sults to	pm@ba	Please email results to pm@basinenv.com		
Delivered By: (Circle One)	(Circle One)		- "								
Sampler - UPS - Bus - Other:	Bus - Other:	8	8.90 TYPES TYPES	No TOA	N						1
Sampler - UPS -	BUS - Oulei	0	Ī	No		١	١				

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2476	575) 393-24	6		A STATE OF THE STA		100 171 171 171 171 171 171 171 171 171	١			ANAI YSIS R	REQUEST	
Company Name:	- 1	vice Technolo	gies, LI	C		BILL 10	1000	1	1	+	_		
Project Manager:					P.O. #:					_	_		
Address: P.O	P.O. Box 301				Company:	Black Mountain	untain	_		_	_		_
OV.		State: NM	Zip: 8	88260	Attn:								
e #:	(575)396-2378 Fa	Fax #: (575)396-1429	5-1429		Address:				_				
Project #:	Pr	Project Owner:	В	Black Mountain	City:				1)	B)			
Project Name:	State K #2		H		State: NM	Zip:		ride	015N	3021			
Project Location:	: Lea				Phone #:			hloi	1 (80	X (8			
Sampler Name:	Robbie Runnels				Fax #:	1		С	PH	TE			
FOR LAB USE ONLY					PRESERV	SAMPLING	ā		7	Е			
Lab I.D.	Sample I.D.		G)RAB OR (C)O	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME		-				
010101	Floor 10 WW		9	×	×	4/24/17	12:00	×	×	+	-		
2/4	Floor 10 SW		9	×	×	4/24/17	12:03	×	×	+		+	
27	Floor 11 @ 0.5'		9	×	×	4/24/17	12:06	×	×	+			
Z.	Floor 11 EW		9	×	×	4/24/17	R0:71	×	×	+			
200	Floor 11 WW		9	×	X	4/24/17	12:12	×	×	+			
S.	Floor 11 SW		g	×	×	4/24/17	12:15	×	×				
PLEASE NOTE: Liability of analyses, All claims including	PLEASE NOTE: Liability and Damages. Cardinat's liability and clerit's succlusive remody for any clemanistic whether based in contract or tort, shall be limited to the amount paid by the client for the publicable cardinates and any other causes whatsoever shall be deemed watered unknown made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other causes whatsoever shall be deemed watered unknown made in writing and received by Cardinal within 30 days after completion of the applicable.	sizsive remedy for any obstacles remedy for any obstacles are the deep demandes, including with	daim arising ned waiwed out limitatio	whether based in contract or tort unless made in writing and receive on, business interruptions, loss of t	shall be limited to the od by Cardinal within 30 se, or loss of profits in	amount paid by the cli) days after completio curred by client, its su	ent for the n of the applicable baidiaries.						
affliance or successors arising out of or rela	one out of or related to the performance of services.	Date: Re	Rec	regardless of whether such claim is based upon any of the above susted as Received By:	d upon any of the abo	e sento rossura vi	Phone Result: Fax Result: REMARKS:	×	□ Yes	O No	Add'I Phone #: Add'I Fax #:		
Relinquished By:		Date: 4-35-1/	Rec	Received By:	12	A.	Please er	nail re	sults	o pm@l	Please email results to pm@basinenv.com		
Delivered B			000	Sample Condition Cool Intact Yes Yes	7 5	(Initials)							
Sampler - UP	Sampler - UPS - bus - Culei.		00.1		10 0-	11/1			١				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 □ No □ No

FORM-006 Revision 1.0



June 29, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: STATE K

Enclosed are the results of analyses for samples received by the laboratory on 06/09/17 14:50.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

 Received:
 06/09/2017
 Sampling Date:
 06/08/2017

 Reported:
 06/29/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP 10 S WALL (H701525-01)

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	06/12/2017	ND	199	99.5	200	1.37	
DRO >C10-C28	<10.0	10.0	06/12/2017	ND	204	102	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	06/12/2017	ND					
Surrogate: 1-Chlorooctane	82.2 9	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	74 6 9	% 347-15	7						

Sample ID: STOCK PILE (H701525-02)

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	06/12/2017	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	06/12/2017	ND	199	99.5	200	1.37	
DRO >C10-C28	<10.0	10.0	06/12/2017	ND	204	102	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	06/12/2017	ND					
Surrogate: 1-Chlorooctane	85.7	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	76.5	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/09/2017 Sampling Date: 06/08/2017

Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: Cool & Intact
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 1 @ 3' (H701525-03)

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	06/12/2017	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	06/12/2017	ND	199	99.5	200	1.37	
DRO >C10-C28	76.7	10.0	06/12/2017	ND	204	102	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	06/12/2017	ND					
Surrogate: 1-Chlorooctane	88.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.1	% 34.7-15	7						

Sample ID: FLOOR 4 @ 5' (H701525-04)

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	06/12/2017	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	06/12/2017	ND	199	99.5	200	1.37	
DRO >C10-C28	<10.0	10.0	06/12/2017	ND	204	102	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	06/12/2017	ND					
Surrogate: 1-Chlorooctane	86.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.7	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene



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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



(575) 393-2326 FAX (575) 393-2476

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June 29, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: STATE K

Enclosed are the results of analyses for samples received by the laboratory on 06/13/17 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/13/2017 Sampling Date: 06/12/2017
Reported: 06/29/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP 5 EW (H701547-01)

TPH 8015M	mg/k	ιg	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	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND					
Surrogate: 1-Chlorooctane	98.5 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.4 %	6 34.7-15	7						

Sample ID: SP 7 EW (H701547-02)

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	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND					
Surrogate: 1-Chlorooctane	108 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.1 %	% 34.7-15	7						

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Celeg D. Keene



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/13/2017

Reported: 06/29/2017 Project Name: STATE K

Project Number: #2
Project Location: BLACK MOUNTAIN - LEA CO

Sampling Date: 06/12/2017 Sampling Type: Soil

Sampling Condition: ** (See Notes)

Sample Received By: Tamara Oldaker

Sample ID: SP 8 EW (H701547-03)

TPH 8015M	mg/l	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	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND					
Surrogate: 1-Chlorooctane	105 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.3 %	6 34.7-15	7						

Sample ID: SP 1 NW (H701547-04)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/14/2017	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	59.0	50.0	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	1220	50.0	06/14/2017	ND	191	95.5	200	3.48	
EXT DRO >C28-C36	244	50.0	06/14/2017	ND					
Surrogate: 1-Chlorooctane	91.0 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.1 %	6 34.7-15	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Pes Yes
No No

CHECKED BY: (Initials)

Please email results to pm@basinenv.com

FORM-006 Revision 1.0

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

3-17 Received By:



July 27, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: STATE K

Enclosed are the results of analyses for samples received by the laboratory on 07/14/17 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/14/2017 Sampling Date: 07/13/2017
Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 1 @ 3' (H701831-01)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	<0.050	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

Sample ID: FLOOR 2 @ 2' (H701831-02)

	'kg	Anaiyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/19/2017	ND	1.89	94.3	2.00	2.20	
0.097	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
<0.300	0.300	07/19/2017	ND					
	<0.050 0.097 <0.050 <0.150	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/14/2017 Sampling Date: 07/13/2017

Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 4 @ 4' (H701831-03)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	<0.050	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

Sample ID: FLOOR 5 @ 3' (H701831-04)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	0.055	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/14/2017 Sampling Date: 07/13/2017
Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 6 @ 3' (H701831-05)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	0.128	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	< 0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	< 0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 104 % 72-148

Sample ID: FLOOR 7 @ 3' (H701831-06)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	<0.050	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017
Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 8 @ 3' (H701831-07)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	0.082	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

Sample ID: FLOOR 10 @ 2' (H701831-08)

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	07/19/2017	ND	1.89	94.3	2.00	2.20	
Toluene*	<0.050	0.050	07/19/2017	ND	1.88	94.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	2.05	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	6.09	102	6.00	0.563	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

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 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: FLOOR 11 @ 0.5' (H701831-09)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.141	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 103 % 72-148

Sample ID: SP1 NW (H701831-10)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	<0.050	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 104 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017
Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP1 EW (H701831-11)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.090	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 104 % 72-148

Sample ID: SP1 WW (H701831-12)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	<0.050	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 104 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017

Reported: 07/27/2017 Sampling Type: Soil
Project Name: STATE K Sampling Condition: ** (

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP2 EW (H701831-13)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
<0.050	0.050	07/19/2017	ND	1.78	89.1	2.00	0.408	
0.050	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
<0.300	0.300	07/19/2017	ND					
	Result <0.050 0.050 <0.050 <0.150	Result Reporting Limit <0.050 0.050 0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050 0.050 07/19/2017 0.050 0.050 07/19/2017 <0.050 0.050 07/19/2017 <0.150 0.150 07/19/2017	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

Sample ID: SP2 WW (H701831-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.246	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	0.103	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	0.762	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	1.11	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 115 % 72-148

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 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Fax To:

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP3 EW (H701831-15)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	<0.050	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

Sample ID: SP3 WW (H701831-16)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	<0.050	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 107 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017

Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP4 EW (H701831-17)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.194	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	0.175	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	0.369	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 111 % 72-148

Sample ID: SP4 WW (H701831-18)

BTEX 8021B	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.060	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 110 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017

Reported: 07/27/2017 Sampling Type: Soil

Fax To:

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP5 EW (H701831-19)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.068	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 112 % 72-148

Sample ID: SP5 WW (H701831-20)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.183	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	0.160	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	0.343	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 111 % 72-148

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 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP6 EW (H701831-21)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.151	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	0.166	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	0.317	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 110 % 72-148

Sample ID: SP6 WW (H701831-22)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.137	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 107 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017

Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP7 EW (H701831-23)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.062	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 107 % 72-148

Sample ID: SP7 WW (H701831-24)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.094	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

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Fax To: (575) 396-1429

 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP8 EW (H701831-25)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.139	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

Sample ID: SP8 WW (H701831-26)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	0.074	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

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 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP9 WW (H701831-27)

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	07/19/2017	ND	1.78	89.1	2.00	0.408	
Toluene*	<0.050	0.050	07/19/2017	ND	1.80	89.9	2.00	1.11	
Ethylbenzene*	<0.050	0.050	07/19/2017	ND	1.95	97.3	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/19/2017	ND	5.82	97.0	6.00	1.74	
Total BTEX	<0.300	0.300	07/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

Sample ID: SP10 EW (H701831-28)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2017	ND	1.93	96.5	2.00	0.942	
Toluene*	<0.050	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
Total BTEX	<0.300	0.300	07/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

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Fax To: (575) 396-1429

 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Reported: 07/27/2017 Sampling Type: Soil

Project Name: STATE K Sampling Condition: ** (See Notes)

Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP10 WW (H701831-29)

EX 8021B	mg/kg	Analyz	ed By: MS							
Analyte	Result Reporting	Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
nzene*	<0.050 0.050	07/20/2017	ND	1.93	96.5	2.00	0.942			
luene*	<0.050 0.050	07/20/2017	ND	1.95	97.6	2.00	1.07			
nylbenzene*	<0.050 0.050	07/20/2017	ND	2.12	106	2.00	1.32			
tal Xylenes*	<0.150 0.150	07/20/2017	ND	6.30	105	6.00	1.08			
tal BTEX	<0.300 0.300	07/20/2017	ND							
•		. ,		6.30	105		6.00	6.00 1.08		

Surrogate: 4-Bromofluorobenzene (PID 106 % 72-148

Sample ID: SP10 SW (H701831-30)

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	1.93	96.5	2.00	0.942	
Toluene*	<0.050	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
Total BTEX	<0.300	0.300	07/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

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 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP11 EW (H701831-31)

mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/20/2017	ND	1.93	96.5	2.00	0.942	
<0.050	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
<0.050	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
<0.150	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
<0.300	0.300	07/20/2017	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050 0.050 07/20/2017 <0.050 0.050 07/20/2017 <0.050 0.050 07/20/2017 <0.150 0.150 07/20/2017	Result Reporting Limit Analyzed Method Blank <0.050 0.050 07/20/2017 ND <0.050 0.050 07/20/2017 ND <0.050 0.050 07/20/2017 ND <0.050 0.050 07/20/2017 ND <0.150 0.150 07/20/2017 ND	Result Reporting Limit Analyzed Method Blank BS <0.050 0.050 07/20/2017 ND 1.93 <0.050 0.050 07/20/2017 ND 1.95 <0.050 0.050 07/20/2017 ND 2.12 <0.150 0.150 07/20/2017 ND 6.30	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

Sample ID: SP11 WW (H701831-32)

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	1.93	96.5	2.00	0.942	
Toluene*	<0.050	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
Ethylbenzene*	< 0.050	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
Total BTEX	<0.300	0.300	07/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

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Received: 07/14/2017 Sampling Date: 07/13/2017

Reported: 07/27/2017 Sampling Type: Soil
Project Name: STATE K Sampling Condition: **(

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: SP11 SW (H701831-33)

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	1.93	96.5	2.00	0.942	
Toluene*	0.100	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
Total BTEX	<0.300	0.300	07/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 105 % 72-148

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Fax To: (575) 396-1429

 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: PILE NORTH (H701831-34)

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	1.93	96.5	2.00	0.942	
Toluene*	0.105	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
Ethylbenzene*	<0.050	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
Total Xylenes*	<0.150	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
Total BTEX	<0.300	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	४ Analyzed By: AC						
Analyte	Result Reporting Limit		Analyzed Method Blank		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0 16.0		07/17/2017 ND		416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed 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	4.26	
DRO >C10-C28	152	10.0	07/18/2017	ND	214	107	200	3.63	
Surrogate: 1-Chlorooctane	83.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.2	% 347-15	7						

Surrogate: 1-Chlorooctadecane 93.2 % 34.7-157

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Fax To: (575) 396-1429

 Received:
 07/14/2017
 Sampling Date:
 07/13/2017

 Reported:
 07/27/2017
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: PILE SOUTH (H701831-35)

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	1.93	96.5	2.00	0.942	
Toluene*	0.249	0.050	07/20/2017	ND	1.95	97.6	2.00	1.07	
Ethylbenzene*	0.055	0.050	07/20/2017	ND	2.12	106	2.00	1.32	
Total Xylenes*	0.309	0.150	07/20/2017	ND	6.30	105	6.00	1.08	
Total BTEX	0.613	0.300	07/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	64.0 16.0		07/17/2017 ND		416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed 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	4.26	
DRO >C10-C28	158	10.0	07/18/2017	ND	214	107	200	3.63	
Surrogate: 1-Chlorooctane	85.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.3	% 34.7-15	7						

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Celey D. Keine

Cardinal Laboratories

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	76		1			
Company Name: Basin Environmental Service Technologies, LLC	gies, LLC	BILL TO			ANALYSIS REQUEST	
Project Manager: Robbie Runnels	P.O. #:	*				
Address: P.O. Box 301	Com	Company: Black Mountain				
City: Lovington State: NM Zip: 88260	Zip: 88260 Attn:	***				
Phone #: (575)396-2378		Address: Dode				
20	: *TO Energy * City:	Mountur		1)		
Project Name: State K #2	Black Mounton State:	e: NM Zip: 88260	ide	15N	021	
Project Location: Lea	Pho	Phone #:	lor	(80	(8)	
Sampler Name: Karanja Lewis	Fax#:	#	Ch	РН		
FOR LAB USE ONLY	S ER MATRIX	PRESERV. SAMPLING		1		
Lab I.D. Sample I.D.	G)RAB OR (C) CONTAINERS GROUNDWATE WASTEWATER SOIL DIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER : DATE TIME				

		XS:	DEMARKS			-		1.11.		
Add'l Fax #:			Fax Result:				COLLEGE	1/w/17	.:	Relinquished By:
Add'I Phone #:	☐ Yes ☐ No	20	Phone Result:			Phoenivad Rv.	Received Ry	of services hereunder by Cardina, in	ssors arising out of or related to the performance of services hereunder by Caronia	filiates or successors arisi
		8	tion of the applical	lays after complet	Cardinal within 30 o	ased in contract or tort, shall e in writing and received by	ising whether be wed unless mad	nt's exclusive remedy for any claim an ause whatsoever shall be deemed wai	PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remody for any claim arising whether based in contract or fort, stable brinted to the amount para by the competion of the applicable 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 competed to client it as absoluteries.	E NOTE: Liability an
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	×		10:30	7/13/17	×	×	_	Q	Eloor 11 @ 0.5'	۵
									1 1001 10 W C	0
			10.20	1110111	×	×	-	0	Eloor 10 @ 2'	P

12810Lt

TWN

9 9

×

7/13/17

10:00

10:05

7/13/17 7/13/17

10:10

×

9:50 TIME

×

7/13/17 7/13/17

9:55

×

Floor 5 @ 3' Floor 4 @ 4' Floor 2 @ 2' Floor 1 @ 3'

Floor 8 @ 3' Floor 7 @ 3' Floor 6 @ 3'

9 9 9 9

× × × ×

7/13/17 7/13/17 7/13/17

10:25 10:20 10:15

× × × × × × OIL SLUDGE OTHER ACID/BASE: ICE / COOL

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Cool Intact
Yes Yes
No No

FORM-006 Revision 1.0

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

5.90

Sample Condition

CHECKED BY:

Please email results to pm@basinenv.com, amy_Ruth@xtoenergy.com

* Changed as par Robbie. 7/27/17. Ok

(Initials

n u

Relinquished By:

Date: 7/19/17 Time:

Received By:

Time:

Page 22 of 25

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(0,0) 000 -0-0	١	۱									ANALYSIS REQUEST	
Company Name:	Basin Environmental Service Technologies, LLC	ologies,	C				OILL IO	200				_	
Project Manager:				-	P.O. #:								
Address: P.O.	P.O. Box 301				Company:	ny:	Black Mountain	untain					
City: Lovington	State: NM	Zip: 88260	88		Attn:								
Phone #: (575	(575)396-2378 Fax #: (575)396-1429	396-142	9		Address:	SS							
Project #:	Project Owner:		XX	XIO Energy	City:					1)	В)		
ame:	State K #2	Black	3	Black Mountain:	State:	N	Zip: 8	88260	de	15N	021		
Project Location:	Lea				Phone #:	#			lor	(80	(8		
Sampler Name:	Karanja Lewis				Fax #:				Ch	PH	ΓE		
		·.	_	MATRIX	PR	PRESERV.	SAMPLING	G		Т	В		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE:	ICE / COOL OTHER :	DATE	TIME					
11	SP1 EW	9		×		×	7/13/17	10:40			×		
13	SP1 WW	9	٦	×		×	7/13/17	10:45	H		×		
14	SP2 EW	9	-	×	H	×	7/13/17	10:50			×		
1	SP2 WW	9	-	×		×	7/13/17	10:55			×		
7	SP3 EW	9	-	×	-	×	7/13/17	11:00			×		
16	SP3 WW	9	4	×	H	×	7/13/17	11:05			×		
7	SP4 EW	9	-	×	-	×	7/13/17	11:10		T	×		
2	SP4 WW	9	-	×	H	×	7/13/17	11:15			×		
.0	SP5 EW	9	_	×		×	7/13/17	11:20	T	T	×		
25	SP5 WW	9	1	×		×	7/13/17	11:25	Г	Г	×		
PLEASE NOTE: Liability as	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 the client for the	any claim ans	on who	ther based in contract or tort, s	shall be lim	ted to the ar	nount paid by the die	nt for the					
	analyses. All claims including those for negligence and any other cause wransourcer sum or other course of order including those for negligence and any other cause wransourcer sum or oth	deemed warn	d unies	s made in writing and received	by Cardin	al within 30 d	red by client, its sub	of the applicable	0				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Please email results to pm@basinenv.com, amy_Ruth@xtoenergy.com

Revision 1.0 FORM-006 Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Time:

Date: \/w//> Time: 7:06

Received By:

Relinquished By:

Date: Night

Received By:

Fax Result: REMARKS:

Phone Result:

□ Yes

8 8

Add'I Phone #: Add'I Fax #:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	76			ANALYSIS REQUEST
ompany Name: Basin Environmental Service Technologies, LLC	gies, LLC	BILL 10		ANAL OIG REGOLO.
roject Manager: Robbie Runnels		P.O.#:		
ddress: P.O. Box 301		Company: Black Mountain		
ity: Lovington State: NM Zip: 88260	Zip : 88260	Attn:		
hone #: (575)396-2378 Fax #: (575)396-1429	5-1429	Address:		
	Project Owner: XTO Energy	City:	1)	В)
ame: State K#2	Black Mountain	State: NM Zip: 88260	ide 15N	0211
Project Location: Lea		Phone #:	lor	C (8
Sampler Name: Karanja Lewis		Fax#:	_	TE
FOR LAB USE DILLY	MATRIX	PRESERV. SAMPLING	_	В
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE		

SOIL

> 7/13/17 7/13/17

11:30 11:35

100000	Delivered By: (Circle One) 5.98 15:30 Sampler - UPS - Bus - Other: / What delivered like the control of the con	Mr. L. Time: 4.30	Relinquished By: Date:	Sign fam Time: 71cb	Relinquished By:	PLEASE NOTE: Lability and Damages. Cardinal's lability and clern's exclusive remody for any cleim arising wholfer based in contract or fort, said or arison but an analyses. All claims including those for regigence 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 analyses. All claims including those for regigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the substitution of the second of the substitution o	36 SP10 SW	29 SP10 WW	28 SP10 EW	2) SP9EW WW	24 SP8 WW	25 SP8 EW	24 SP7 WW	23 SP7 EW	22 SP6 WW	21 SP6 EW
	6.15	1	Re			y claim arisin emed waived vithout limitati ardinal, regar	9	9	9	9	9	9	9	9	9	9
		de	ceived		Received By:	g whether but unless mad on, business of why	1	-	_		_	_	_	_	_	_
	Sample Condition Cool Intact Yes TYes No No No	mara k	By:	In 1	By:	a raingy whether based in contract of ront, shall be amond to the amond year of whether which is dependent of the washed unless made in writing and received by Cardinal within 30 days after completion of the imitation, business ritempations, loss of use, or loss of profits incurred by client, its subsidiaries imitation, business ritempations, loss of use, or loss of profits incurred by client, its subsidiaries (reparatises of whether such claim is based upon any of the above stated reasons or otherwise.	×	×	×	×	×	×	×	×	×	×
	4	Male	2			or loss of prof pon any of the	×	×	×	×	×	×	×	×	×	×
	CHECKED BY: (Initials)	May	1	1		hin 30 days after on fits incurred by client above stated reason	7/13/17		-			F		-	-	-
-	7		1	R	Fa	mpletion of th , its subsidiar ons or otherw	17	+	+	+	+	+	+	+	+	+
-		ease email		REMARKS:	Fax Result:	plicable	12:15	12:10	CU.21	12.00	11:55	11:50	11:45	11:40	11:35	11:30
nace to		results			□ Yes		r	+		1		1	1			
hanges to 575-393-2476		to pm@			No No	1	×	×	>	. >	×	×	×	×	×	×
476		Please email results to pm@basinenv.com, amy_Ruth@xtoenergy.com			1.1					+						
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		oenergy.com					-								+	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Revision 1.0 FORM-006

Page 24 of 25

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Somely weeken	AR AR	
Rasin Environmental Service Technologies, L	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	

(575) 393-2326 FAX (575) 393-2476	AX (575) 393-2476			2000	POLIFET
Company Name: Basin Environmenta	Basin Environmental Service Technologies, LLC	BILL TO		ANALYSIS KEG	KEQUEST
Project Manager: Robbie Runnels		P.O. #:			
Address: P.O. Box 301		Company: Black Mountain			
City: Lovington	State: NM Zip: 88260	Attn:			
Phone #: (575)396-2378	Fax #: (575)396-1429	Address:			
	Project Owner: XTO Energy	City:		_	
Project Name: State K #2	Black Mountain	State: NM Zip: 88260		-	
Project Location: Lea		Phone #:	nlori	(80 X (8	
Sampler Name: Karanja Lewis		Fax #:	-		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		_	
Lab I.D. Sample I.D.	OR (C)OM TAINERS NDWATER	GE R: AASE: OOL R:			

State: NM Zip: 88260 Attn: State	Address: P.O.	Box 301		Company:	Black Mountain	5			
State K #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2	vingto		IM Zip: 88260	Attn:					
State K #2 State K #2 State: NM Zip: 86 Phone #: Pho	(575		75)396-1429	Address:					
State K #2 State K #2 But Done #: Fax #: F				City:				1)	_
Sample I.D. Sample I.D. Sample I.D. Sample I.D. Spring Reserve Sampling Reserved By: Time: 170 Sample Condition Fax #: F	oject Name:	State K #2	Black Mountain	N			_	15N	021
Sample I.D. Sample I.D. Sample I.D. OR INTRIX PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN OR INTRIX OR INTRIX PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN OR INTRIX OR INTRIX PRESERV. SAMPLIN PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN PRESERV. SAMPLIN OR INTRIX PRESERV. SAMPLIN O	Project Location:			Phone #:		hlor		(80	-
SP11EW SP11WW SP11SW SP11SW	Sampler Name:	Karanja Lewis		Fax #:			C	-	гРН
Lab I.D. Sample I.D. RESIDENCE THE WARREST TIME C.	FOR LAB USE ONLY		R	PRESERV.	SAMPLING			1	_
SP11EW SP11WW SP11SW SP11SW	Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER : ACID/BASE: ICE / COOL		M .			
SP11 WW SP1 SP11 WW SP1 SP11 WW SP1 SP11 WW SP1 North C 1	2		-	×		20	1		×
37 SP11SW 38 Pile North C 1	72		_	×		2:25			×
Pile South S Pile South C 1	33		-	×	-	+	ч		×
Pile South C 1 X X 7/13/17 12:35 X Pile South C 1 X X 7/13/17 12:35 X Pile South C 1 X X 7/13/17 12:35 X Pile South C 1 X X 7/13/17 12:35 X Pile South C 1 X X 7/13/17 12:35 X Pile South C 1 X X 7/13/17 12:35 X Time: 7 W Received By: Cool Intact Cool Intact C 1 (X X 7/13/17 12:35 X Time: 7 W Reason Cool Intact C 1 (X X X 7/13/17 12:35 X Time: 7 W Reason Cool Intact C 1 (X X X 7/13/17 12:35 X Time: 7 W Reason Cool Intact C 1 (X X X 7/13/17 12:35 X Time: 7 W Reason Please email Please email	74		1	×	۲		1 6	1	×
EASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the subyess. All claims including those for regigence and any other cause whatsoever shall be deemed whether based in contract or tort, shall be limited to the amount paid by the client for the performance of services hereunder by Cardinal whites made in writing and received by Cardinal within 30 days after completion of the applicable finding out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise. Time: 7:00 Received By: Time: 7:00 Cool Infact (Initials) Please ema Delivered By: (Circle One) \$.92 Times: 7:00 Cool Infact (Initials)	33	Pile South	-	×		2:35		X	×
EASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remody for any diam arising whether based in contract or tort, shall be limited to the amount paid by the client for the salyses. All claims including those for negligence and any other causes whatscener shall be the demend waived unless made in writing and received by Candrali within 30 days after completion of the applicable rates. In or event shall Candral be liable for incidental or consequential damages, including without interest interruptions, boas of use, or loss of profits incurred by client, its subsidiaries, its limited to the performance of services hereunder by Cardral, regardless of whether such claim is based upon any of the above stated measons or otherwise. Phone Result: Fax Result: Received By: Time:							1 1 1		
Received By: Refinquished By: Time: 7:00 Refinquished By: Time: 470 Date: 415 Sample Condition Cool Intact (initials) CheckED BY: Cool Intact (initials)	NEASE NOTE: Liability a	nd Damages. Cardinal's lability and client's exclusive remoding those for negligence and any other cause whatsoever sh	y for any claim arising whether based in contract or all be deemed waived unless made in writing and re- tailing without limitation to internations, loss	tort, shall be limited to the amou ceived by Cardinal within 30 days of use, or loss of profits incurre	unt paid by the client for s after completion of the d by client, its subsidiari	he applicable is,	- 1		
	Relinquished B	y: (Circle One) \$582	re by Candral, regardless of whether such claim is (ry/n Received By: (ry/n Sample Con Cool Inta	based upon any of the above stated in the abov	and reasons or otherwi-	ne Result: Result: MARKS:	= ""	il results	5

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



February 16, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: STATE K

Enclosed are the results of analyses for samples received by the laboratory on 02/09/18 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 02/09/2018
 Sampling Date:
 02/08/2018

 Reported:
 02/16/2018
 Sampling Type:
 Soil

Project Name: STATE K Sampling Condition: ** (See Notes)
Project Number: #2 Sample Received By: Tamara Oldaker

Project Location: BLACK MOUNTAIN - LEA CO

Sample ID: CALICHE STOCK PILE (H800431-01)

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	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEX	<0.300	0.300	02/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148	?						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/12/2018	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	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					
Surrogate: 1-Chlorooctane	77.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	78.6	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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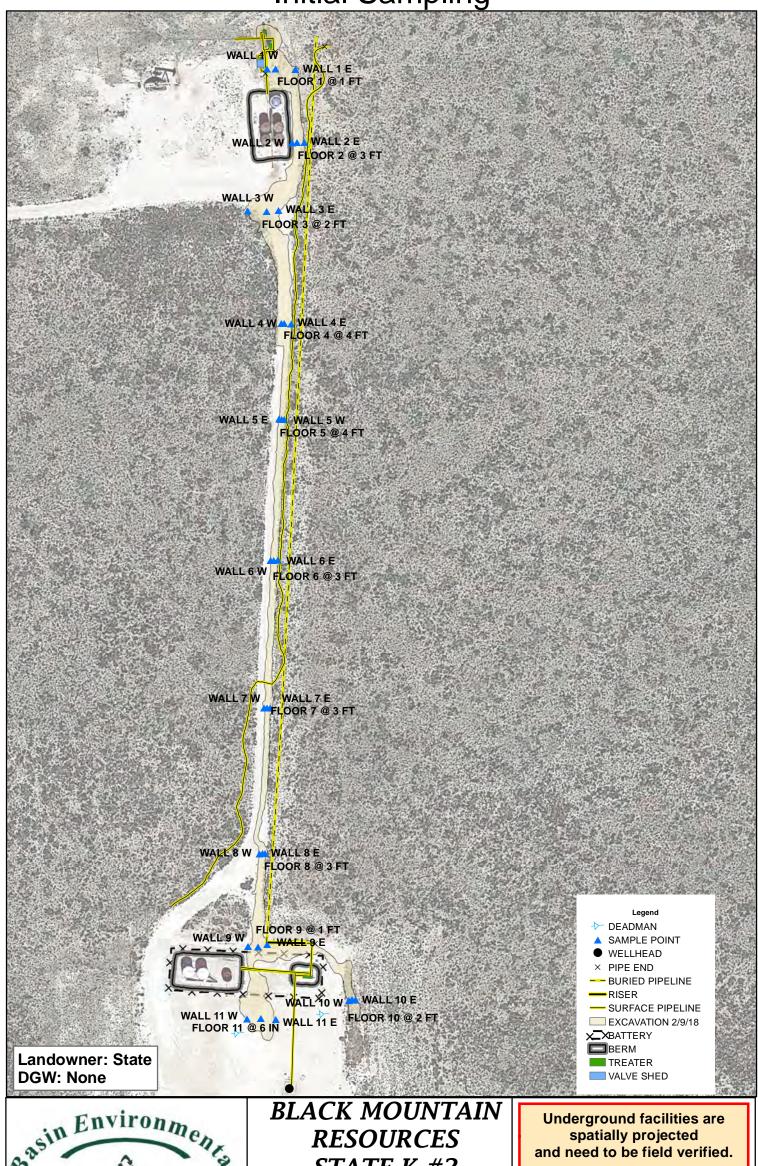
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Project Manager: Robbie Runnels Company: P.O. Box 301 Company: Black Mountain
Box 301 Company:
ovington State: NM Zip: 88260
e#: (575)396-2378 Fax #: (575)396-1429 Address:
Project Owner: Black Mountain City:
ame: State K #2
Phone #:
Fax#:
ESERV SAMPLING
UDGE HER: ID/BASE: E / COOL
G W S O S O A W 2/8/18
PLEASE NOTE: Lability and Damagos. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the publication of the applicable of the applicable of the professional and any other cause whatsoever shall be deemed waived unless made in writing and received by Clarified within 30 days after completion of the applicable
sult: Yes No
ARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 Revision 1.0

Initial Sampling





STATE K #2

ULA&H SECTION 2 T-10-S R-33-E LEA COUNTY, NM

GPS: 33.481374 -103.532198 50 100

GPS date: 2/9/18 TG Drawing date: 2/9/18 Drafted by: T. Grieco

