Republic Backhoe Service, LLC

47 E. Dickens

Lovington, NM 88260

(575) 631-0131

March 13, 2020

District II

811 S. First St.

Artesia, NM 88210

Subject: Soil Remediation/Closure for the Saragossa 10 State #2, Eddy County, New Mexico

To Whom It May Concern,

On behalf of Read & Stevens, Inc. Republic Backhoe Service, LLC (RBS) has prepared this Soil Remediation/Closure Report associated with Saragossa 10 State #2. The site is located in Unit B, Section 10, Township 23 South, and Range 26 East, NMPM, Eddy County, New Mexico, on NM State land. Attachment #1 and #2 illustrates the vicinity and location of the site. Piedmont alluvial deposits from the Holocene to Pleistocene age make up the subsurface of the area (mrdata.usgs.gov, Attachment #3). The subsurface is comprised of Regan Upton soils which consist of loamy deposits of quaternary age that are moderately dark colored and loamy. Hard caliche is encountered at 3-4 feet below the loamy surface (Soil Survey Eddy Area, NM 1971). The soil is generally dry except in times of rain. The site is not within a 100year floodplain (FEMA FIRMette Map Attachment #9). The vegetation consists of black grama, blue grama, tobosa, sideoats, bush muhly, tarbush, creosote bush, vine mesquite, and yucca. The state of New Mexico owns the surface and is overseen by the State Land Office and leased out for grazing.

	Releas	e Details	
Type of Release:	0:1/0.4/	Volume of Release:	17.24-Oil 140.67-Produced Water
Type of Release:	Oil/PW	Volume Recovered:	2-Oil
Source of Release:	Well Head	Date of Discovery:	10/27/2018
Was Immediate Notice Given?	No	If, YES, to Whom?	
Was a Watercourse Reached?	No	If YES, Volume Impac	cting the Watercourse: NA
Surface Owner:	State	Mineral Owner:	State

Table 1. below, summarizes information regarding the release. (See Attachments #10, #12, #13)

Describe Cause of Problem and Remedial Action Taken:

The release was attributed to a 1" connection at the well head. The connection has since been replaced. A backhoe was called out on the day of the discovery which piled saturated soil on the pad.

Regulatory Guidelines

New Mexico Oil Conversation Division (NMOCD) regulates surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). In accordance to NMAC 19.15.29 the Saragossa 10 State #2 is assessed by the following guidelines:

	246 (ft bgs)
What is the shallowest depth to groundwater beneath the area affected by the release?	Ves No
Did this release impact groundwater or surface water?	Ves No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant	L Yes No
watercourse?	🗌 Yes 🗾 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	□ Yes No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or	
church?	🗆 Yes 🗖 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used	
by less than five households for domestic or stock watering purposes?	Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗾 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗾 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗾 No
Are the lateral extents of the release within a 100-year floodplain?	Yes 🗌 No
Did the release impact areas not on an exploration, development, production, or storage site?	
The release occurred within the following areas and will treat the release as if it occurred less than 50 feet to ground water.	

*Correction to Site Assessment/ Characterization: Saragossa 10 State #2 is not within a 100-year flood plain. Please see Attachment #9.

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within 2000 meters and identify registered water wells within 2500 meters of the release site. (Attachments #4, 5). Furthermore, a new NMOSE groundwater search was conducted once the north extent of the spill was found (Attachment #6, 7) and concluded that the horizontal extents of the spill fell within 500 feet of a private domestic fresh water well, and within 1000' of any other fresh water wells. The site will be remediated to the following guidelines:

		ble I s Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I TDS	Constituent	Method*	Linit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Site Assessment/Delineation

On November 15, 2018, RBS went to the location to delineate the site. According to the Spill Calculations (See Attachment 13) 89% of the release stayed on the well pad. The additional 11% of the release travelled along a compacted cattle path for approxately 825 feet to the north of the location (See Attachment 10). The release poses no threat to ground water as laboratory results conclude that no contamination was found at or below 2' (bgs). Furthermore, soil samples collected and analyzed at 5' (bgs) show constituents level significantly lower than NMOCD permissible levels. A backhoe was used to dig a total of 16 trenches at the site (See Attachment #8). Samples were collected from the surface, 2 feet (bgs), and 5 feet (bgs). The following table summarizes the laboratory analytical results from the soil samples collected during the site assessment:

Name	Date	Depth	Chlorides	Benezene	BTEX	TPH(DRO,GRO.EXT	Lithology	Soil Class	Pad/Pasture	Within 1000' FW
Pad1-S	11/15/18	Surface	1180	<0.500	6.73	24,969(309,20600,4060)	Sandy	ML	Pad	No
Pad1-2	11/15/18	2	32		< 0.300	<10.0	Loam	CL		
Pad1-5	11/15/18	5	144		< 0.300	<10.0	Caliche			
Pad2-S	11/15/18	Surface	1710	<0.500	1.17	13,537(107,11200,2230)	Sandy	ML	Pad	No
Pad2-2	11/15/18	2	16		< 0.300	<10.0	Loam	CL		
Pad2-2 Pad2-5	11/15/18	5	16		<0.300	12.4(0,12.4,0)	Caliche			
						1				
Pad3-S	11/15/18	Surface	30,800	<0.500	3.89	6,680(130,5370,1180)	Sandy	ML	Pad	No
Pad3-2	11/15/18	2	208		< 0.300	18.8(0,0,18.8)	Loam	CL		
Pad3-5	11/15/18	5	48.0		<0.300	<10.0	Caliche			
Pad4-S	11/15/18	Surface	4560		< 0.300	73.2(0,62.2,11.0	Sandy	ML	Pad	No
Pad4-2	11/15/18	2	96		< 0.300	<10.0	Loam	CL		
Pad4-2 Pad4-5	11/15/18	5	64		<0.300	53.3(0,38.4,14.9)	Caliche			
TA1-S	11/15/18	Surface	3200	<0.500	6.09	25,257(227,20900,4230)	Sandy	ML	Pasture	No
TA1-2	11/15/18	2	64		<0.300	<10.0	Loam	CL		
TA1-5	11/15/18	5	80		< 0.300	<10.0	Caliche			
TA2-S	11/15/18	Surface	6960	<0.500	2.64	32,924(274,27600,5050)	Sandy	ML	Pasture	Yes
TA2-2	11/15/18	2	48		< 0.300	<10.0	Loam	CL		
TA2-5	11/15/18	5	48		< 0.300	12.8	Caliche			
TA3-S	11/15/18	Surface	288	<1.00	15.2	34,302(642,28600,5060)	Sandy	ML	Pasture	Yes
TA3-2	11/15/18	2	48		< 0.300	<10.0	Loam	CL		
TA3-5	11/15/18	5	32		< 0.300	<10.0	Caliche			
TA4-S	11/15/18	Surface	256	<0.500	16.6	32,508(1000,45600,8250)	Sandy	ML	Pasture	Yes
TA4-2	11/15/18	2	48		<.300	<10.00	Loam	CL		
TA4-5	11/15/18	5	336		< 0.300	11.6	Caliche			
TA5-S	11/15/18	Surface	64		16.0	54,850	Sandy	ML	Pasture	Yes
TA5-2	11/15/18	2	32		<0.300	<10.0	Loam	CL		
TA5-5	11/15/18	5	16		< 0.300	<10.0	Caliche			
TA6-S	11/15/18	Surface	32	<0.500	25.9	48,360(1290,40100,6970)	Sandy	ML	Pasture	Yes
TA6-2	11/15/18	2	48		< 0.300	<10.0	Loam	CL		
TA6-5	11/15/18	5	80.0		<0.300	<10.00	Caliche	02		
TA7-S	11/15/18	Surface	16	<0.500	< 0.300	4.476(32.3810.634)	Sandy	ML	Pasture	Yes
TA7-2	11/15/18	2	96		< 0.300	<10.0	Loam	CL		
TA7-5	11/15/18	5'	80		<.300	12.3	Caliche			
TA8-S	11/15/18	Surface	48		< 0.300	14.8	Sandy	ML	Pasture	Yes
TA8-2	11/15/18	2	32		< 0.300	72.1	Loam	CL		
TA8-5	11/15/18	5	16		<0.300	48.7	Caliche			
TA9-S	11/15/18	Surface	32		< 0.300	110.5	Sandy	ML	Pasture	Yes
TA9-2	11/15/18	2	64		< 0.300	<10.0	Loam	CL		
TA9-5	11/15/18	5	96		<0.300	<10.0	Caliche			
TA10-S	11/15/18	Surface	32		<0.300	79.2	Sandy	ML	Pasture	Yes
TA10-2	11/18/18	2	32		< 0.300	<10.0	Loam	CL		
TA10-5	11/18/18	5	16		< 0.300	<10.0	Caliche			
TB1-S	11/15/18	Surface	160	<0.500	4.51	35,601(491,29800,5310)	Sandy	ML	Pasture	No
TB1-2	11/15/18	2	64		< 0.300	<10.0	Loam	CL		
TB1-5	11/15/18	5	48		< 0.300	<10.0	Caliche			
TB2-S	11/15/18	Surface	48	<0.500	1.71	43.778(398.36300.7080)	Sandy	ML	Pasture	no
TB2-2	11/15/18	2	64		< 0.300	<10.0	Loam	CL		
TB2-5	11/15/18	5	32		< 0,300	<10.0	Caliche			

Chlorides-mg/kg, SM4500CI-B BTEX-mg/kg, 8021B TPH-mg/kg, 8015M

Name	Date	Depth	Chloride	BTEX	TPH(GRO, DRO,EXT)	Lithology	Soil	Pad/	Within
		(feet)					Class	Pasture	1,000' FW
S 1-1	08/07/19	1	<16.0	<0.300	<10.0	Loam	CL	Pad	No
S 1-12	08/07/19	12	32	< 0.300	<10.0	Caliche	GM		
S 2-1	08/07/19	1	48	<0.300	<10.0	Loam	CL	Pad	No
S 2-12	08/07/19	12	16	< 0.300	<10.0	Caliche	GM		
S 3-1	08/07/19	1	<16.0	<0.300	<10.0	Loam	CL	Pad	No
S 3-12	08/07/19	12	16	<0.300	<10.0	Caliche	GM		
S 4-1	08/07/19	1	16	<0.300	<10.0	Loam	CL	Pasture	No
S 4-12	08/07/19	12	32	<0.300	<10.0	Caliche	GM		
S 5-1	08/06/19	1	16	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 5-12	08/06/19	12	16	< 0.300	<10.0	Caliche	GM		
S 6-1	08/06/19	1	16	<0.300	121.9(<10.0, 77.8, 44.1)	Loam	CL	Pasture	Yes
S 6-2	08/13/19	2	16	<0.300	<10.0	Loam	CL		
S 6-12	08/06/19	12	16	<0.300	<10.0	Caliche	GM		
S 7-1	08/06/19	1	<16.0	<0.300	223.9(<10.0, 143, 80.9)	Loam	CL	Pasture	Yes
S 7-2	08/13/20	2	16	< 0.300	<10.0	Loam	CL		
S 7-12	08/06/19	12	<16.0	< 0.300	<10.0	Caliche	GM		
S 8-1	08/06/19	1	<16.0	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 8-12	08/06/19	12	<16.0	< 0.300	<10.0	Caliche	GM		
S 9-1	08/06/19	1	<16.0	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 9-12	08/06/19	12	<16.0	<0.300	<10.0	Caliche	GM		
S 10-1	08/06/19	1	<16.0	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 10-12	08/06/19	12	<16.0	<0.300	<10.0	Caliche	GM		
S 11-1	08/06/19	1	<16.0	<0.300	<10.0	Loam	CL	Pasture	Yes
S 11-12	08/06/19	12	<16.0	< 0.300	<10.0	Caliche	GM		
S 12-1	08/06/19	1	<16.0	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 12-12	08/06/19	12	<16.0	< 0.300	<10.0	Caliche	GM		
S 13-1	08/06/19	1	16	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 13-12	08/06/19	12	16	< 0.300	<10.0	Caliche	GM		
S 14-1	08/06/19	1	<16.0	< 0.300	<10.0	Loam	CL	Pasture	Yes
S 14-12	08/06/19	12	<16.0	< 0.300	<10.0	Caliche	GM		
S 15-1	08/06/19	1	<16.0	<0.300	<10.0	Loam	CL	Pasture	No
S 15-12	08/06/19	12	<16.0	<0.300	<10.0	Caliche	GM		
S 16-1	08/06/19	1	<16.0	<0.300	<10.0	Loam	CL	Pasture	No
S 16-12	08/06/19	12	<16.0	<0.300	<10.0	Caliche	GM		
S 17-1	08/07/19	1	<16.0	<0.300	<10.0	Loam	CL	Pad	No
S 17-12	08/07/19	12	<16.0	< 0.300	<10.0	Caliche	GM		
S 18-1	08/07/19	1	32	< 0.300	<10.0	Loam	CL	Pad	No
S 18-12	08/07/19	12	16	<0.300	49.8(<10.0, <10.0, 49.8)	Caliche	GM		

Chlorides-mg/kg, SM4500Cl-B BTEX-mg/kg, 8021B TPH-mg/kg, 8015M

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Soil Sample GPS

Name	GPS	-	Pad/Pasture
Pad1 & S-17	32.325893°	-104.279635°	Pad
Pad2 & S-3	32.325912°	-104.279899°	Pad
Pad3 & S-1	32.325669°	-104.279886°	Pad
Pad4 & S-2	32.325735°	-104.280027°	Pad
TA1 & S-4	32.326057°	-104.279779°	Pasture
TA2 & S-5	32.326269°	-104.279642°	Pasture
TA3 & S-6	32.326468°	-104.279424°	Pasture
TA4 & S-7	32.326639°	-104.279288°	Pasture
TA5 & S-8	32.326830°	-104.279179°	Pasture
TA6 & S-9	32.327019°	-104.279077°	Pasture
TA7 & S-10	32.327302°	-104.278973°	Pasture
TA8 & S-11	32.327464°	-104.278845°	Pasture
TA9 & S-12	32.327622°	-104.278810°	Pasture
TA10 & S-13	32.327277°	-104.278747°	Pasture
TB1 & S-16	32.326042°	-104.279616°	Pasture
TB2 & S-15	32.326172°	-104.279530°	Pasture
S-14	32.326341°	-104.279446°	Pasture
S-18	32.325780°	-104.279731°	Pasture

Remediation/ Closure

Commencement Date: November 15, 2019

Completion Date: March 13, 2020

The following remedial activities are in accordance with 19.15.29.12 NMAC, remediation of releases on oil well pads. The remedial activities took place on the Saragossa 10 State #2 pad and surrounding pasture near the release. The release poses no threat to ground water.

The preliminary site delineation began on November 15, 2018 and concluded that the vertical extent of the release was less than 2' (bgs). A sample at 5' (bgs) further confirms this result. Further sampling concluded that the vertical extent of the spill did not exceed 1' (bgs) in all areas, except for a 180 Sq. Ft. area at sample locations S-6 and S-7. Samples at S-6 and S-7 meet closure criteria at 2' (bgs). Sample points TA8 and TA10 met closure criteria at the surface and no remedial activities were necessary (See Lab Analysis Tables).

Soil remediation began on May 13, 2019. Approximately 7,740 Sq. Ft. was excavated to a depth of 1 foot, totaling 287 cubic yards. The remaining area of 180 Sq. Ft. was excavated to a depth of 2 feet, totaling 13 yards (See Attachment #10). Approximately 300 cubic yards were excavated from the location and hauled to an NMOCD approved disposal site.

The original location size of Saragossa 10 State #2 was approximately 56,470 Sq. Ft. During remedial activities, the North side off the pad was downsized to reclaim land for New Mexico State Land Office. The reclaimed area of the pad measured approximately 22,275 Sq. feet, leaving the current size of the pad 34,195 Sq. feet (See Attachment #11). The reclaimed area was seeded along with the excavated area in the pasture on March 13, 2020.

Soil Samples S-1 through S-18 were completed on August 07, 2019. The excavated areas on the pad and the surrounding pasture of the location were back filled beginning August 26, 2019. Back filling was completed on August 30, 2019.

Revegetation and Noxious Weed Management

Seed Mixture: Warm Season SSR Grass Seed Mix 350 (See Attachment #15)

Seed Rate: Acre: 50 lbs./ Acre

Method of Dispersal: First, the area was disc. Second, used a no till seeder (rented from Lea County USDA Service Center). The area received ¾" of rain after seeding, and watering was not necessary. Photos were taken of the seed mixture bags, and all seeding activities. A total of 75 lbs. of seed mixture was dispersed at the location.

Follow up Monitoring Plan: The location will be monitored in the late summer (before the fall season). At that time, evaluation of growth in the area will determine if reseeding will be necessary. The area will also be monitored for noxious weeds. The area is small enough to rid the weeds mechanically.

Noxious Weeds Control

Republic Backhoe Service, LLC takes noxious weed control very seriously. All equipment and trucks are inspected before entering the pasture areas. The area will be monitored for the following noxious weeds (but not limited to):

Joint Goat Grass, Hoary Grass, Chest Grass, African Rus, Yellow Starthistle, Malta Starthistle, Purple Starthistle, Common Teasel, Camelthorn, and Russian Knapweed.

If you have any questions, please email me or call me at (575) 631-0131.

Thank you,

Ens Camp

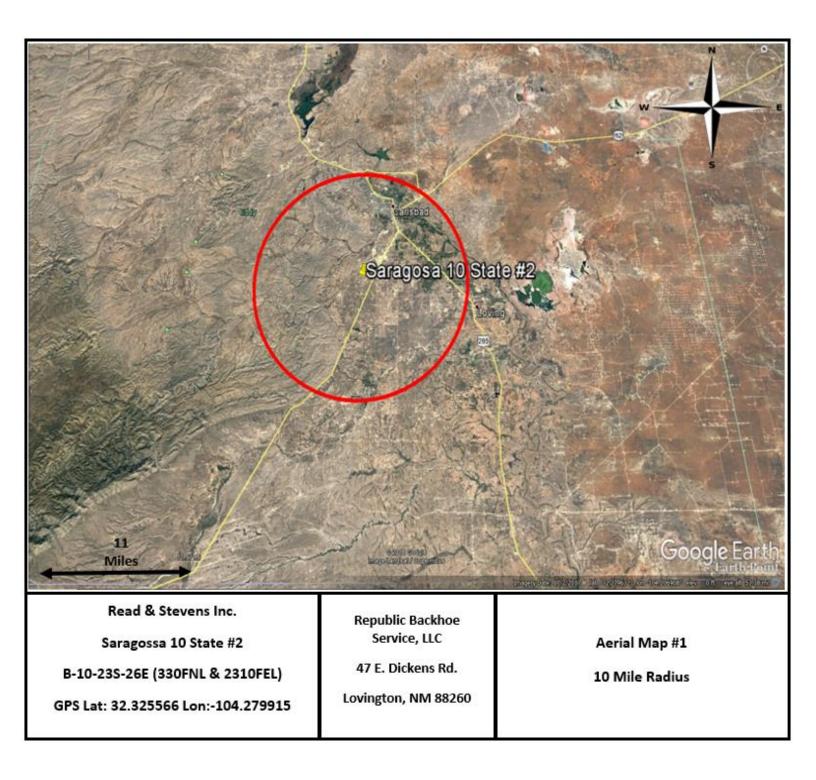
Eric Garcia Republic Backhoe Service, LLC

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Attachment 1

Vicinity Area Map

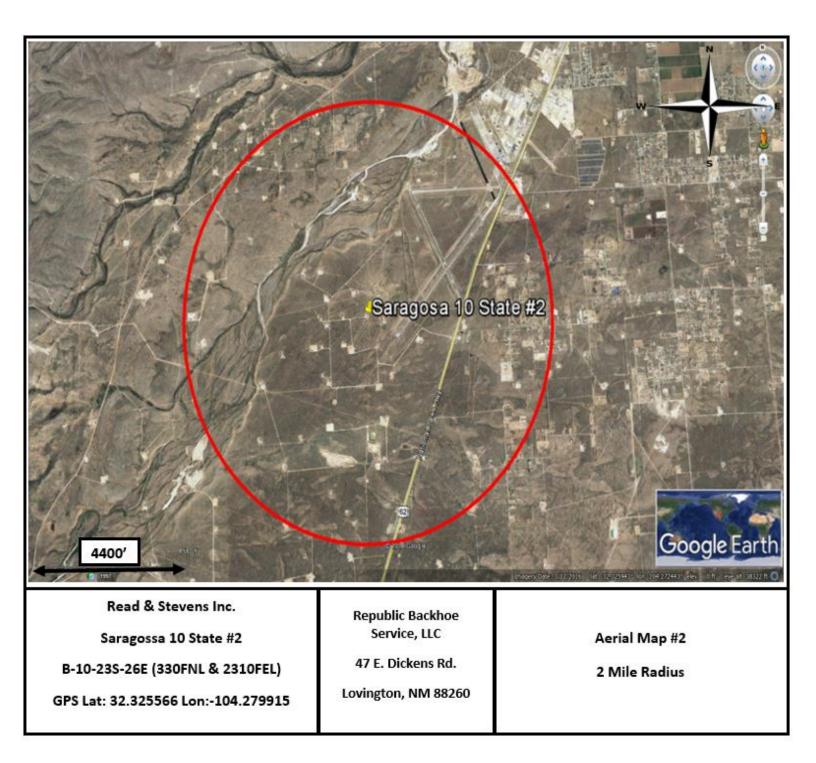


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Attachment #2

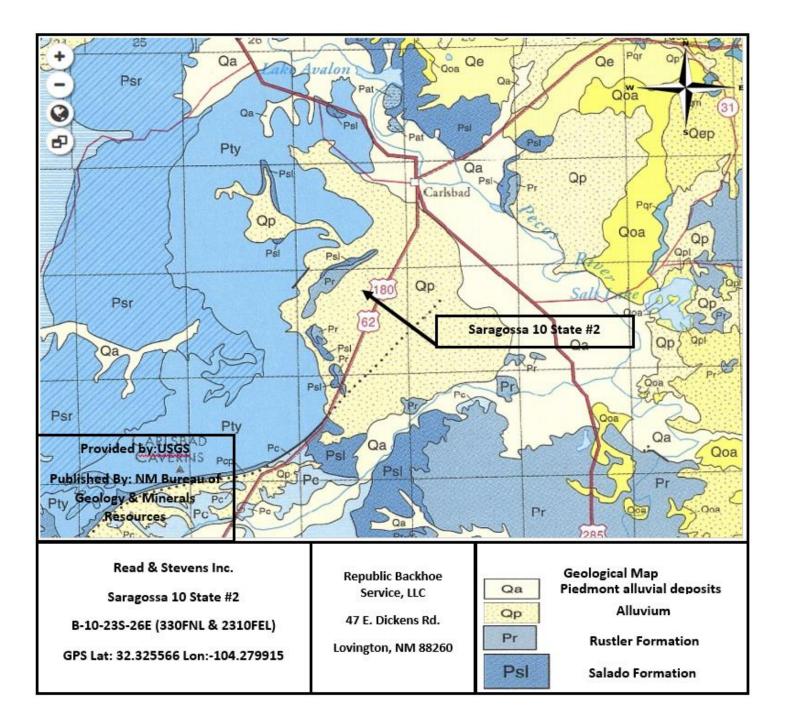
Vicinity Area Map



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Attachment #3

Geological Map



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Attachment #4

NMOSE Average Depth to Water

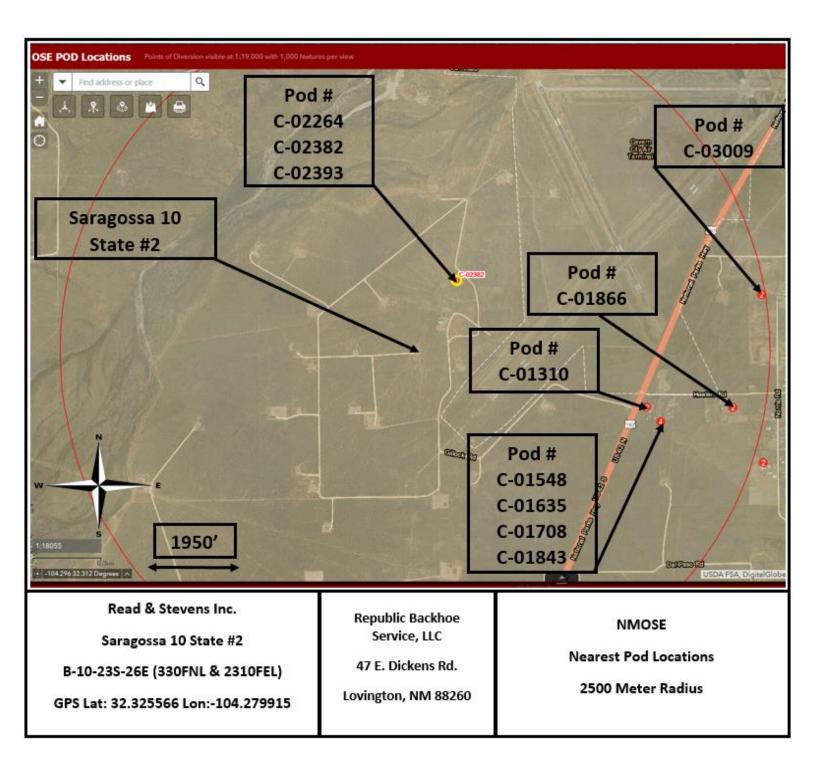
	W	ate							-	the State ge De	-		ter	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphar C=the file closed)	ied,	1					V 2=NE est to lar	3=SW 4=S gest) (N	E) IAD83 UTM in n	ueters)	(In f	eet)	
POD Number	Code	POD Sub-	County	100000			Twe	Png	x	Y	DistanceDep	thWallDen		ater
<u>C 02264</u>	code	CUB	ED	04	4		235	26E	568065	3577254*	579	260	in water co	i u ilu il
C 02382		с	ED		4	03	23S	26E	568065	3577254* 🌑	579	288	248	40
C 02393		с	ED		4	03	235	26E	568065	3577254*	579	290	245	4
C 01310		с	ED	1	3 2	11	235	26E	569409	3576366*	1675	250	220	3
C_01548		с	ED		3 2	11	235	26E	569510	3576267*	1798	250		
C 01635		с	ED		3 2	11	235	26E	569510	3576267* 🌍	1798	255	205	5
C 01708		с	ED		3 2	11	235	26E	569510	3576267*	1798	275	236	3
C 01843		с	ED		3 2	11	235	26E	569510	3576267*	1798	252	217	3
										Avera	ge Depth to Wat Minimum De Maximum Dej	pth:	228 fee 205 fee 248 fee	t
Record Count: 8														
UTMNAD83 Radius	Search (in	meters)	1											
Easting (X): 567	7777.68		North	ing	Y):	3576	5750.31	3		Radius: 2000				
*UTM location was derived	from PLSS -	see Help												
The data is furnished by the ? accuracy, completeness, reliab									erstanding th	at the OSE/ISC ma	ke no warranties,	expressed or in	nplied, concern	ung th
1/9/19 10:46 AM											WATER COL WATER	.UMN/ AVER	AGE DEPTI	I TO
Read & St	evens In	IC.		Τ				c Back			N	MOSE		
Saragossa	10 State	#2					Serv	ice, LL	С	10.00 (10.00 (10.00))			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	
B-10-235-26E (33	OFNI &	2310	FEL)			47	E. Di	ickens	Rd.	Water	Column/Av	erage De	pth to W	ate
GPS Lat: 32.32556					a	Lovir	ngtor	, NM	88260	1	2000 M	eter Rad	ius	

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Attachment #5

Pod Locations



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Attachment #6

Horizontal Extent of the Spill NMOSE Average Depth to Water

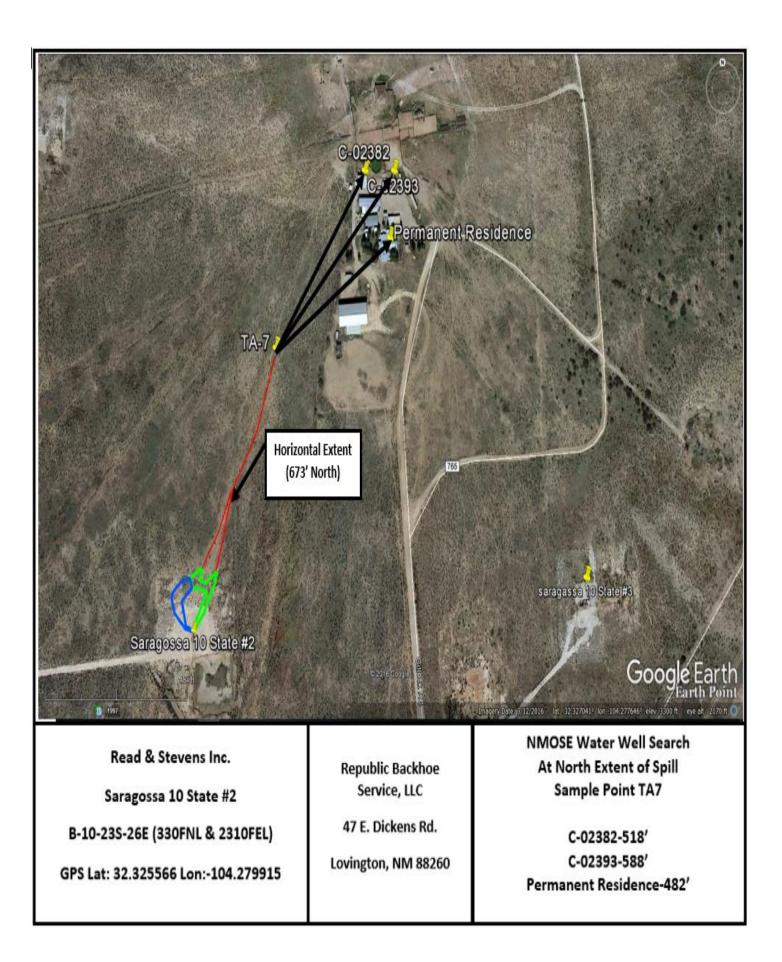
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	W	ate					00			e Engin epth to		ter	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD h replaced, O=orphane C=the file i closed)	ed,					V 2=NE est to la	: 3=SW 4=SI rgest) (N	E) AD83 UTM in 1	meters)	(In :	feet)	
POD Number <u>C 02264</u>		POD Sub- basin CUB	County ED		-	23S	Rng 26E	X 568065	¥ 3577254* 😜	DistanceDep 372	p thWellDep 260		ater lumn
<u>C 02382</u>		с	ED		4 03	238	26E	568065	3577254* 🌑	372	288	248	40
<u>C 02393</u>		С	ED		4 03	235	26E	568065	3577254* 🌑	372	290	245	45
Record Count: 3 <u>UTMNAD83 Radius</u> Easting (X): 567 *UTM location was derived The data is furnished by the N accuracy, completeness, reliab 1/10/19 9:03 AM	7864.77 from PLSS - 54 MOSE/ISC an	neters): ee Help d is acce	North	ning (Y): e recipien	: 357	6940.34	4 255ed um		Radius: 1000 at the OSE/ISC m		expressed or in	248 feet mplied, concern RAGE DEPTH	ing the
Read & St Saragossa B-10-23S-26E (33 GPS Lat: 32.32556	10 State 30FNL & 2	#2 2310F			4	Sen 7 E. C	vice, I Dicker	ckhoe LLC ns Rd. A 88260		Samp 1,000 C-0	/ater We h Extent o ble Point Meter Ra 02382-511 02393-58	of Spill TA7 adius B'	

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Attachment #7

Pod Locations

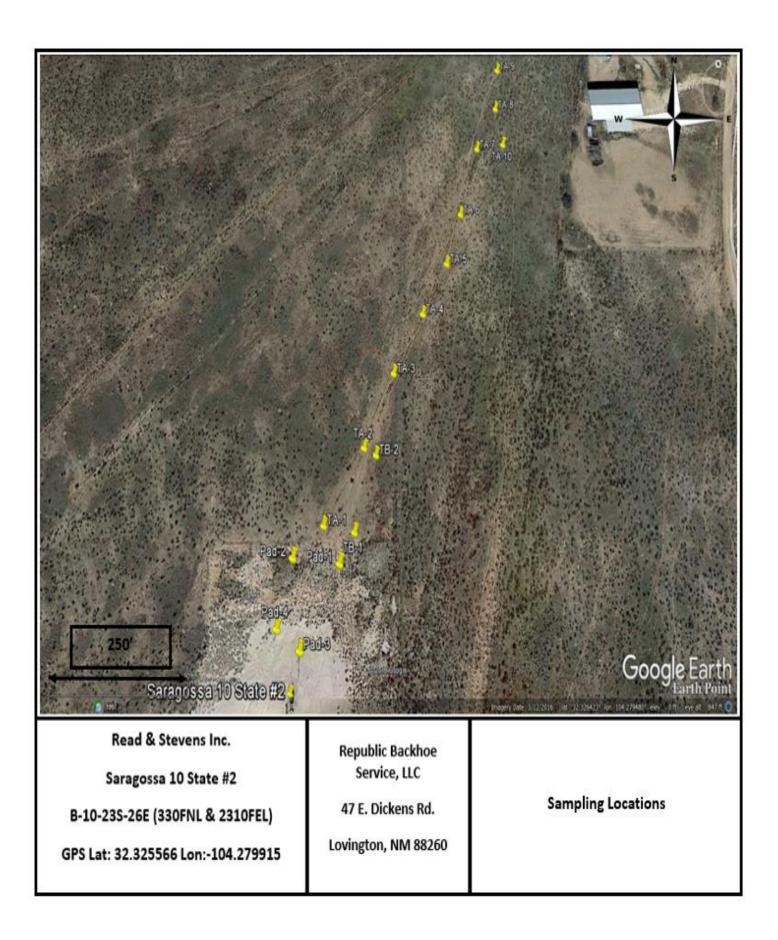


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Attachment #8

Sampling Locations





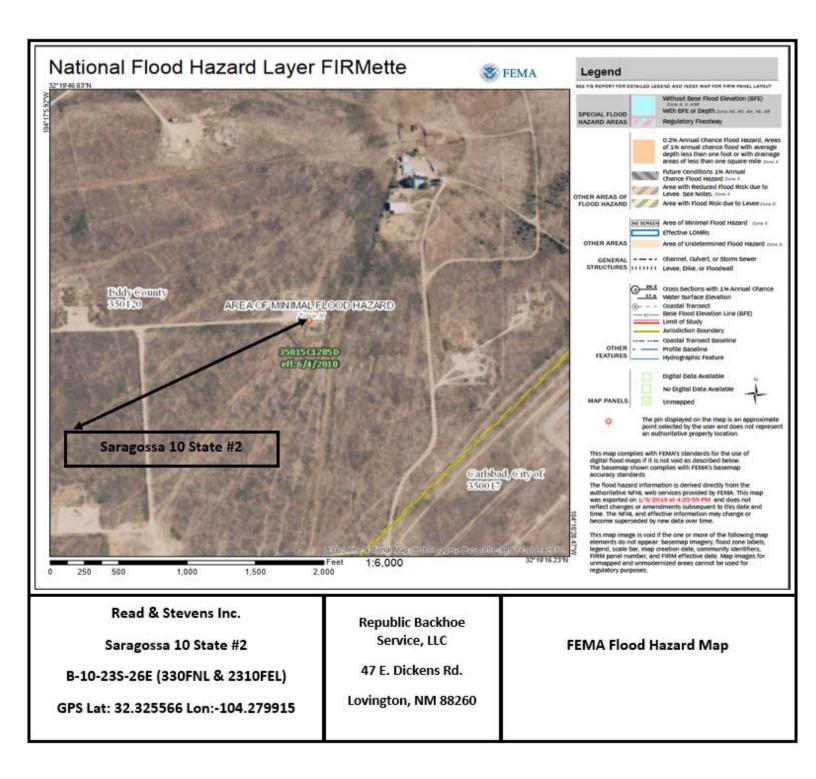


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Attachment #9

Floodplain Map

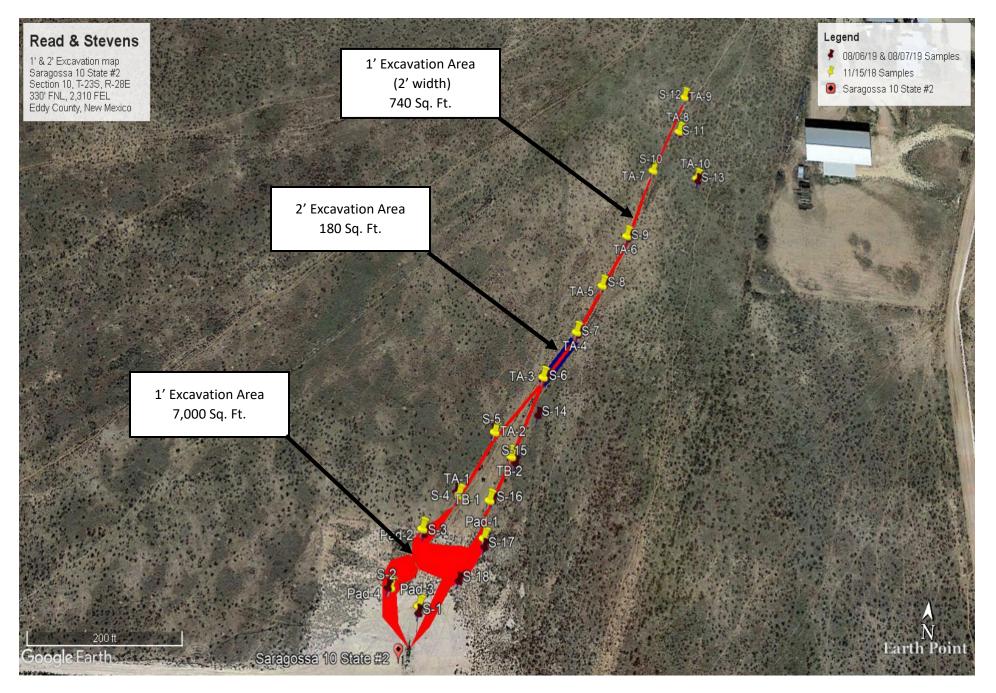


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Attachment #10

Spill and Excavation Map



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Attachment #11

Reclamation Map

Received by OCD: 3/16/2020 10:46:07 AM



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Attachment #12

Soil Description

			Porosity [-	·]	
Description	USCS	min	max	Specific value	Reference
Well graded gravel, sandy gravel, with little or no fines	GW	0.21	0.32		[1],
Poorly graded gravel, sandy gravel, with little or no fines	GP	0.21	0.32		[1],
Silty gravels, silty sandy gravels	GM	0.15	0.22		[1],
Gravel	(GW-GP)	0.23	0.38		[2],
Clayey gravels, clayey sandy gravels	GC	0.17	0.27		[1].
Glatial till, very mixed grained	(GC)	-	-	0.20	[4 cited in 5]
Well graded sands, gravelly sands, with little or no fines	sw	0.22	0.42		[1], [2],
Coarse sand	(SW)	0.26	0.43		[2],
Fine sand	(SW)	0.29	0.46		[2].
Poorly graded sands, gravelly sands, with little or no fines	SP	0.23	0.43		[1], [2],
Silty sands	SM	0.25	0.49		[1], [2],
Clayey sands	SC	0.15	0.37		[1].
Inorganic silts, silty or clayey fine sands, with slight plasticity	ML	0.21	0.56		[1].
Uniform inorganic silt	(ML)	0.29	0.52		[3].
Inorganic clays, silty clays, sandy clays of low plasticity	CL	0.29	0.41		[1],
Organic silts and organic silty clays of low plasticity	OL	0.42	0.68		[1], [3],
Silty or sandy clay	(CL-OL)	0.20	0.64		[3].
Inorganic silts of high plasticity	мн	0.53	0.68		[1],
Inorganic clays of high plasticity	СН	0.39	0.59		[1],
Soft glacial clay	-	-	-	0.55	[4 cited in 5]
Stiff glacial clay	-	-	-	0.38	[4 cited in 5]
Organic clays of high plasticity	ОН	0.50	0.75		[1], [3],
Soft slightly organic clay	(OH-OL)	-	-	0.66	[4] cited in [5]
Peat and other highly organic soils	Pt	-	-		[4 cited in 5]
soft very organic clay	(Pt)	-	-	0.75	[4] cited in [5]
REFERENCES					

Swiss Standard SN 670 010b, Characteristic Coefficients of soils, Association of Swiss Road and Traffic Engineers
 Das, B., Advanced Soil Mechanics. Taylor & Francis, London & New York, 2008.
 Hough, B., Basic soil engineering. Ronald Press Company, New York, 1969.
 Terzaghi, K., Peck, R., and Mesri, G., Soil Mechanics in Engineering Practice. Wiley, New York, 1996.
 Obrzud R. & Truty, A.THE HARDENING SOIL MODEL - A PRACTICAL GUIDEBOOK Z Soil.PC 100701 report, revised 31.01.2012

Citation : Geotechdata.info, Soil void ratio, http://geotechdata.info/parameter/soil-void-ratio.html (as of November 16, 2013).

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Attachment #13

Spill Calculations

***** LIQUID SPILLS - VOLUME CALCULATIONS ***** Date of Spill: <u>10/26/2018</u>

Location of Spill: <u>Saragossa 10 State #2</u>

Site Soil Type: ____<u>Sandy Loam & Caliche</u>

Average Daily Production: 13 BBL Oil 128 BBL Water

		Total A	re a Calculat	ions			
Total Sur	ace Area	Width	Length	Wet Soil Depth	Oil (%)	Soil Class.	Porosity%
Polygon #1	3,755			6"	5	GM	0.15
Polygon #2	3,664			10"	5	GM/ML	0.18
Polygon #3	644			4"	99	ML/CL	0.25
Polygon #4	173			1/16"	99	ML	0.21
Saturated So	oil Volume	calculation	<u>s:</u>	<u>H2O</u>			OIL
Polygon #1		1,877.5	50	47.60			2.50
Polygon #2		3,05	53	92.98			4.89
Polygon #3		21	15	0.09			9.45
Polygon #4		1	1	0.00			0.40
Total Solid/ I	iquid Volu	me:					
	Estimated	l Volumes	Spilled	H20			OIL
				140.67			17.24
	Liquid Rec	covered:		0			2
	Total Spill	Liquid:		155	.91		

Please view Attachment 12 for the references in obtaining the Porosity values.

The soil classification was gathered from Soil Survey Eddy Area, New Mexico March 1971.

Polygon #1 is from the caliche pad with Soil Class GM.

Polygon #2 is located on the caliche pad with 6" of caliche (GM) and 4" of top soil (ML). Porosity % is the average of both.

Polygon #3 is located on the pasture where fluids ran down cattle path. Includes ML and CL soil. Porosity % is average of both.

Polygon #4 is located on the northern end of the spill. This was mostly a misty that was carried by the wind. Soil samples did not show any contamination in this area.

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Attachment #14

Laboratory Analysis



November 27, 2018

ERIC GARCIA REPUBLIC BACKHOE SERVICES 47 E. DICKENS RD LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 11/19/18 15:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 7-5 (H803384-01)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.5 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

		-		•					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	12.3	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	1						
Surrogate: 1-Chlorooctadecane	86.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

KEE 1078. Likely of Senger. Solids hilly of dark makes worky to any data stary, while hash is noted to be, dat is includ to be and ad by dark to anyon. If data, include that the project of any disc many defines that is determined with only School with the (3) day data mapping of the project is the start of the project is data, include the mapping of adday, which include, here is data, in a law is projection with the (3) of the manual of the apping of the start data for the foreign data is address, here is not one is not projection of the projection of the manual with a projection of the antition is includent and the start data is a law of the start data of the apping of the start data data includes.

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 4-5 (H803384-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 95.1 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	11.6	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	1						

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

KEE 1078. Likely of Senger. Solids hilly of dark makes worky to any data stary, while hash is noted to be, dat is includ to be and ad by dark to anyon. If data, include that the project of any disc many defines that is desced work of more in order of more the dark (2) day the manyola of the applications. In a work data School is late to reduct it works down, while, which include, having the order of any time of professional by dark, it is indicated and the dark (2) day the manyola of the applications of the available in the late to manyola darks, while a land over all backs indicates and the dark of the late of the application of the available of the applications of the available in the many of the dark dark indicates and the many of the dark dark indicates and the solution of the dark indications and the order of the available of the application of School dark dark.

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 2-5 (H803384-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromafluorobenzene (PIL 96.4 % 73.3-129

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	11/24/2018	ND	400	100	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	11/21/2018	ND	187	93.5	200	3.29	
DR0 >C10-C28*	12.4	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	81.5	% 41-141	1						

Surrogate: I-Chlorooctadecane 85.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 6-5 (H803384-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.9 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg.	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chiorooctane	86.5	% 41-142	1						

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 3-5 (H803384-05)

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	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.5 % 73.3-129

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	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142							
Surrogate: 1-Chlorooctadecane	84.1	% 37.6-14	7						

Cardinal Laboratories

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 1-5 (H803384-06)

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	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.8 % 73.3-129

Chioride, SM4500CI-B Analyzed By: AC mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS 95 Recovery True Value QC RPD Qualifier Chloride 144 16.0 11/24/2018 ND 432 108 400 0.00 QR-03 TPH 8015M Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10* <10.0 10.0 11/21/2018 ND 187 93.5 200 3.29 200 DRO >C10-C28* <10.0 10.0 11/21/2018 ND 204 102 0.672 EXT DRO >C28-C36 <10.0 10.0 11/21/2018 ND Surrogate: 1-Chlorooctane 84.7 % 41-142 Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 3-2 (H803384-07)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					

Chloride	208	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DR0 >C28-C36	18.8	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142 Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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KHEN 1076. Unlike of Sampa. Solvals hills of dark makes much to any data state, while had a boly of a label to be small pair by dark to anyon. If data, building that he regions of any dise man shalmer dat is data which which a star of pair builder the Boly (2) by the manyolar of the sphule many. It is an state data is had beind in back to be shall be be pairing which builds, building the data of a state in a data is a shall be shall be be also being a data beind be be paired as a shall be a state build which and the Boly (2) by the manyolar of the shall be be paires at the shall be been at the boly of the shall be been a state which which is the back of the sphule angle bit of the shall be been at the back is been been at the back of the shall be back of the shall be back of the shall be back of the back of the shall be back of the shall be back of the shall be back of the back of the shall be back of the shall be back of the ba

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Celey D. Keene, Lab Director/Quality Manager

Page 8 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 3 - SURFACE (H803384-08)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<1.00	1.00	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	2.24	1.00	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	12.9	3.00	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	15.2	6.00	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

		-							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	642	100	11/21/2018	ND	187	93.5	200	3.29	
DR0 >C10-C28*	28600	100	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	5060	100	11/21/2018	ND					
Surrogate: 1-Chlorooctane	190	% 41-142	1						

Surrogate: 1-Chlorooctadecane 954 % 37.6-147

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NEE 1075. Likely of Senger. Solice helds of and a mode works for any size areas, while head is held in held in the sense pair by shed for any solice band is shed in the segment of the sense of the second solic band is held in the second solic band is held in the second solic band is held band in the sequence of the second solic band is held band in the second solic band is held band in the second solic band is held band with the second solic band in the second solic band is held band in the second solic band in the second solic band is held band in the second solic band in the second solic band in the second solic band is held band in the second solic band in the second solic band is held band in the second solic band is held band in the second solic band in the second solic band is held band in the second solic band in the second sol

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 7-2 (H803384-09)

BTEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.0 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC Reporting Limit % Recovery True Value QC Analyte Result Analyzed Method Blank BS RPD Qualifier Chloride 96.0 16.0 11/24/2018 ND 432 108 400 0.00 TPH 8015M mg/kg Analyzed By: MS True Value OC RPD Analyte Result Reporting Limit Analyzed Method Blank BS 96 Recovery Oualifier GRO C6-C10* 11/21/2018 187 93.5 200 <10.0 10.0 ND 3.29 DRO >C10-C28* <10.0 10.0 11/21/2018 ND 204 102 200 0.672 EXT DRO >C28-C36 <10.0 10.0 11/21/2018 ND Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

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*=Accredited Analyte

NEED NOTE tabley of Georgen. Gebruk tabley of shells and are sendy for any size array, while land is budy to be by due to be available for the respect of the probability of Georgen. All shells in the sequence of the sound of the foreign and the foreign a

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Celey D. Keene, Lab Director/Quality Manager

Page 10 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 4-2 (H803384-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.0% 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/24/2018	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	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DR0 >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	85.5	% 41-142	1						

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Page 11 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 2 - SURFACE (H803384-11)

BTEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.500	0.500	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.500	0.500	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	2.64	1.50	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<3.00	3.00	11/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 73.3-129

593 % 37.6-147

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	274	100	11/21/2018	ND	187	93.5	200	3.29	
DR0 >C10-C28*	27600	100	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	5050	100	11/21/2018	ND					
Surrogate: 1-Chlorooctane	147 5	% 41-142							

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Surrogate: 1-Chlorooctadecane

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KHEN NOTE. Unlike our Samples. Section's health and senses meanly be any size arising whether hand is noticed and in the link in the second and by size is any size of an end of the second and by size of an end of the second set of the second and by size of an end of the second set of the second and by size of an end of the second set of the second second

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Page 12 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 10 - SURFACE (H803384-12)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromafluarobenzene (PIL 96.7 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

	-			•					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	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
GRD C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DR0 >C10-C28*	56.3	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	24.9	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	1						

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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SHE NOTE tabley of Senger. Second tabley of each makes much for any data range while hand is help that he begins and performed and the makes and performance of the second and be set and the second and the second second second and the second second

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Celey D. Keene, Lab Director/Quality Manager

Page 13 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 4-2 (H803384-13)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
<0.300	0.300	11/25/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank B5 <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 98.4 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	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	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-141							
Surrogate: 1-Chlorooctadecane	99.5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 14 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TB 1 - SURFACE (H803384-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.500	0.500	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.500	0.500	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	4.51	1.50	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	4.51	3.00	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 109 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	491	100	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	29800	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	5310	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	123	% 41-142							

Surrogate: 1-Chlorooctadecane 885 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 15 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 1 - SURFACE (H803384-15)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.500	0.500	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	1.02	0.500	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	5.71	1.50	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	6.73	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 73.3-12	9						

Surrogate: 4-Bromofluorobenzene (PIL 107 %

Chioride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	309	100	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	20600	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	4060	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	132	% 41-142							

Surrogate: 1-Chlorooctadecane 668 % 37.6-147

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NEE NOTE tabley of Design. Default high of short many to any dow range while hand is help that he bed to be anned put by short be negative. At days, including that he register and any other many obtained while he short while its other and many by Default while the (20) day the manyhelp of the applications. In its next short be hadred to manyhelp there are applied being any short being being being being a short being and the short being appendix and the short being and the short being and the short being and the short being appendix and the short being and the short being and the short being and the short being appendix and the short being appendix and the short being and the short being appendix and the short being appendix

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Page 16 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TB 2 - SURFACE (H803384-16)

mg/	kg	Analyzed By: MS					5-04	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
1.71	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
1.71	0.300	11/25/2018	ND					
	Result <0.050 <0.050 <0.050 1.71	<0.050 0.050 <0.050 0.050 <0.050 0.050 1.71 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 153 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	398	100	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	36300	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	7080	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	126	% 41-142	1						
Surrogate: 1-Chlorooctadecane	1120	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

KEE 1075. Likely of Senger. Solvets hilly of dark makes easily to any data state, while land is noted to be, shell is local just by shell be any state any point or general set of the senjarity of a sense of the senjarity of any state sense of the senjarity of the sense of the senjarity of the sense of the senjarity of the sense of the sense of the sense is a sense of the sense because the sense of the sense is a sense of the sense because the sense is a sense of the sense because of the sense because of the sense because the sense is a sense of the sense because the sense is a sense of the sense because because because and the sense is a sense of the sense because of the sense because is a sense of the sense because because because the sense of the sense because because because the sense because because

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Celey D. Keene, Lab Director/Quality Manager

Page 17 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 2 - SURFACE (H803384-17)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS				5-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	1.17	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	1.17	0.300	11/25/2018	ND					

Surrogate: 4-Bromafluorobenzene (PIL 133 % 73.3-129

Chioride SM4500CI-B mo/kn Analyzed By: AC

Chioride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	107	50.0	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	11200	50.0	11/22/2018	ND	209	104	200	4.42	
EXT DR0 >C28-C36	2230	50.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	107 5	% 41-142	1						
Surrogate: 1-Chlorooctadecane	406 :	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 18 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 9 - SURFACE (H803384-18)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.9 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

		-		•					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	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	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	72.9	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	37.6	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	70.6	% 41-142	1						
Surrogate: 1-Chiorooctadecane	81.1	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 19 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 5-2 (H803384-19)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.8	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	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	11/22/2018	ND	193	96.7	200	3.55	

ND

ND

209

104

200

4.42

EXT DRO >C28-C36 <10.0 10.0 11/22/2018
Surrogate: 1-Chlorooctane 89.7 % 41-142

<10.0

10.0

11/22/2018

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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DRO >C10-C28*

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Celey D. Keene, Lab Director/Quality Manager

Page 20 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 2-2 (H803384-20)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 95.2 % 73.3-129

Chioride, 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	11/24/2018	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
GRD C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	79.4	% 41-142	1						
Surrogate: 1-Chlorooctadecane	85.7	% 37.6-14	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 21 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 1-2 (H803384-21)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromafluarobenzene (PIL 96.4 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

95.8 %

37.6-147

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	11/24/2018	ND	432	108	400	0.00	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
<10.0	10.0	11/22/2018	ND					
87.4	% 41-142	1						
	64.0 mg Result <10.0 <10.0 <10.0	64.0 16.0 mg/kg Result Reporting Limit <10.0	64.0 16.0 11/24/2018 mg/kg Analyze Result Reporting Limit Analyzed <10.0	64.0 16.0 11/24/2018 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	64.0 16.0 11/24/2018 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	64.0 16.0 11/24/2018 ND 432 108 mg/kg Analyzed By: MS Method Blank BS % Recovery <10.0	64.0 16.0 11/24/2018 ND 432 108 400 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC <10.0	64.0 16.0 11/24/2018 ND 432 108 400 0.00 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD <10.0

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

Page 22 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 5 - SURFACE (H803384-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	2.42	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	13.6	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	16.0	3.00	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 115 % 73.3-129

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	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	1000	100	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	45600	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	8250	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	144	% 41-141	1						

Surrogate: 1-Chiorooctadecane 1330 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 23 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 3- SURFACE (H803384-23)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.500	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	3.89	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	3.89	3.00	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

		-							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	130	50.0	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	5370	50.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	1180	50.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	104	% 41-141	1						
Surrogate: 1-Chlorooctadecane	272	% 37.6-14	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 24 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN READ & STEVENS	Sample Received By:	Jodi Henson

Sample ID: TA 2-5 (H803384-24)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
<0.300	0.300	11/25/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank B5 <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 97.6% 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Childride, SH4500CIPB	109/	Ng.	Analyze	u by: AL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	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	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	12.8	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DR0 >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	77.9	% 41-142	1						
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 25 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 4 - SURFACE (H803384-25)

BTEX 8021B	mg/	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	1.14	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	2,46	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	13.0	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	16.6	3.00	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 116 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/24/2018	ND	432	108	400	0.00		
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					5-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GR0 C6-C10*	608	100	11/22/2018	ND	193	96.7	200	3.55		
DR0 >C10-C28*	27000	100	11/22/2018	ND	209	104	200	4.42		
EXT DRO >C28-C36	4900	100	11/22/2018	ND						
Surrogate: 1-Chlorooctane	125	% 41-141	1							
Surrogate: 1-Chlorooctadecane	808	% 37.6-14	7							

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Celey D. Keene, Lab Director/Quality Manager

Page 26 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 6 - SURFACE (H803384-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	0.615	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	3.77	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	21.5	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	25.9	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	124 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	1290	100	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	40100	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	6970	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	160 5	% 41-142	1						
Surrogate: 1-Chlorooctadecane	1110	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 27 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 8-2 (H803384-27)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.8 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	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	11/22/2018	ND	193	96.7	200	3.55	
DR0 >C10-C28*	49.8	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	22.3	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	92 .7	% 41-141	1						
Surrogate: 1-Chiorooctadecane	107	% 37.6-14	7						

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Page 28 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 2-2 (H803384-28)

BTEX 8021B mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.9 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	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
GRD C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-141	1						

Surrogate:	1-Chlorooctadecane	102 %	37.6-147
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Celey D. Keene, Lab Director/Quality Manager

Page 29 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 5-5 (H803384-29)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
					6.34	106	6.00		0.516

Surrogate: 4-Bromofluorobenzene (PIL 96.2 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/24/2018	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	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142	1						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 30 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TB 1-2 (H803384-30)

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	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromafluorobenzene (PIL 96.7 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

		-							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/24/2018	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	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142							
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 31 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 3-2 (H803384-31)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
<0.300	0.300	11/25/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank B5 <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 97.0 % 73.3-129

Chioride, SM4500CI-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	11/24/2018	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
GR0 C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	90.3 5	% 41-142	1						
Surrogate: 1-Chlorooctadecane	99.2 5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 32 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 1-5 (H803384-32)

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	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2018	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
GRD C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	87.5	% 41-142	1						
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 33 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 1-2 (H803384-33)

BTEX 8021B	mg,	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

73.3-129 Surrogate: 4-Bromofluorobenzene (PIL 97.3 %

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DR0 >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	83.3	% 41-142	1						
Surrogate: 1-Chlorooctadecane	91.5	% 37.6-14	7						

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KEEE 1076. Likely of Sampa. Solvah hilly of dark anter week to an access when and a both of both of both a both of both and a both a both of both and a both a sample of the angle in a solution week to a solution of the solution of the angle in a solution of the angle in a both a bo

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Celey D. Keene, Lab Director/Quality Manager

Page 34 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 9-5 (H803384-34)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98 .7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRD C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	1						
Surrogate: 1-Chlorooctadecane	97.5	% 37.6-14	7						

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 35 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 6-2 (H803384-35)

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	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.0 % 73.3-129

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	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	1						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 1 - SURFACE (H803384-36)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	0.933	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	5.16	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	6.09	3.00	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 73.3-129

mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	227	100	11/22/2018	ND	188	94.0	200	3.25	
DR0 >C10-C28*	20900	100	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	4130	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	128	% 41-141	1						
Surrogate: 1-Chlorooctadecane	676 :	% 37.6-14	7						

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Chloride, SM4500CI-B

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KEE 1078. Likely of Senger. Solids hilly of dark makes worky to sy day state, and a month of by dal is black in the sender. If day, buildy for the respect of a grant work will be been being of a sense of the solid be black in the the solid be black in

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Celey D. Keene, Lab Director/Quality Manager

Page 37 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 4-5 (H803384-37)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 97.4 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DR0 >C10-C28*	38.4	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	14.9	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	78.4	% 41-142	2						

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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KEEE NOTE. Lability of Sample. Endowle helds of dark makes smally be any daw arise, while land is held a led be be small and be the second and by dark be region. At daws, building these be regioned and of the solution arise is a small and be been been and and and an analysis of the solution arise. In we need that be the best of the solution arise, is a small and a solution are been as a statement of the solution arise is a small and and a solution arise is a small and a solution arise is a small and a solution are been as a solution arise in a small and and a solution arise is a small and a solution are been as a solution are been as a solution arise of the solution arise and the solution arise and the solution are been as a solution are been as a first and the solution arise are also as a solution and are also as a solution are as a solution are

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Celey D. Keene, Lab Director/Quality Manager

Page 38 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN READ & STEVENS	Sample Received By:	Jodi Henson

Sample ID: TA 10-2 (H803384-38)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 94.4 % 73.3-129

mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	92.5 5	% 41-141	1						
Surrogate: 1-Chlorooctadecane	103 9	6 37.6-14	7						

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Chloride, SM4500CI-B

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KEEE NOTE. Labely of Senger. Endowle helds of labely and weaks meanly be any size array, while land is build as be, build to be sended and by shall be been used and by shall be been been as a statement of the sense of the sense of the sense of the sense between the state of a sense of the sense between the state of a sense by shall be been been as a statement of the sense between the state of the sense between the state of a sense by shall be been been as a statement of the sense between the state of the sense between the

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Celey D. Keene, Lab Director/Quality Manager

Page 39 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 3-5 (H803384-39)

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
<0.300	0.300	11/25/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank B5 <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 96.8 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC Result Reporting Limit Analyzed Analyte Method Blank B5 % Recovery True Value QC RPD Qualifier 108 Chloride 32.0 16.0 11/24/2018 ND 432 400 0.00 TPH 8015M Analyzed By: MS mg/kg Result Reporting Limit Analyzed % Recovery True Value QC RPD Analyte Method Blank BS Qualifier GRO C6-C10* <10.0 10.0 11/22/2018 ND 188 94.0 200 3.25 <10.0 202 DRO >C10-C28* 10.0 11/22/2018 ND 101 200 5.04 EXT DRO >C28-C36 <10.0 10.0 11/22/2018 ND Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chiorooctadecane 99.8 % 37.6-147

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MER 1075. Unlift of Senger. Selects high of deck maters would be any data story, while hand is help ded in body by the foreign. All data, building then be register and by the man obtained will be decad would obter while and the Select (20 days the manylate of the applications). In a word del Select is high to be backed a story of the decident is high to be backed and the Select (20 days the manylate of the applications). In a word will be due to be the Select of the Select (20 days the selections) and the selections of the selection of t

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Celey D. Keene, Lab Director/Quality Manager

Page 40 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TB 2-2 (H803384-40)

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	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 95.9% 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142							
Surrogate: 1-Chiorooctadecane	85.3	% 37.6-14	7						

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*=Accredited Analyte

NEE NOTE tabley of Design. Defects halfly of shells notices would be any size range, while hand is help ded in help in the balley of a second pair by shell be ready. At days, building that he register and my other many obtained will be deside using which a step of memory by Defect with the (1) by the manyhele of the applications. In we need that Defect is half by the balley be assumed by the (1) by the manyhele of the applications in the second by the (1) by the manyhele of the applications in the need of the Defect is half by the balley of the balley of the balley of the state of the second by the (1) by the manyhele of the applications of the state of the applications of the state of the second by Defect by Defect is state of the stat

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Celey D. Keene, Lab Director/Quality Manager

Page 41 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TB 2-5 (H803384-41)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 95.9 % 73.3-129

Chioride, SM4500CI-B mg/kg Analyzed By: AC

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	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
GR0 C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	83.4	% 41-141	2						

Surrogate: 1-Chlorooctadecane 92.1% 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 42 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 9-2 (H803384-42)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.2 % 73.3-129

Chioride, 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	11/24/2018	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
GRD C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142	1						
Surrogate: 1-Chiorooctadecane	89.9	% 37.6-14	7						

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NEED NOTE tabley of Designs. Default high of dark makes worky to any data rates, while hand is help that he had be be aread put by dark to expert. If data, include that may part of the match of the application of the match is hard while the table of the match of the application of the match is hard while the table of the match of the application of the match is the table of the match of the application of the match of the match of the match of the application of the match of the ma

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Celey D. Keene, Lab Director/Quality Manager

Page 43 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: PAD 4 - SURFACE (H803384-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.5 % 73.3-129

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DR0 >C10-C28*	62.2	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	11.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	82.5	% 41-141	1						
Surrogate: 1-Chiorooctadecane	94.1	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 44 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 8 - SURFACE (H803384-44)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.4 % 73.3-129

Chloride, SM4500CI-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	11/24/2018	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	11/22/2018	ND	188	94.0	200	3.25	
DR0 >C10-C28*	14.8	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	84.9	% 41-141							
Surrogate: 1-Chlorooctadecane	93.2	% 37.6-14	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 45 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TB 1-5 (H803384-45)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
<0.300	0.300	11/25/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank B5 <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery <0.050	Result Reporting Limit Analyzed Method Blank B5 % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 97.3 %

73.3-129 Chioride, SM4500CI-B mg/kg Analyzed By: AC

chieriec, shi4seecre			Analyse	a oj. Ac					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	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
GRD C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	87.9	% 41-141	1						
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 46 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 10-5 (H803384-46)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.0 % 73.3-129

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	11/24/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	94.3	% 41-141	1						
Surrogate: 1-Chlorooctadecane	104 5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 47 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 7 - SURFACE (H803384-47)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	0.173	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/24/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10*	31.9	10.0	11/22/2018	ND	188	94.0	200	3.25	
DR0 >C10-C28*	3810	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	634	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142							

Surrogate: 1-Chlorooctadecane 195 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 48 of 55



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	11/19/2018	Sampling Date:	11/15/2018
Reported:	11/27/2018	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS		

Sample ID: TA 8-5 (H803384-48)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.4 % 73.3-129

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	11/24/2018	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DR0 >C10-C28*	35.6	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	13.1	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142	1						
Surrogate: 1-Chiorooctadecane	104	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 49 of 55



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
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 SM4S00CI-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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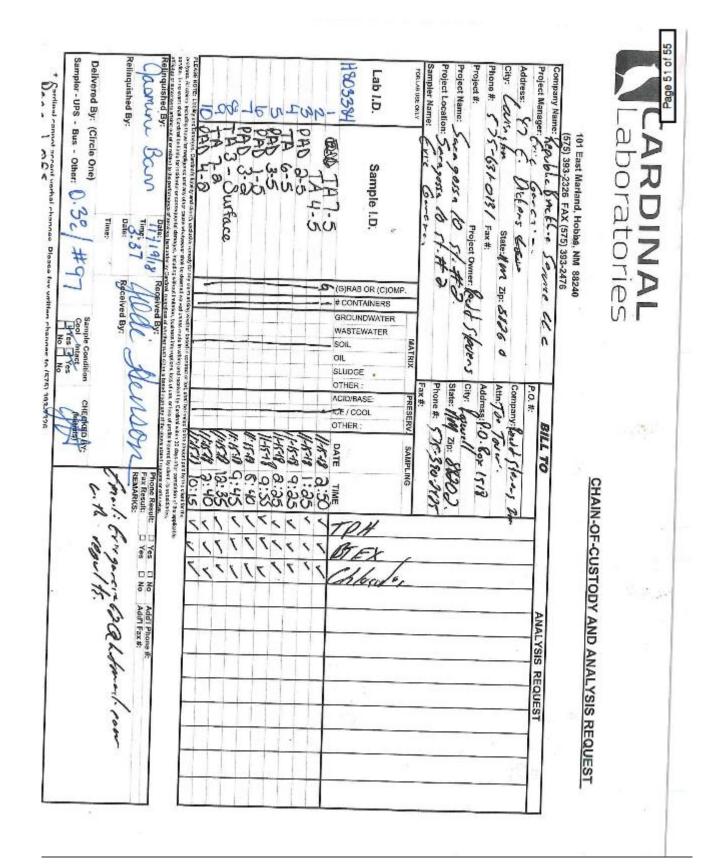
*=Accredited Analyte

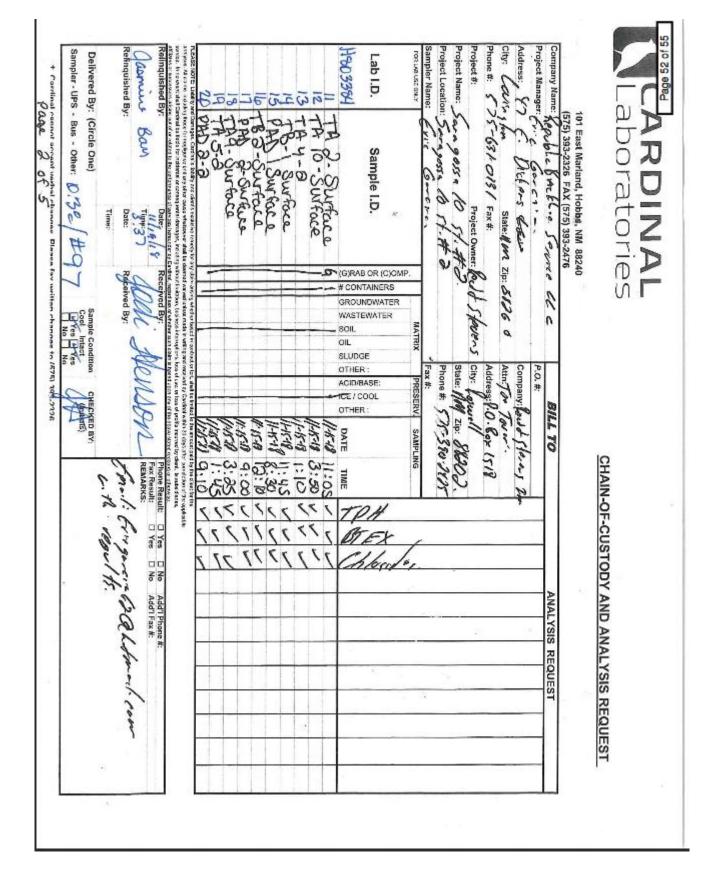
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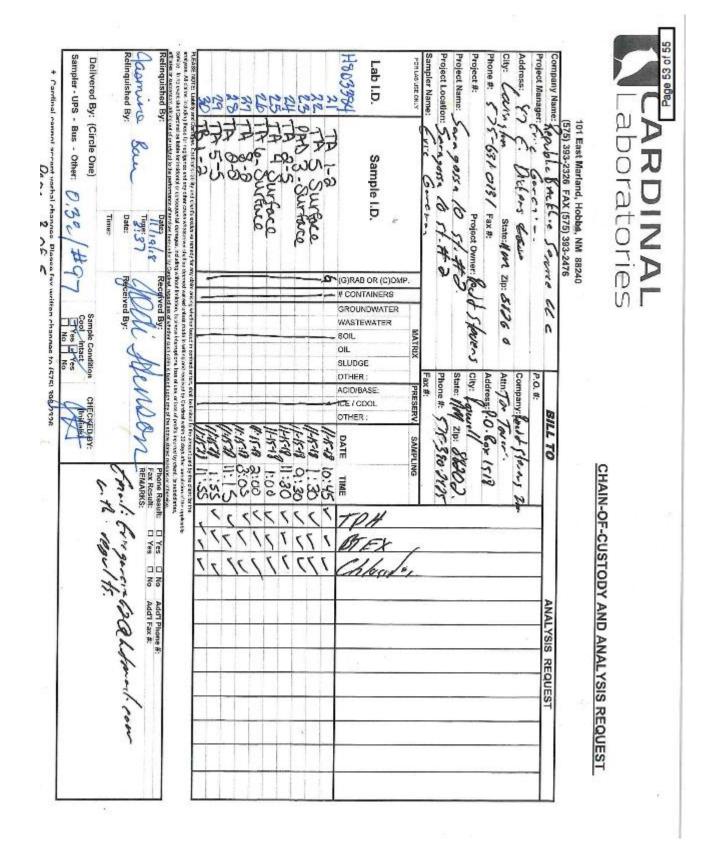
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Celey D. Keene, Lab Director/Quality Manager

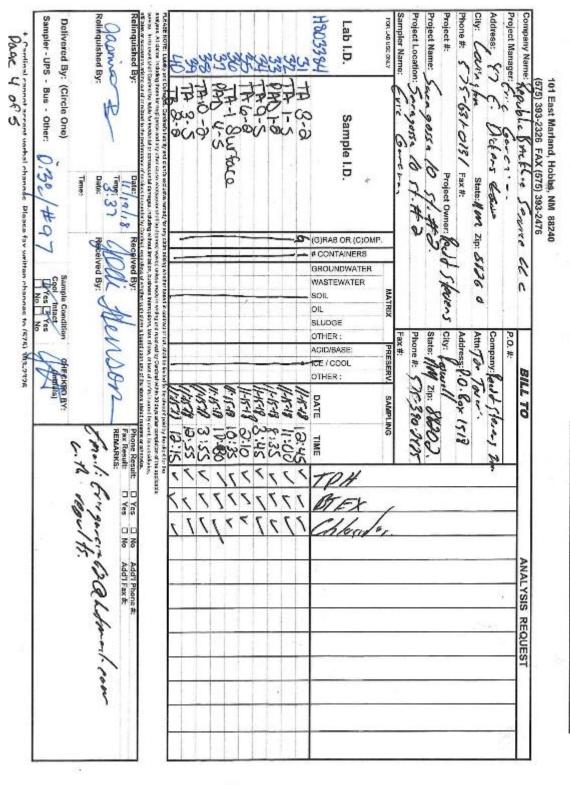
Page 50 of 55

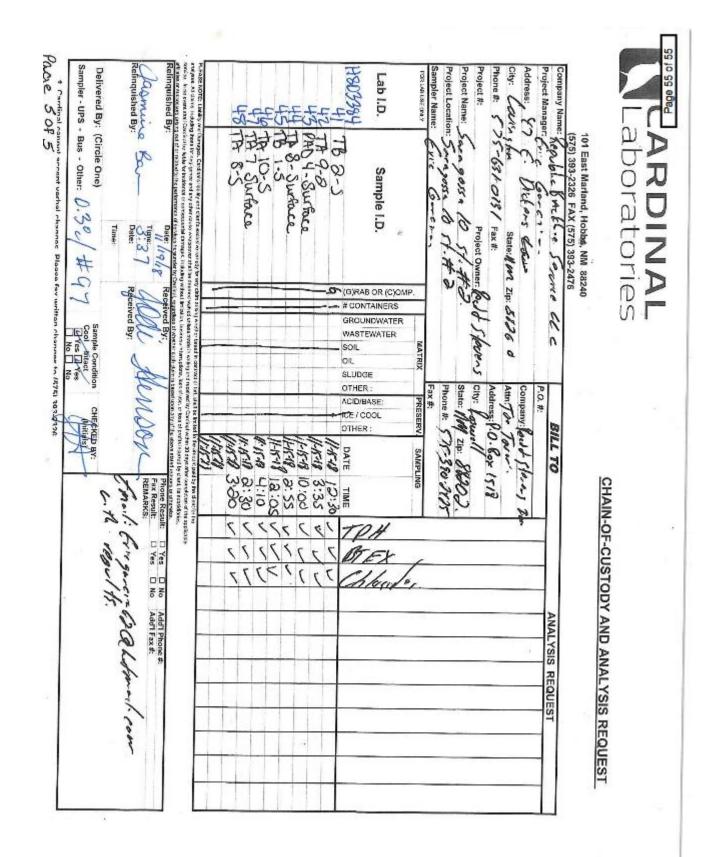






CHAIN-OF-CUSTODY AND ANALYSIS REQUEST







August 13, 2019

ERIC GARCIA REPUBLIC BACKHOE SERVICES 47 E. DICKENS RD LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 08/08/19 12:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 4-1 (H902729-01)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	95.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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

Mite Sugar



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 4-12 (H902729-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 5-1 (H902729-03)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142							
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 5-12 (H902729-04)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 6-1 (H902729-05)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	77.8	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	44.1	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 6-12 (H902729-06)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.9	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 7-1 (H902729-07)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	143	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	80.9	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	97.2	% 41-142							
Surrogate: 1-Chlorooctadecane	98.2	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 7-12 (H902729-08)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	89.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 8-1 (H902729-09)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 8-12 (H902729-10)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142							
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 9-1 (H902729-11)

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	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142							
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 9-12 (H902729-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2019	ND	1.95	97.4	2.00	4.14	
Toluene*	<0.050	0.050	08/10/2019	ND	2.00	99.8	2.00	2.05	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.14	102	6.00	2.21	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	89.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	90.0	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 10-1 (H902729-13)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	90.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.3	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 10-12 (H902729-14)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 11-1 (H902729-15)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	79.2	% 41-142							
Surrogate: 1-Chlorooctadecane	79.9	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 11-12 (H902729-16)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	88.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 12-1 (H902729-17)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/09/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/09/2019	ND					
Surrogate: 1-Chlorooctane	82.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 12-12 (H902729-18)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 13-1 (H902729-19)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	198	98.9	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	189	94.6	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	84.1	% 41-142							
Surrogate: 1-Chlorooctadecane	83.9	% 37.6-14	7						

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Mite Sugar



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 13-12 (H902729-20)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	90.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 14-1 (H902729-21)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142							
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 14-12 (H902729-22)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	,						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 15-1 (H902729-23)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	87.2	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 15-12 (H902729-24)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 16-1 (H902729-25)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.1	% 37.6-14	7						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/06/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 16-12 (H902729-26)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	91.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	94.8	% 37.6-14	7						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 17-1 (H902729-27)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 17-12 (H902729-28)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 18-1 (H902729-29)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	73.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	75.8	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 18-12 (H902729-30)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	49.8	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142							
Surrogate: 1-Chlorooctadecane	87.1	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 1-1 (H902729-31)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2019	ND	400	100	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	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142							
Surrogate: 1-Chlorooctadecane	97.1	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 1-12 (H902729-32)

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	08/10/2019	ND	2.23	111	2.00	4.82	
Toluene*	<0.050	0.050	08/10/2019	ND	2.27	114	2.00	4.17	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.19	110	2.00	6.42	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.58	110	6.00	6.16	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/13/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	81.4	% 41-142							
Surrogate: 1-Chlorooctadecane	84.3	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 2-1 (H902729-33)

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	08/10/2019	ND	1.94	97.1	2.00	4.39	
Toluene*	<0.050	0.050	08/10/2019	ND	2.01	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	5.17	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.12	102	6.00	5.54	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/13/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	76.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	75.4	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 2-12 (H902729-34)

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	08/10/2019	ND	1.94	97.1	2.00	4.39	
Toluene*	<0.050	0.050	08/10/2019	ND	2.01	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	5.17	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.12	102	6.00	5.54	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/13/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	81.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	84.1	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 3-1 (H902729-35)

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	08/10/2019	ND	1.94	97.1	2.00	4.39	
Toluene*	<0.050	0.050	08/10/2019	ND	2.01	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	5.17	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.12	102	6.00	5.54	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.1	% 37.6-14	7						

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Received:	08/08/2019	Sampling Date:	08/07/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS		

Sample ID: S 3-12 (H902729-36)

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	08/10/2019	ND	1.94	97.1	2.00	4.39	
Toluene*	<0.050	0.050	08/10/2019	ND	2.01	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	08/10/2019	ND	2.00	100	2.00	5.17	
Total Xylenes*	<0.150	0.150	08/10/2019	ND	6.12	102	6.00	5.54	
Total BTEX	<0.300	0.300	08/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/13/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2019	ND	212	106	200	2.38	
DRO >C10-C28*	<10.0	10.0	08/10/2019	ND	193	96.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	08/10/2019	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142							
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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Notes and Definitions

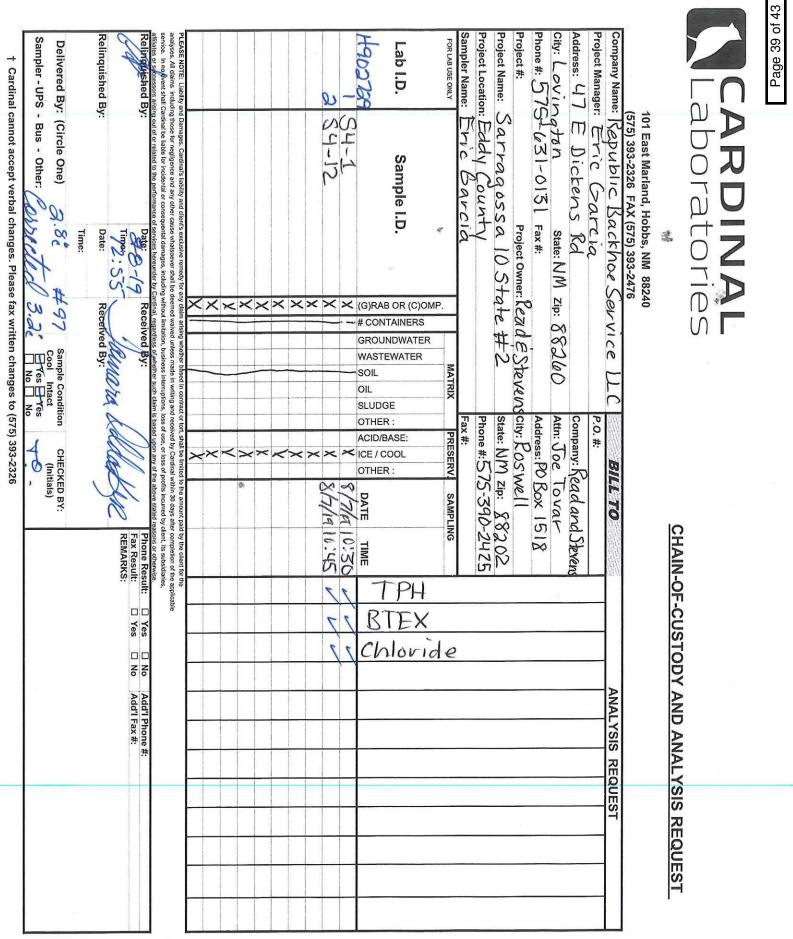
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient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

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Page 130 of 178

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ADORADINAL ADORATORIES or East Marland, Hobbs, NM 88240 or East Marland, Hobbs, NM 88240 or East Marland, Hobbs, NM 88240 respublic Backhoe Service ULC Eric Garcia E Dickens Rd E Dickens Rd Company: Read a state: NM zip: 88240 Attn: Joe Tova		It of the office of the policy	Project Owner: Rezid & Stevens ournty arcia arci	re: Sar me: Fradd me: Fradd Fradd Sar Sar Sar Sar Sar Sar Sar Sar Sar Sar
Aboratories toriatories ori East Marland, Hobbs, NM 88240 575) 393-2326 FAX (575) 393-2476 Republic Backhoe Service ULC BILL TO			S Rd S Rd State: NM Zip: 88260	47 E Dick 47 E Dick
IAL CHAIN-OF-	QUEST		WVICE LLC BILL	101 East Marlai (575) 393-2326 Company Name: ドピアルレビロ
	YSIS REQUEST		INC	Labor

Page 131 of 178

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Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By: Relinquished By:	PLEASE NOTE: Liability and Damages, Cardina's analyses. All claims including those for negligence service. In no event shall Cardinal be liable for insist affiliates of successors arising out of or related to the	22	20	61	21	ie	21	14	1792729	Lab I.D.		FOR LAB USE ONLY	Project Location:	Project Name:	Project #:	Phone #: 579	city: Lovina	Address: 47	Project Manager:					07 J- 77
2.8	n Date: S-19 Time: J.Z.: S.S.	liabilit and a dental	514-12	SI3-12	- 1 - E(S	N 2 - 12	21-12	SII - 1	21-012	S10-1	Sample I.D.	*	L.10 091019	Eddy County	agoss	Project Own	631-0131	tan tan		Kepubli	01 East Marland, 575) 393-2326 F/	建	aborator	ARDINA	
HG7 Sample Condition Cool Intact Tres Tres	Received By:	any claim arising whether based in contrac deemed waived unless made in writing an g without limitation, business interruptions, g without limitation of the stream of the		××	×	××		×	X	GR WA SOI OIL SLL	IDGE IER :	RS	MATRIX Hax		State#2 Sta	Project Owner: Rezid & Stevenscit		Zip: X82/00	0	Service LC	18240 476		I D S	PL	
CHECKED BY: (Initials)	Is hesed upon any of the above stated reasons or otherwise. Frank Result: Fax Result: REMARKS:	or tort, shall be limited to the amount paid by the clie received by Cardinal within 30 days after completion oss of use, or loss of profits incurred by client, its sub	C/0:11 10/0/8 X		X 6/6/93:15	5h: 2 10/0/8 X	10/101	2/1/19 2:	8/1/9		D/BASE: / COOL IER :		PRESERV. SAMPLING	N	state: NM zip: 88202	city: Roswell	V	Attn: Top Tovar	Commany: Road and Ship	o #:		<u>CHA</u>			
	Phone Result: Yes No Fax Result: Yes No REMARKS:	client for the stion of the applicable subsidiaries,			S N	50) Õ	5	-	< [TPH BTE Hlou	Х	e	25				vens	<u>}</u>			CHAIN-OF-CUSTOD			
	Add'I Phone #: Add'I Fax #:	-																	2	ANALYSIS REQUEST		F-CUSTODY AND ANALYSIS REQUEST			
		-																		IEST		SIS REQUEST			

Page 132 of 178

Page 133 of 178 CARDINAL Bage 45 of 43 Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

					Cool Intact Gres Tres	2.8° #97 Corrected 3.0	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Delivered By Sampler - UPS
				(Time:		
				Carlos al	Received By:	Date: Rec	Y:	Relinquished By:
	No Add'l Phone #: No Add'l Fax #:	□ Yes □	Phone Result: Fax Result: REMARKS:	Hadden F	Received By:	51-19	у:	Relinquished By:
	2]	fter completion of the applica y client, its subsidiaries, reasons or otherwise.	by Cardinal within 30 days after co e, or loss of profits incurred by clien upon any of the above stated reason	use whatsoever shall be deemed walved unless made in writing and received ental damages, including without limitation, business interruptions, loss of us services hereunder by Cardinal, regardless of whether such claim is based 1	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardhal be label for incidental or consequental damages, including without imitation, business interruptions, less of use, or loss of profix incurred by client, its subsidiaries, afflates or successors anking 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.	analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or conse affiliates or successors arising out of or related to the performance	analyses. All claims includi service. In no event shall C affiliates or successors aris
-			the client for the	hall be limited to the amount paid by	arising whether based in contract or tort, sl	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	nd Damages, Cardinal's liability a	PLEASE NOTE: Liability a
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		B Cl	TIME		GROU			HONTING
		TE	Pt	COOL	NDWATE EWATER GE R :	B OR (C)C	Sample I.D.	Lab I.D.
		X)	PRESERV. SAMPLING	R			FOR LAB USE ONLY
		2			Fax #:	Sarcia	Eric Gai	Sampler Name:
			4ZP	Phone #:575-390-2425			"Eddy Cou	Project Location: Eddy
			2	State: N/M Zip: 88202		ssa 10 State	Sarragossa	Project Name:
				city: Roswell	Id EStevenscity:	Project Owner: Kezid EStevens		Project #:
			8	Address: PO Box 1518			575-631-0131	Phone #: 570
				Attn: Joe Tovar	Zip: 88260 Attn:	State: N/M	ovination	city: Lovir
			tevens	company: Read and Steven	Comp	kens Rd		Address: 47
					P.O. #:	arcia	LUNI O	Project Manager:
REQUEST	ANALYSIS R			BILL TO	nce LC	Backhoe Service	Company Name: Kepublic	Company Name:
			100 million (100 m			(5/5) 393-2326 FAX (5/5) 393-24/6	(5/5) 393-2326 F/	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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Page 134 of 178

Page 43 of 43

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

		(575) 393-2326	† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326
		ion CHECKED BY:	Sampler - UPS - Bus - Other: Conductor 3.32 #97 Cool Intact
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		Willaffil Meningers.	Relinquished By: Date: Received By:
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		 loss of use, or loss of profits incurred by client, its subsidiaries, n is based upon any of the above stated reasons or otherwise. 	out of or related to the performance of services hereunder by Car
	plicable	ct or lort, shall be limited to the amount paid by the client for the nd received by Cardinal within 30 days after completion of the ag	analyses. All claims including those for negligence, custinats including accuston was excluded of an your and any other cause what severing of any stating whother based in contract or lort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In one way shall be built or chief the applicable service.
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		1	FOR LARLISE CALV
		Phone #:575-390-2425	n: Lady
		State: NM Zip: 88202	agoss
2		scity: Roswell	Project #: Project Owner: Kezide Stevenscity: Ros well
		Address: PO Box 1518	Phone #: 5754631-0131 Fax #:
		Attn: Joe Tovar	ata
		Company: Read and Steven	Address: 47 E Dickens Rd
	- 1	P.O. #:	Eric O
REQUEST	ANALYSIS REO	BILL TO	Company Name: Kepublic Backhoe Service LLC
			(575) 393-2326 FAX (575) 393-2476



August 20, 2019

ERIC GARCIA REPUBLIC BACKHOE SERVICES 47 E. DICKENS RD LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 08/16/19 10:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/16/2019	Sampling Date:	08/13/2019
Reported:	08/20/2019	Sampling Type:	Sludge
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS-EDDY CO.		

Sample ID: S 6 - 2 (H902817-01)

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	08/16/2019	ND	1.72	86.0	2.00	8.65	
Toluene*	<0.050	0.050	08/16/2019	ND	1.84	92.0	2.00	10.8	
Ethylbenzene*	<0.050	0.050	08/16/2019	ND	1.91	95.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	08/16/2019	ND	5.92	98.7	6.00	10.8	
Total BTEX	<0.300	0.300	08/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2019	ND	416	104	400	3.77	
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	08/16/2019	ND	207	104	200	2.89	
DRO >C10-C28*	<10.0	10.0	08/16/2019	ND	198	98.9	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	08/16/2019	ND					
Surrogate: 1-Chlorooctane	92.0	% 41-142							
Surrogate: 1-Chlorooctadecane	95.9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received:	08/16/2019	Sampling Date:	08/13/2019
Reported:	08/20/2019	Sampling Type:	Sludge
Project Name:	SARAGOSSA 10 ST. #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	READ & STEVENS-EDDY CO.		

Sample ID: S 7 - 2 (H902817-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2019	ND	1.72	86.0	2.00	8.65	
Toluene*	<0.050	0.050	08/16/2019	ND	1.84	92.0	2.00	10.8	
Ethylbenzene*	<0.050	0.050	08/16/2019	ND	1.91	95.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	08/16/2019	ND	5.92	98.7	6.00	10.8	
Total BTEX	<0.300	0.300	08/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/19/2019	ND	416	104	400	3.77	
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	08/16/2019	ND	207	104	200	2.89	
DRO >C10-C28*	<10.0	10.0	08/16/2019	ND	198	98.9	200	6.97	
EXT DRO >C28-C36	<10.0	10.0	08/16/2019	ND					
Surrogate: 1-Chlorooctane	94.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Sale Solfs

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Address: 47 E Dickens Rd. Project Name: Saragossa 10 State #2 Project Location: Eddy County Phone #:575- 631-0131 Fax #: city: Lovington company Name: Kepublic Backhoe Service LLC PLEASE NOTE: Liability and Damages. Cardina's fability 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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable Sampler Name: Project #: Relinquished By: service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business intern Sampler - UPS - Bus - Other: H962817 Relinquished By Delivered By: (Circle One) FOR LAB USE ONLY EASE NOTE: Li Lab I.D † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 no Eric 1-2 Sample I.D (>arcia County -7.40 orricella Time 40 Date: 16-19 Project Owner: Rezd & Stevens City: ROSWel Date: Time: State: NM Zip: 88260 Har \times × (G)RAB OR (C)OMP. **Received By:** Received By: # CONTAINERS GROUNDWATER Sample Condition Cool Intact Tes No No No Aluara WASTEWATER MATRIX OIL uptions, loss of use, or loss of profits incurred by client, its subsidiaries, SLUDGE Phone #:575-390-2425 State: N/N Zip: 88202 Attn: Joe Tovar P.O. #: Fax #: company: Read and Steven OTHER Address: PO Box 1518 PRESERV ACID/BASE: CHECKED BY: (Initials) BILL TO OTHER 8/13/19 10:45 /13/19 10:15 DATE SAMPLING Phone Result: Fax Result: REMARKS: TIME Email - Cric Garcie TPH ΕX □ Yes[,] BT chloride No No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

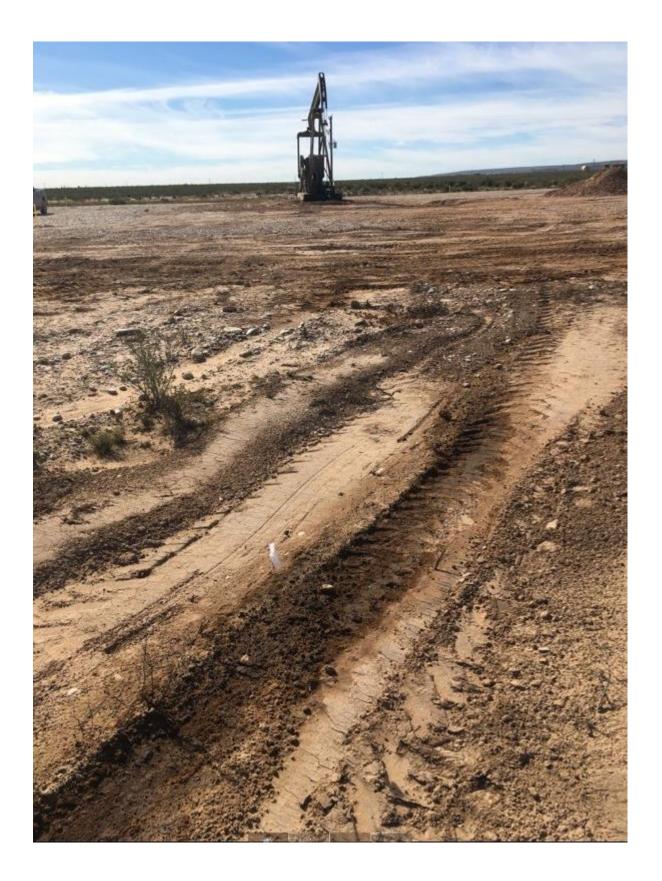
Page 139 of 178

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Attachment #15

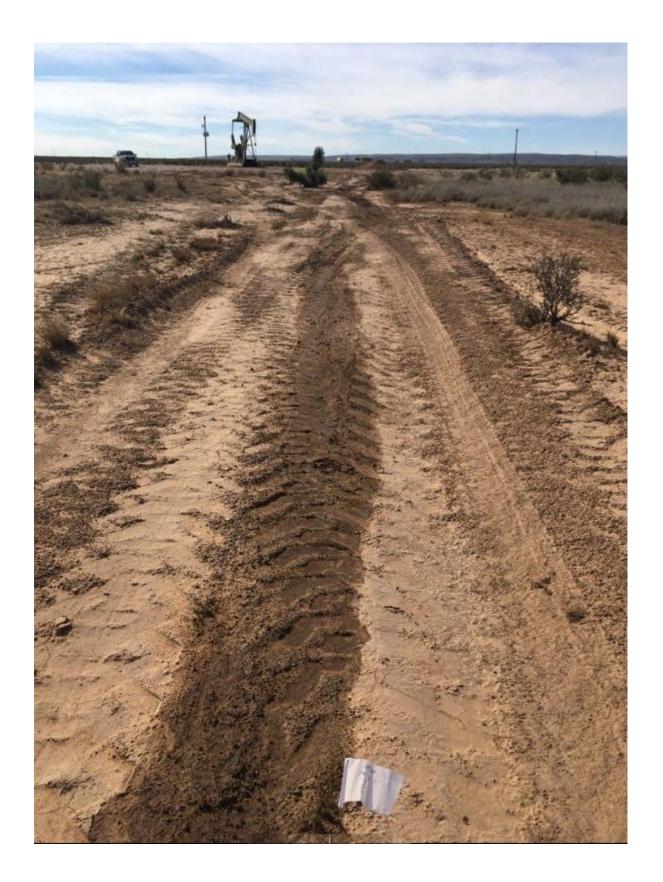
Photos



Sample Location TA1-Looking South towards the source of release.



Sample Location TA2-Looking South towards the source of release.



Sample Location TA3-Looking South towards the source of release.



Sample Location TA4-Looking South towards the source of release.



Sample Location TA5-Looking South towards the source of release.



Sample Location TA6-Looking South towards the source of release.



Sample Location TA7-Looking South towards the source of release.

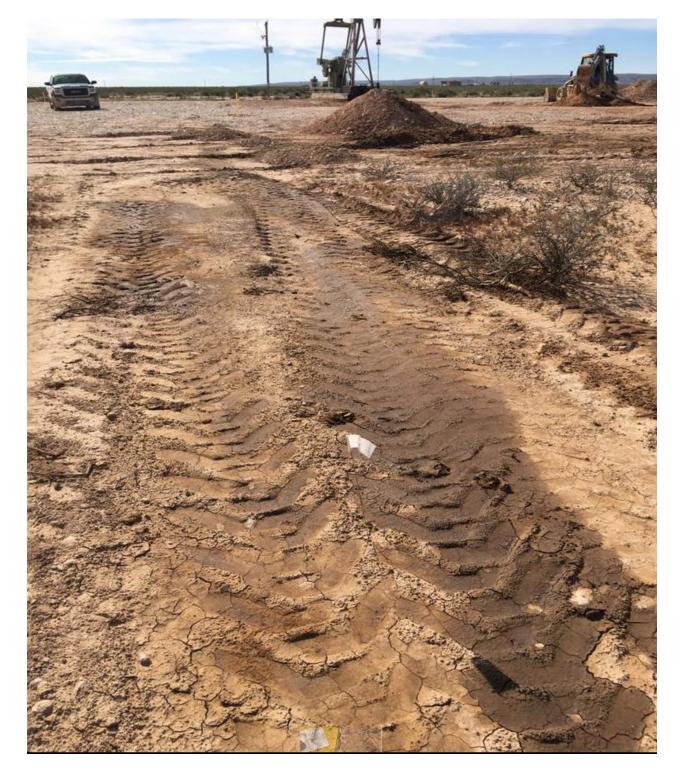
Received by OCD: 3/16/2020 10:46:07 AM



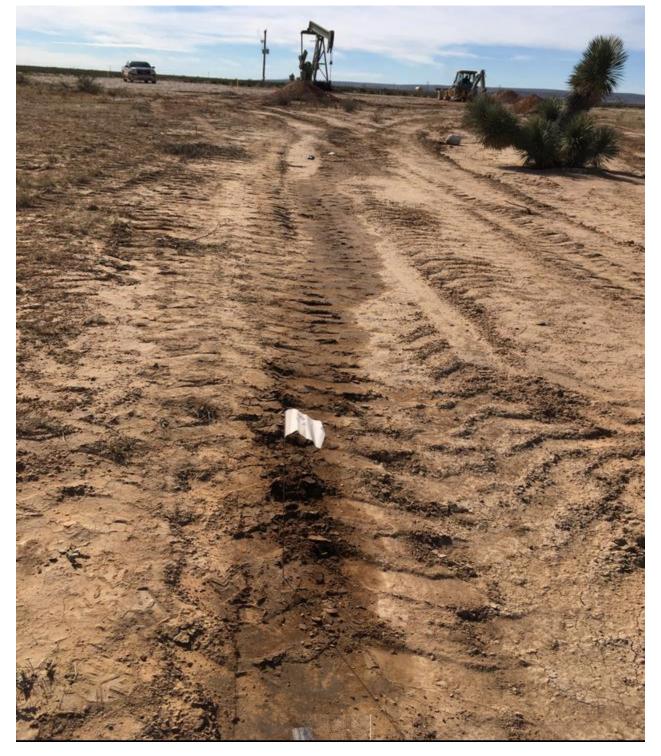
Sample Location TA8-Looking South towards the source of release.



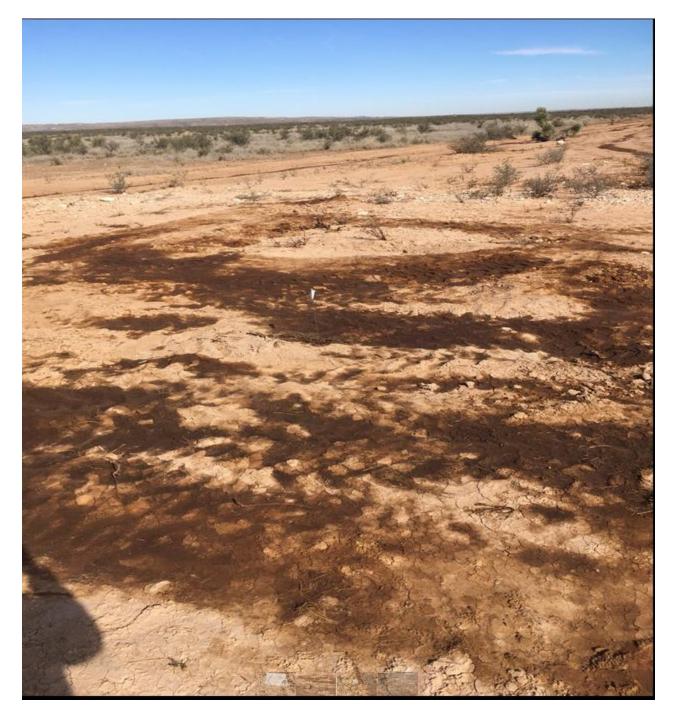
Sample Location TA9-Looking South towards the source of release.



Sample Location TB1-Looking South towards the source of release.



Sample Location TB2-Looking South towards the source of release.

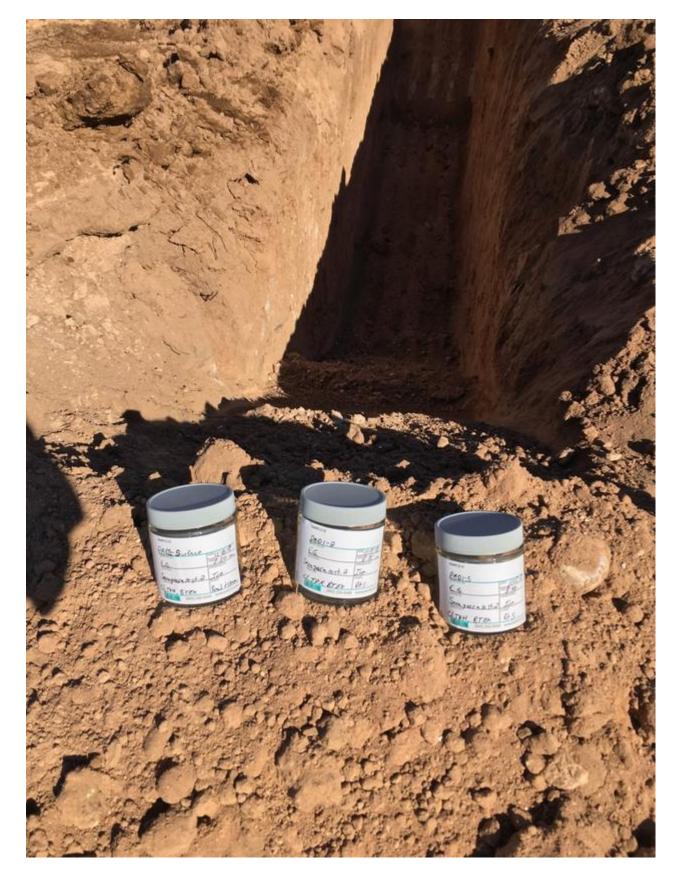


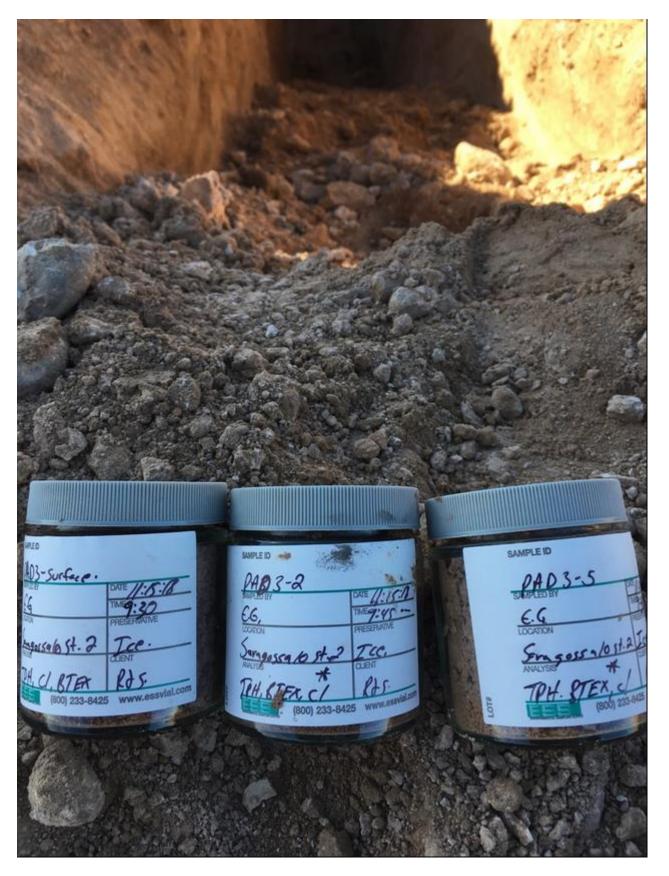




Received by OCD: 3/16/2020 10:46:07 AM

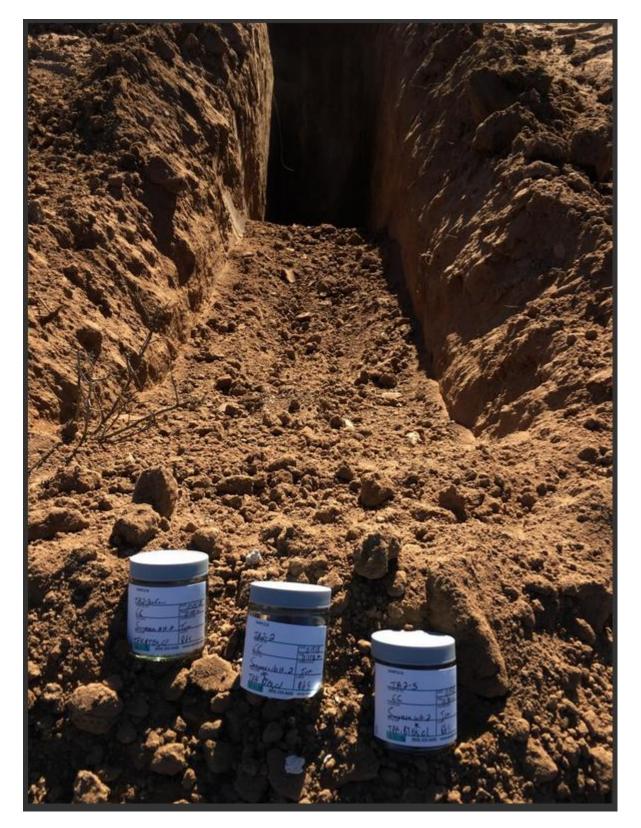










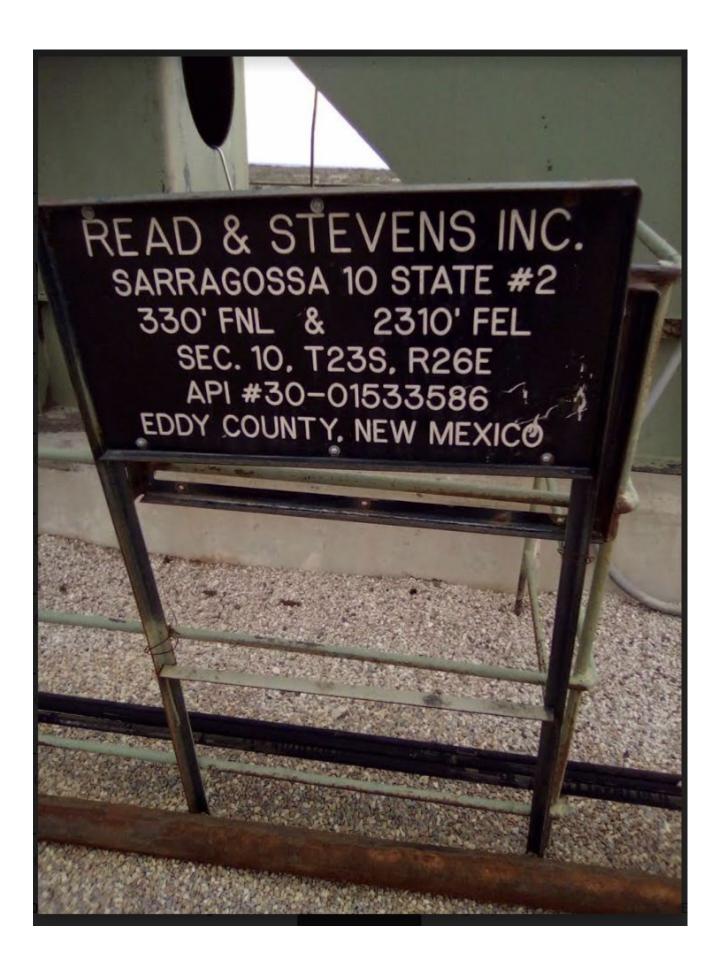












1897 CR 1018 Muleshoe, TX 79347 Bamert Seed Company Inc. Warm Season SSR seed mix 25# bag Description Bluestern, Liftle "Cimarron" (Schizachyrium (800) 262-9892 Bluestem, Yellow "WW Spar" (Andropogon Permit # TX00905 Pure Seed Buffalograss, "Texoka" Not Primed (Bouteloua Lot/Sales # SO-68740 Germ Dormant Hard Seed Origin 4.28% Dropseed, Sand (Sporobolus cryptandrus) 96.00% Fescue, Tall "KY 31" (Festuca anundinacea 6.85% \$8.00% 0.00% Grama, Blue (Bouteloua gracilis) 5.24% 7X 1.00% 0.00% Gramid, Sideoats "El Reno" (Bouteloua 3.00% 5.30% 94.00% OK 27.00% 0.00% 1.69% 75.00% TX 98.00% 0.00% 25.94% 0.00% TX 96.00% 0.00% 24.87% 2.00% OR 90.00% 0.00% 2.00% TX 0.00% TX













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Attachment #16

Excavation Logs

Site Name: <u>Saragossa</u> Date: <u>08/06/2019</u> 10 State #2

Soil Profile

Description	ft. bgs
Top Soil	1
	2
Top Soil /Caliche Mix	3
Caliche	4
	5
	6
	7
	8
	9
	10
·	11
	12
	13
	14
32.327464	9

Add C

8/1 fo 7/1 980d

-104.278845

Received by OCD: 3/16/2020 10:46:07 AM

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Attachment #17 C-141

District
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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Read and Stevens, Inc.	OGRID 18917
Contact Name Joe Tovar	Contact Telephone (575) 390-2425
Contact email Jtovar@read-stevens.com	Incident # (assigned by OCD)
Contact mailing address P.O Box 1518 Roswell, NM 88202	·

Location of Release Source

Latitude _	32.325566 (NAD 83 in decimal de	Longitude104.279915 grees to 5 decimal places)
Site Name	Saragossa 10 State #2	Site Type Oil Well
Date Relea	ise Discovered 10/27/2018	API# (if applicable) 30-015-33586

Unit Letter	Section	Township	Range	County
В	10	23 South	26 East	Eddy

Surface Owner: 🕱 State 🗌 Federal 🗌 Tribal 🗌 Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

X Crude Oil	Volume Released (bbls) 17.24	Volume Recovered (bbls) 2
X Produced Water	Volume Released (bbls) 140.67	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	X Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The cause of the release was a broken 1" connection at the well head. The connection has been replaced. Vacuum truck recovered 2 barrels of oil from the release. A backhoe was called out to pile the saturated material that was on the location and in the pasture.

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	State of New Mexico	
te 2	Oil Conservation Division	District RP
		Facility ID
		Application ID
		Application in
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible pa Spill calculation determined the spill volu	
If YES, was immediate No	notice given to the OCD? By whom? To whom? WI	en and by what means (phone, email, etc)?
	Initial Respons	
The responsib	ile parts must undersake the following actions immediately unless th	y could create a safety hazard that would result in injury
M Released materials	have been contained via the use of berms or dikes, abs	orbent pads, or other containment devices.
X All free liquids and	have been contained via the use of berms or dikes, abs i recoverable materials have been removed and manage bed above have <u>not</u> been undertaken, explain why:	
All free liquids and If all the actions describ If all the actions describ Per 19 15 29.8 B. (4) N has begun, please attact within a lined contained I hereby certify that the in regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance	i recoverable materials have been removed and manage	n immediately after discovery of a release. If remed ve been successfully completed or if the release occ ch all information needed for closure evaluation. knowledge and understand that pursuant to OCD rules and not relieve the operator of liability should their operations l idwater, surface water, human health or the environment.
All free liquids and If all the actions describ If all the actions describ Per 19.15.29.8 B. (4) N has begun, please attact within a lined containm I hereby certify that the in regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and or regulations.	MAC the responsible party may commence remediation that an arrative of actions to date. If remedial efforts have next area (see 19.15.29.11(A)(5)(a) NMAC), please attri- iformation given above is true and complete to the best of my are required to report and/or file certain release notifications a bounent. The acceptance of a C-141 report by the OCD does tiggte and remediate contamination that pose a threat to group to of a C-141 report does not relieve the operator of responsible D = Tourne. Title:	n immediately after discovery of a release. If remed we been successfully completed or if the release occ ch all information needed for closure evaluation. knowledge and understand that pursuant to OCD rules and no perform corrective actions for releases which may enda tot relieve the operator of liability should their operations h divater, surface water, human health or the environment. I inty for compliance with any other federal, state, or local la manuage Production Provide American Manuage Pro
X All free liquids and If all the actions describ Per 19 15 29.8 B. (4) N has begun, please attac within a lined containm I hereby certify that the in regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: (MAC the responsible party may commence remediation that a narrative of actions to date. If remedial efforts have next area (see 19.15.29.11(A)(5)(a) NMAC), please attri- iformation given above is true and complete to the best of my are required to report and or file certain release notifications a bomment. The acceptance of a C-141 report by the OCD does tiggte and remediate contamination that pose a threat to group to of a C-141 report does not relieve the operator of responsible $\frac{MC}{C} Tourn D$ Title; Date:	n immediately after discovery of a release. If remed we been successfully completed or if the release occ ch all information needed for closure evaluation. knowledge and understand that pursuant to OCD rules and no perform corrective actions for releases which may enda tot relieve the operator of liability should their operations h divater, surface water, human health or the environment. I inty for compliance with any other federal, state, or local la manuage Production Provide American Manuage Pro

Page 4	State of New Mexico	Incident ID	
	Oil Conservation Division	Facility ID	
		An indiana provide and a first state of the	
		konstanting and a second secon	
	Site Assessment/C	haracterization	
and the second sec	and the second		246
Did this release in	lepth to groundwater beneath the area affected by the re	Sease?	and an other far offer
	groundwater or surface water?		Yes No
	f the release within 300 feet of a continuously flowing t		Yes No
	f the release within 200 feet of any lakebed, sinkbole, o		
Are the lateral extents of hurch?	f the release within 300 feet of an occupied permanent r	esidence, school, hospital, institution, o	Yes No
tre the lateral extents of	the release within 300 horizontal feet of a spring or a p olds for domestic or stock watering purposes?		TYes No
	the release within 1000 feet of any other fresh water w		Yes 🖾 No
re the lateral extents of ater well field?	the release within incorporated municipal boundaries o	et or spring?	Yes 🗔 No
	the release within 300 feet of a wetland?	and an and the second	TYes No
	the release overlying a subsurface mine?		T Yes No
			Yes No
to the law	the release overlying an unstable area such as karst geo	logy?	TYPE No
	the release within a 100-year floodplain? as not on an exploration, development, production, or		Yes D No
Aracterization Report	own (electronic submittals in pdf format are prefer inth the release have been determined. Refer to 19.15.2 Checklist: Each of the following items must be incla owing impacted area surface failures	ded in the report	
XI Scaled atte map abo Field data Data table of soil co Depth to water dete Depth to water dete Boring or excavato	owing impacted area, surface features, subjuirface featu ontaminant concentration data	es, defineation points, and monitoring	wells.
Depth to water dete	FTD IF BELOW		
Boring or excavatio	ater sources and significant watercourses within h-null	e of the lateral extents of the release	
Topographic Aerial	ing date and GIS information		
	luding chain of custody		
site characterization	port does not include completed efforts at remediation of	C-1	
That plan must make	port does not include completed efforts at remediation o e the estimated volume of material to be remediated, th relines for beginning and completing the remediated	f the release, the report must include a p e proposed remediation technique, pro-	roposed remediation
* site characterization rep That plan must include methods, asticipated tim 5.29 12 NMAC, however	w, use of the table is modified by the remediation.	The closure criteria for a release are con	posed sampling plan
e site characterization reg That plan must include methods, anticipated tim 5.29 12 NMAC, howeve reby certify that the infor-	r, use of the table 0 modified by site- and release-spec mation given above is true and complete to the best of	the closure criteria for a release are con- fic parameters. Application ID	posed sampling plan stained in Table 1 of
e site characterization rep That plan must include methods, anticipated tam 5.29 12 NMAC, howeve reby certify that the infor ilations all operators are is loc health of the environm of the adversaria	r. use of the table of modified by site- and release spectrimation given above is true and complete to the best of a required to report and or file certain release notification ment. The acceptance of a C-141 report by the OCD does	The closure criteria for a release are con- fic parameters. Application ID my knowledge and understand that pursue and perform corrective actions for rele- a not relieve the	ant to OCD rules and ases which may endange
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*Correction to Site Assessment/ Characterization: Saragossa 10 State #2 is not within a 100-year flood plain. Please see Attachment #9.

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

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.	
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be c	onfirmed as part of any request for deformed of remediation	
	production equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human hea	lth, the environment, or groundwater.	
rules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accept		
Signature: La Tan	Date: 02/27/2020	
email: jovar@read-stevens.com	Telephone: (575) 390-2425	
OCD Only		
Received by:	Date:	
Approved Approved with Attached Conditions of	of Approval Denied Deferral Approved	
Signature:	<u>Date:</u>	

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

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: Joe Tovar	Title: Manager, Production and Operations
Signature: 1 de Torre	Date:02/27/2020
email: jovar@read-stevens.com	Telephone: (575) 390-2425
OCD Only	· · · · · · · · · · · · · · · · · · ·
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by:	Date:
Printed Name:	Title: