Republic Backhoe Service, LLC 47 E. Dickens Lovington, NM 88260

(575) 631-0131

March 16, 2020

District II

811 S. First St.

Artesia, NM 88210

Subject: Soil Remediation/ Closure Report for the Saragossa 10 State #3, 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 #3. The site is located in Unit A, Section 10, Township 23 South, and Range 26 East, NMPM, Eddy County, New Mexico, on NM State land. Attachment #1 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 100-year floodplain (FEMA FIRMette Map Attachment #8). The vegetation consists of black grama, blue grama, tobosa, side-oats, 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.

Table 1. below, summarizes information regarding the release.

Nature and Volume of Release

X Crude Oil	Volume Released (bbls) 15.09	Volume Recovered (bbls) 0
X Produced Water	Volume Released (bbls) 49.62	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/1?	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)

The release was attributed to a blown packing at the well head. The well was repacked and put back on in operation.

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: Table 2 below.

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant 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?	☐ Yes ☑ No

GroundWater Depth

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 (Attachment #4). The search determined that the average depth to groundwater at the site to be 222 feet (bgs).

Wellhead Protection Area

A search of a groundwater database maintained by NMOSE identified registered wells within 2000 meters of the release at the site (Attachment #5). The search determined that the nearest registered water well is 1,107' (See Attachment 5). Also, the horizontal measurement of the lateral extent of the spill (Sample Point Pad3-6) to the nearest permanent residence is 992 feet (See Attachment 6).

Closure Criteria

The following table explains the NMOCD permissible levels for the site: Table 3 below.

		ole I								
Closure Criteria for Soils Impacted by a Release										
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**							
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg							
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg							
	GRO+DRO	EPA SW-846 Method 8015M	1,000 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 16, 2018, RBS went to the location to delineate the site. According to the Spill Calculations (See Attachment 10) 100% of the release stayed on the well pad (Attachment 11 Spill Calculation Map). The release poses no threat to ground water as laboratory results concluded that no TPH/Chloride concentrations were found at 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 8 trenches at the site (See Attachment #2). Samples were collected at 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: Table 4 below.

On August 24, 2019, a backhoe was used to dig an additional 8 trenches to further delineate the site (See Attachment #2). Samples were collected at 1' (bgs), 2' (bgs), 5' (bgs), and 12' (bgs). Table 5 below summarizes the labortory analytical results from the soil samples collected on this date.

Labotoray Analysis (Table 4)

Name	Date	Depth	Chlorides	Benezene	BTEX	TPH(DRO,GRO.EXT DRO)	Lithology	Soil	Pad/Pasture	Within 1000' FW Well
Pad3-1-S	11/16/18	Surface	5520	<0.500	2.91	7,466(136,6270,1060)	Sandy	GM	Pad	No
Pad3-1-2	11/16/18	2	64	<0.050	<0.300	195.9(0,161,34.9)	Loam	ML		
Pad3-1-5	11/16/18	5	320	<0.050	<0.300	129.3(0,86.2,43.1)	Caliche	GM		
Pad3-2-S	11/16/18	Surface	26000	<0.050	<0.300	13,850(0,11100,2750)	Sandy	GM	Pad	No
Pad3-2-2	11/16/18	2	9000	<0.050	< 0.300	<10.0	Loam	ML		
Pad3-2-5	11/16/18	5	768	<0.050	<0.300	103.9(0,65.2,38.7)	Caliche	GM		
Pad3-3-S	11/16/18	Surface	26800	<0.500	2.00	73559(159,59800,13600)	Sandy	GM	Pad	No
Pad3-3-2	11/16/18	2	160	<0.050	<0.300	181.17(0,124,57.7)	Loam	ML		
Pad3-3-5	11/16/18	5	96	<0.050	<0.300	78(0,78,0)	Caliche	GM		
Pad3-4-S	11/16/18	Surface	18800	<0.050	5.18	57095(435,47200,9460)	Sandy	GM	Pad	No
Pad3-4-2	11/16/18	2	144	<0.050	<0.300	116.7(0,102,14.7)	Loam	ML		
Pad3-4-5	11/16/18	5	96	<0.050	<0.300	56.1(0,56.1,0)	Caliche	GM		
Pad3-5-S	11/16/18	Surface	20800	<0.090	<0.300	72300(0,59500,12800)	Sandy	GM	Pad	No
Pad3-5-2	11/16/18	2	256	<0.050	<0.300	288(0,181,107)	Loam	ML		
Pad3-5-5	11/16/18	5	176	<0.050	<0.300	40(0,23.2,16.8)	Caliche	GM		
Pad3-6-S	11/16/18	Surface	21600	<0.500	<0.300	72300(0,59500,12800)	Sandy	GM	Pad	No
Pad3-6-2	11/16/18	2	528	<0.050	<0.300	<10.0	Loam	CL		
Pad3-6-5	11/16/18	5	128	<0.050	<0.300	<10.0	Caliche	GM		
Pad3-7-S	11/16/18	Surface	1040	<0.050	<0.300	4,493(0,3510,983)	Sandy	ML	Pad	No
Pad3-7-2	11/16/18	2	48	<0.050	<0.300	<10.0	Loam	ML		
Pad3-7-5	11/16/18		144	<0.050	<0.300	<10.0	Caliche	GM		
Pad3-8-S	11/16/18	Surface	160	<0.500	<0.300	136(0,95.6,40.4)	Sandy	ML	Pasture	No
Pad3-8-2	11/16/18	2	64	<0.050	<.300	<10.00	Loam	CL		
Pad3-8-5	11/16/18	5	48	<0.050	<0.300	<10.0	Caliche	GM		

Laboratory Analysis (Table 5)

Name	Date	Depth (feet)	Chloride	ВТЕХ	TPH(GRO, DRO,EXT)	Lithology	Soil Class	Pad/ Pasture	Within 1,000' FW
PAD 3-9.2	08/24/2019	2	<16.0	<0.300	<10.0	Loam	CL	Pasture	No
PAD 3-9.5	08/24/2019	5	144	<0.300	<10.0	Caliche	GM		
PAD 3-9.12	08/24/2019	12	16	<0.300	<10.0	Caliche	GM		
PAD 3-10.1	08/24/2019	1	<16.0	<0.300	<10.0	Loam	CL	Pasture	No
PAD 3-10.5	08/24/2019	5	240	<0.300	<10.0	Caliche	GM		
PAD 3-10.12	08/24/2019	12	32	<0.300	<10.0	Caliche	GM		
PAD 3-11.1	08/24/2019	1	384	<0.300	<10.0	Loam	CL	pad	No
PAD 3-11.5	08/24/2019	5	128	<0.300	<10.0	Caliche	GM		
PAD 3-11.12	08/24/2019	12	32	<0.300	<10.0	Caliche	GM		
PAD 3-12.1	08/24/2019	1	256	<0.300	<10.0	Loam	CL	Pad	No
PAD 3-12.5	08/24/2019	5	192	<0.300	<10.0	Caliche	GM		
PAD 3-12.12	08/24/2019	12	464	<0.300	<10.0	Caliche	GM		
PAD 3-13.1	08/24/2019	1	2720	<0.300	<10.0	Loam	CL	Pad	No
PAD 3-13.5	08/24/2019	5	144	<0.300	<10.0	Caliche	GM		
PAD 3-13.12	08/24/2019	12	288	<0.300	<10.0	Caliche	GM		
PAD 3-14.1	08/24/2019	1	48	<0.300	<10.0	Loam	CL	Pad	No
PAD 3-14.5	08/24/2019	5	128	<0.300	<10.0	Caliche	GM		
PAD 3-14.12	08/24/2019	12	112	<0.300	<10.0	Caliche	GM		
PAD 3-15.1	08/24/2019	1	544	<0.300	<10.0	Loam	CL	Pad	No
PAD 3-15.5	08/24/2019	5	16	<0.300	<10.0	Caliche	GM		
PAD 3-15.12	08/24/2019	12	384	<0.300	<10.0	Caliche	GM		
PAD 3-16.1	08/24/2019	1	32	<0.300	<10.0	Loam	CL	pad	No
PAD 3-16.5	08/24/2019	5	144	<0.300	<10.0	Caliche	GM		
PAD 3-16.12	08/24/2019	12	1410	<0.300	<10.0	Caliche	GM		

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

Soil Sample GPS

Name	GPS	-	Pad/Pasture
PAD3-1	32.325432°	-104.275178°	Pad
PAD3-2	32.325659°	-104.275162°	Pad
PAD3-3	32.325597°	-104.275375°	Pad
PAD3-4	32.325741°	-104.275448°	Pad
PAD3-5	32.325658°	-104.275618°	Pad
PAD3-6	32.325787°	-104.275746°	Pad
PAD3-7	32.325857°	-104.275615°	Pad
PAD3-8	32.326010°	-104.275553°	Pasture
PAD3-9	32.325907°	-104.275449°	Pasture
PAD3-10	32.325943°	-104.275613°	Pasture
PAD3-11	32.325839°	-104.275712°	Pad
PAD3-12	32.325729°	-104.275743°	Pad
PAD3-13	32.325651°	-104.275649°	Pad
PAD3-14	32.325582°	-104.275493°	Pad
PAD3-15	32.325471°	-104.275306°	Pad
PAD3-16	32.325548°	-104.275282°	Pad

Remediation/Closure

Commencement Date: November 16, 2018

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 #3 pad at the release. The release poses no threat to ground water.

Poly#1

The preliminary site delineation began on November 16, 2018 and concluded that the vertical extent of the release was less than 2' (bgs). Sample at 5' (bgs) further confirms this result. Poly #1 area measures approximately 1,969 square feet. This area was excavated to a depth of 2 feet, totaling approximately 146 cubic yards. The contaminated soil was hauled to an NMOCD approved disposal site.

Poly #2

The preliminary site delineation concluded that the vertical extent of the spill was less than 2' (bgs). Samples at 5' (bgs) further confirms this result. Poly area #2 measures approximately 3,913 square feet. This area was excavated to a depth of 2 feet, totaling approximately 290 cubic yards. The contaminated soil was hauled to an NMOCD approved disposal site.

Spray Area

The preliminary site delineation concluded that the spray area samples were within the NMOCD permissible remedial levels. No further action will be needed in this area.

Reclamation

The original location size of Saragossa 10 State #3 was approximately 54,544 Sq. feet. During remedial activities, the perimeter of the pad was downsized to reclaim land for New Mexico State Land Office. The reclaimed area of the pad measured approximately 34,141 Sq. feet, leaving the current size of the pad approximately 20,403 Sq. feet (See Attachment #11). The reclaimed area was seeded on March 13, 2020 (See Photos).

Soil Samples PAD3-9 through PAD3-16 were completed on August 24, 2019. The excavated areas on the location were back filled beginning September 02, 2019. Back filling was completed on September 06, 2019.

Revegetation and Noxious Weed Management

Seed Mixture: Warm Season SSR Grass Seed Mix 350 (See Photos)

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.

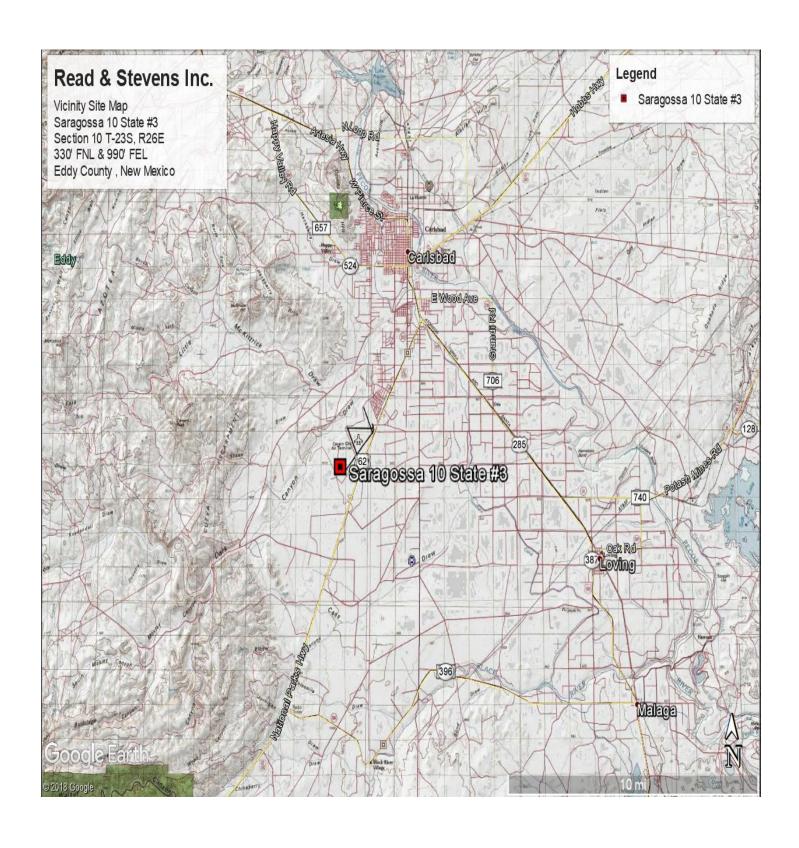
If you have any questions, please email me or call me at (575) 631-0131.

Thank you.

Eric Garcia

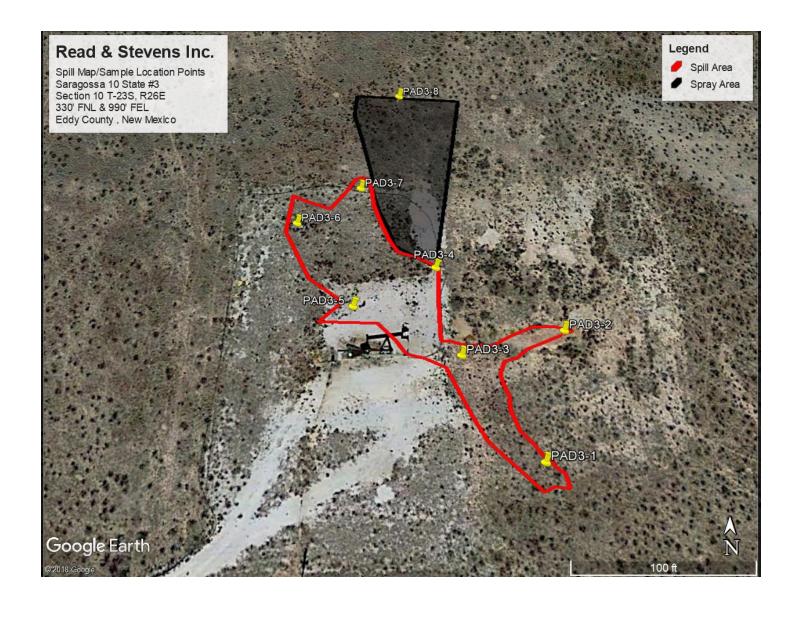
Republic Backhoe Service, LLC

Attachment 1
Vicinity Area Map

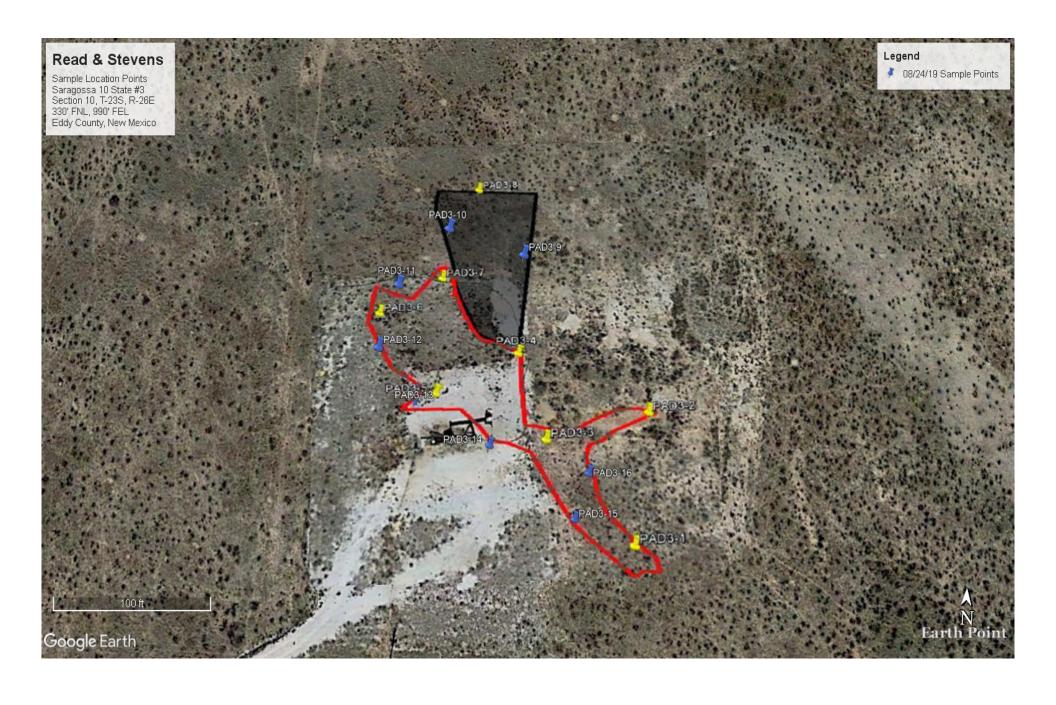




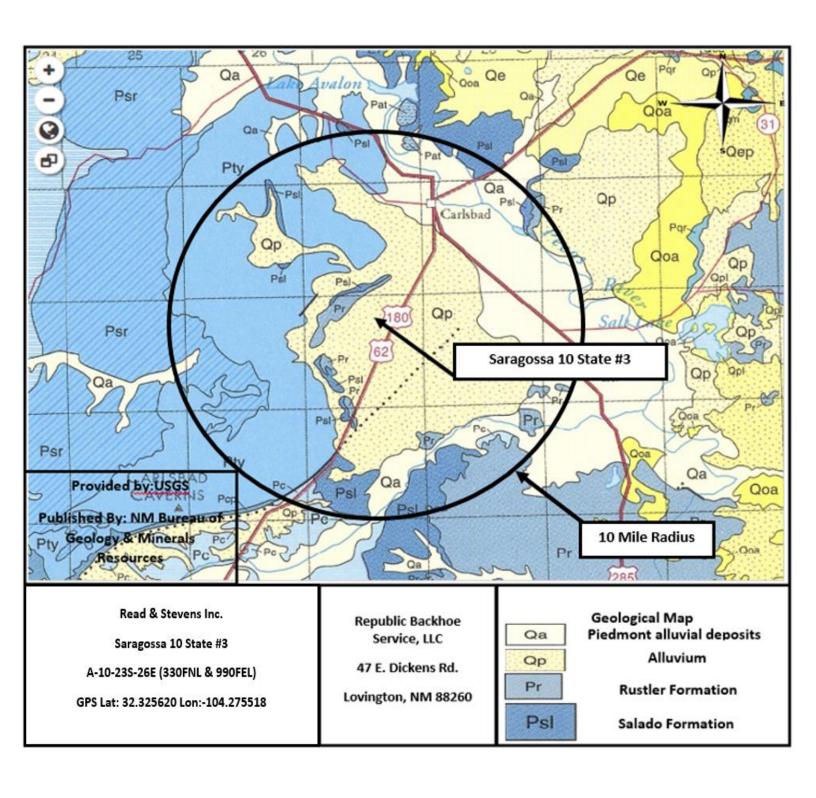
Attachment 2
Spill Map/Sample Location Points



Received by OCD: 3/19/2020 11:34:35 AM



Geological Map



Attachment #4 NMOSE Average Depth to Water



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

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

	ciosea)			١,	qua		занс	SHIEHI	COL TO IEE	(1 (1	VILDOS OTIVITALE	nctors)	(III Icct)		
POD Number	Code	POD Sub-	County		Q			Trees	Pna	х	Y	DistanceDepth	WellDonth	Wat	
C 02264	Code	CUB	ED	04	10		03	23S	26E	568065	3577254*	523	260	ater Colu	шп
C 02382		C	ED			4	03	238	26E	568065	3577254*	523	288	248	40
C 02393		C	ED			4	03	23S	26E	568065	3577254*	523	290	245	45
C 01310		C	ED	1	3	2	11	23S	26E	569409	3576366*	1275	250	220	30
C 01548		C	ED		3	2	11	238	26E	569510	3576267*	1403	250		
C 01635		C	ED		3	2	11	23S	26E	569510	3576267*	1403	255	205	50
C 01708		C	ED		3	2	11	23S	26E	569510	3576267*	1403	275	236	39
C 01843		C	ED		3	2	11	23S	26E	569510	3576267*	1403	252	217	35
C 02153		C	ED	1	4	2	11	238	26E	569818	3576371*	1669	275	200	75
C 01866		C	ED	2	4	2	11	238	26E	570018	3576371*	1864	245	212	33
											Avera	ige Depth to Water:	:	222 feet	
												Minimum Deptl	1:	200 feet	

248 feet Maximum Depth:

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 568191.34

Northing (Y): 3576746.39

Radius: 2000

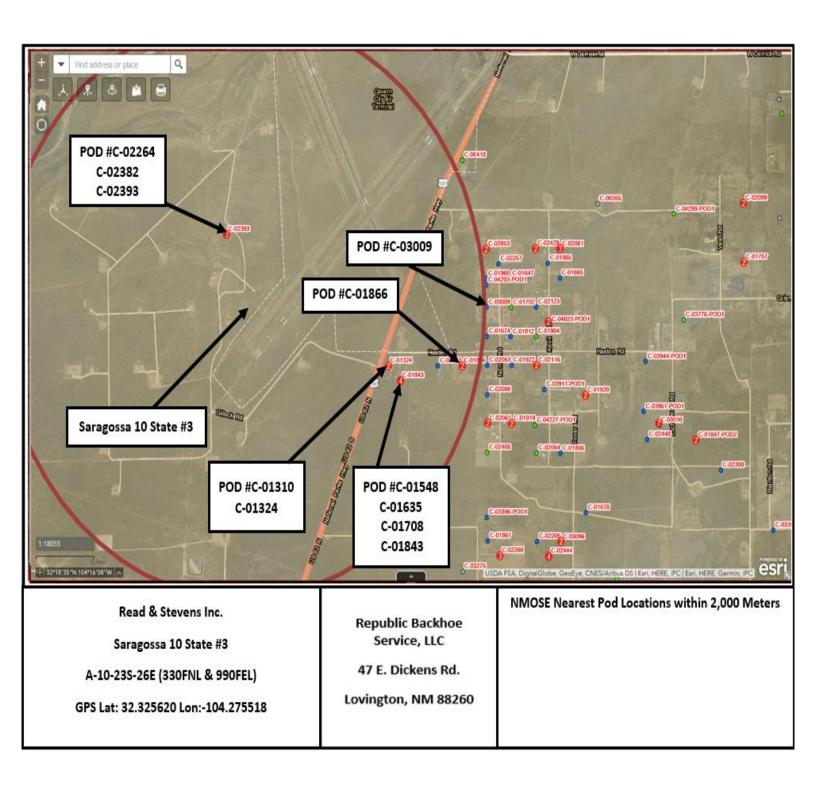
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/16/19 9:00 AM

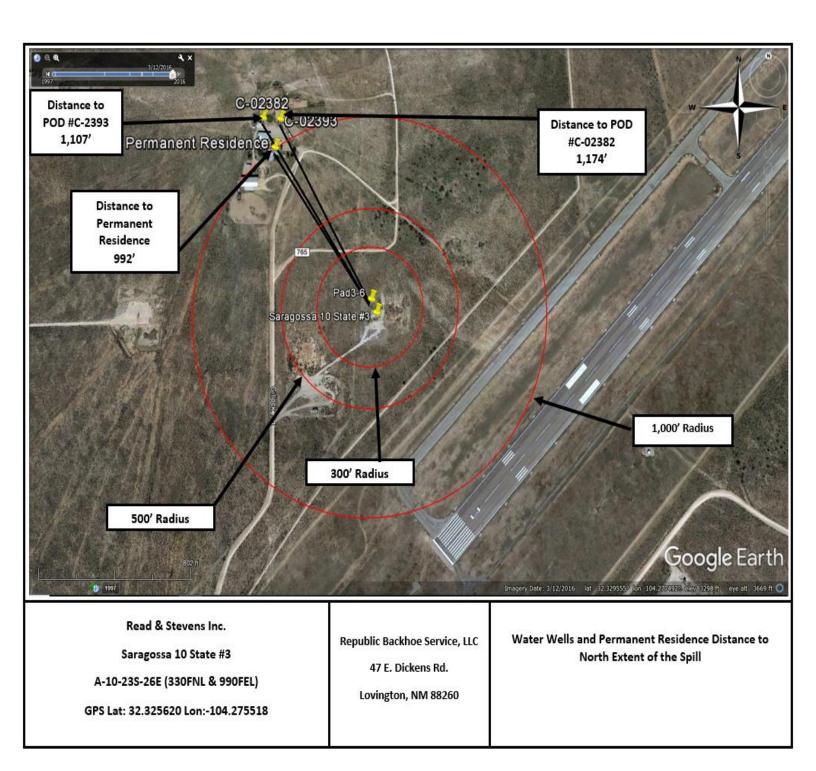
WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help

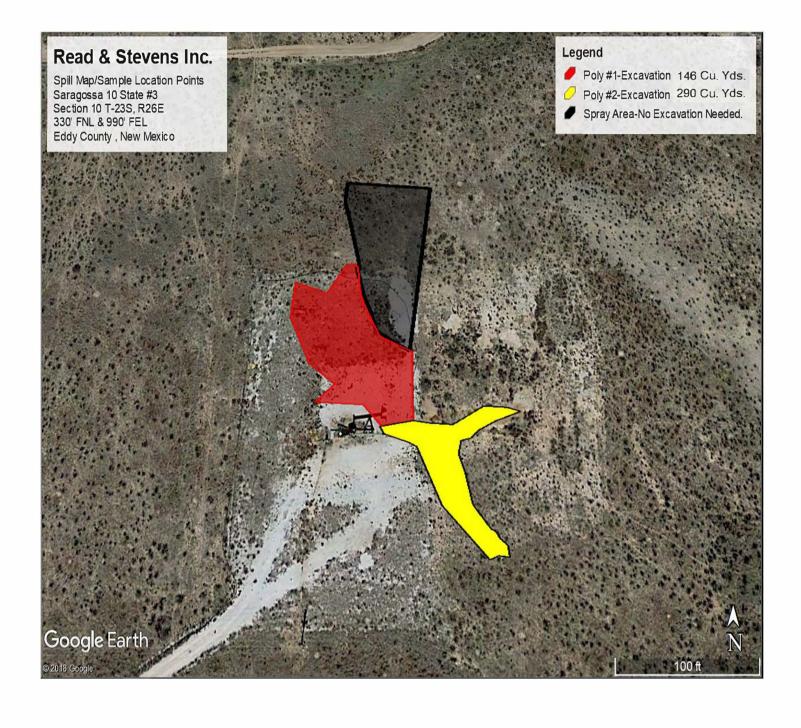
Pod Locations



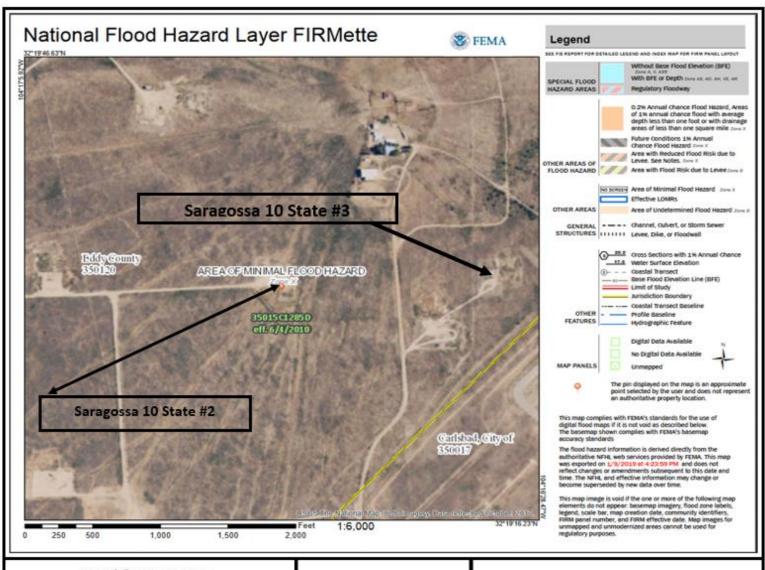
Northern Extent to Nearest Water Well



Excavation Map



Floodplain Map



Read & Stevens Inc.

Saragossa 10 State #3

A-10-23S-26E (330FNL & 990FEL)

GPS Lat: 32.325620 Lon:-104.275518

Republic Backhoe Service, LLC

47 E. Dickens Rd.

Lovington, NM 88260

FEMA Flood Hazard Map

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

- 1. Swiss Standard SN 670 010b, Characteristic Coefficients of soils, Association of Swiss Road
- 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

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

Spill Calculations

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

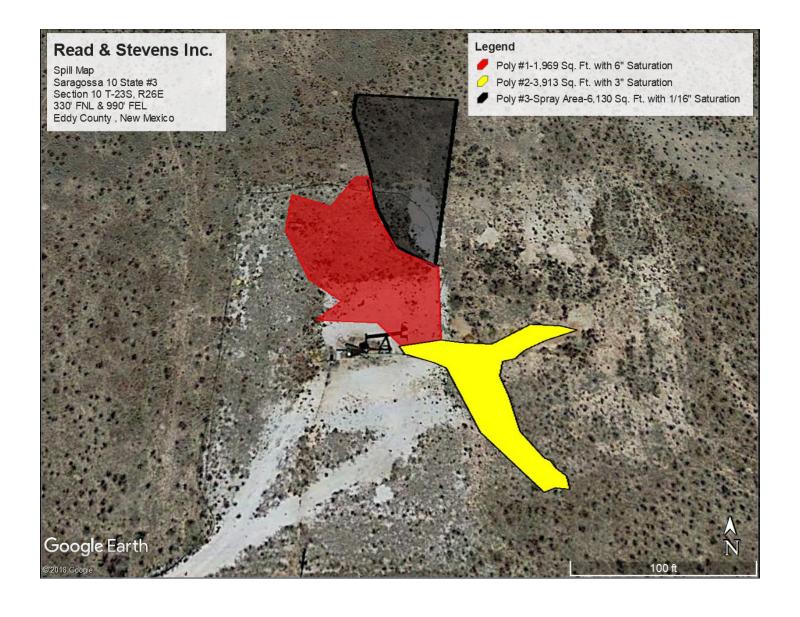
Location of Spill: Saragossa 10 State #3

Date of Spill: <u>10/26/2018</u>

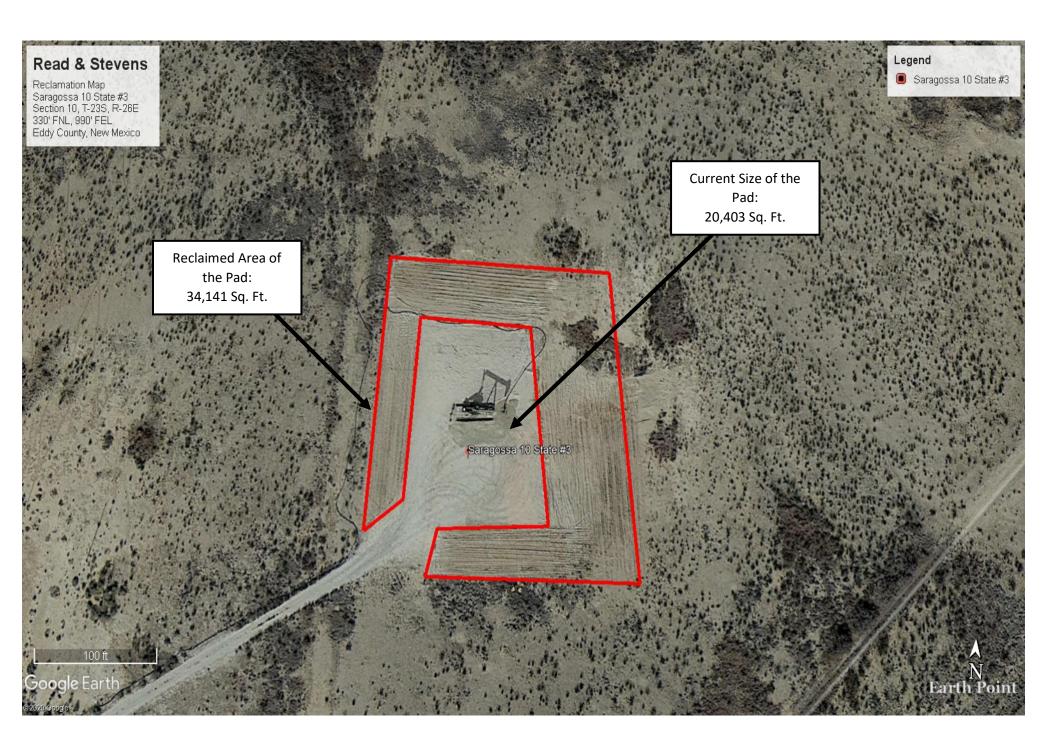
Site Soil Type: ___ Sandy Loam & Caliche

Average Daily Production: 3.5 BBL Oil 43.6 BBL Water

		Total A	rea Calculat	ions			
Total Surfa	ce Area	Width	Length	Wet Soil Depth	Oil (%)	Soil Class.	Porosity%
Polygon3 #1	1,969			6"	7	GM	0.15
Polygon #2	3,913			3"	7	GM	0.15
Polygon #3	6,130			1/16"	93	GM/ML	0.18
Saturated Soi	l Volume (calculation	<u>15:</u>	<u>H2O</u>			<u>OIL</u>
Polygon #1		984.	50	24.46			1.84
Polygon #2		9	78	24.30			1.83
Polygon #3		383.	13	0.86			11.42
Total Solid/ Liquid Volume: <u>Estimated Volumes Spilled</u>		<u>H20</u> 49.62			<u>OIL</u> 15.09		
Liquid Recovered:			0			0	
Total Spill Liquid:				64	1.71		



Attachment #11
Reclamation Map



C-141 Form

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

State of New Mexico Energy Minerals and Natural Resources 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 & Stevens Inc.	OGRID 18917
	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	32.325600	Longitude -104.275502
		(NAD 83 in decimal degrees to 5 decimal places)

Site Name Saragossa 10 State #003	Site Type Oil Well	
Date Release Discovered 10/27/2018	API# (if applicable) 30-015-34831	

Unit Letter	Section	Township	Range	County
Α	10	23S	26E	Eddy

Surface Owner: State Federal Tribal Privat	(Name:
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Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Volume Released (bbls) 15.09 ✓ Crude Oil Volume Recovered (bbls) Volume Released (bbls) 49.62 Volume Recovered (bbls) Produced Water √ Yes
☐ No Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Recovered (provide units) Volume/Weight Released (provide units) Cause of Release

The release was attributed to a blown packing at the well head. The well was repacked and put back into operation.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

	Incident ID	
	District RP	
	Facility ID	
1	Application ID	

Was this a major	If YES, for what reason(s) does the respon	isible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The end on the state of the sta	N5 kk-
	The release was more than 2	25 barrels.
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible j	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
☑ The source of the rele	ease has been stopped.	
☑ The impacted area ha	is been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti	fications 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 and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
	var.	- Manager Production 9 Operations
Printed Name: Joe Tov	/dl	Title: Manager, Production & Operations
Signature: A Call	1 ave	Date: 1/16/2019
email: jtovar@read-s	stevens.com	Telephone: (575) 390-2425
		acrepaose. 1
OCD Only		
Received by:		Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

	222 (ft bes)
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant 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?	☑ Yes □ No

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

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
✓ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
•
☐ Boring or excavation logs
Photographs including date and GIS information
-
☐ Topographic/Aerial maps
☐ Laboratory data including chain of custody
2 Laboratory data including chain of custody

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In						
Printed Name: Joe Tovar	Title: Manager, Production & Operations						
Signature Date: 1/16/2019							
email: //ovar@read-stevens.com	Telephone: (575) 390-2425						
OCD Only							
Received by:	Date:						

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)
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete 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. Printed Name: Joe Tovar Title: Manager, Production & Operations
1 - T
Signature: Date: 1/16/2019
email: j/ovar@read-stevens.com Telephone: (575) 390-2425
OCD Only
Received by: Date:
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
Signature: Date:

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: Date:
Signature: Date: Date: Date: Date: Date: Date:
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:

Attachment #13
Laboratory Analysis



November 29, 2018

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #3

Enclosed are the results of analyses for samples received by the laboratory on 11/21/18 11:25.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 29



Analytical Results For:

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

Received: Reported: Project Name:

Project Number: Project Location: 11/21/2018 11/29/2018

SARAGOSSA 10 ST. #3 NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: Sampling Type:

11/16/2018 Soil Cool & Intac

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

Sample ID: PAD 3 - 7 SURFACE (H803424-01)

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	3510	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	983	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-141	7						
Surrogate: 1-Chlorooctadecane	239	% 37.6-14	7						

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*=Accredited Analyte

NAME NOTE: Liability and Comagns. Contracts labelity and shorts contains remark for any stem arriving whether loads in such at the first in the label in the amount yet by short for any stem, including these for registers and any other sound whether with the labelity (12) days after compatible of the application service. In one served what Contract is to take the included or consequently descript, which is before the contract to the contract of the application arrives and of or original to the profession of the contract to the contract to the contract to the contract of the contract to the contract t

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 29



Analytical Results For:

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

Received: Reported: Project Name:

Project Number:

11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3

NONE GIVEN READ & STEVENS- CARLSBAD NM

Project Location:

11/16/2018 Sampling Date: Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: PAD 3 - 1-5 (H803424-02)

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1069	6 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	320	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	86.2	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	43.1	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	97.3 9	6 41-142							
Surrogate: 1-Chlorooctadecane									

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name:

Project Number:

Project Location:

11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: Sampling Type: 11/16/2018 Soil

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: PAD 3 - 1-2 (H803424-03)

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	<0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	161	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	34.9	10.0	11/27/2018	ND					
Surrogate: 1-Chiorooctane	90.9	% 41-142							
Surrogate: 1-Chlorooctadecane	103 5	% 37.6-14	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name: Project Number:

Project Location:

11/21/2018 11/29/2018

SARAGOSSA 10 ST. #3 NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: Sampling Type: Sampling Condition:

Sample Received By:

11/16/2018 Soil Cool & Intact

Tamara Oldaker

Sample ID: PAD 3 - 1 SURFACE (H803424-04)

BTEX 8021B Analyte	mg/kg		Analyzed By: ms						
	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	<0.500	0.500	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.500	0.500	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	2.91	1.50	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<3.00	3.00	11/28/2018	ND					
Surrogate: 4. Promofiumohamana (PII				ND					_

Surrogate:	4-Bromofluorobenzene	(PIL	111 %
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73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	136	10.0	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	6270	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	1060	10.0	11/27/2018	ND					

Surrogate: 1-Chiorooctane 113 % 41-142 Surrogate: 1-Chlorooctadecane 257 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name: Project Number:

Project Location:

11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3

SARAGOSSA 10 ST. # NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date:

Sampling Type: Sampling Condition: Sample Received By: 11/16/2018 Soil

Cool & Intact Tamara Oldaker

Sample ID: PAD 3 - 2 SURFACE (H803424-05)

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	< 0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	11100	50.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	2750	50.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	93.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	483 5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 11/21/2018 Reported: 11/29/2018 Project Name: SARAGOSSA 10 ST. #3 Project Number:

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: Sampling Type:

11/16/2018

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: PAD 3 - 2 - 5 (H803424-06)

Project Location:

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	<0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/28/2018	ND	400	100	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	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	65.2	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	38.7	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	1						
Surrogate: 1-Chlorooctadecane	96.1	% 37.6-14	7						

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MIRE NOTE. Liability and Consepts. Contracts labelity and shareds contract serving whether issued in surface or lock, shall be leadered and by share the contracts of the contract and the contract of the contract and the contract of the co

Colony & trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

11/21/2018 Received: Reported: 11/29/2018 SARAGOSSA 10 ST. #3 Project Name: Project Number:

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type: Soil

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

Sample ID: PAD 3 - 2 - 2 (H803424-07)

Project Location:

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	<0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	11/28/2018	ND	400	100	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	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chiorooctane	88.9	% 41-142							
Surrogate: 1-Chlorooctadecane	95.9	% 37.6-14	7						

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Colony to trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

 Received:
 11/21/2018

 Reported:
 11/29/2018

 Project Name:
 SARAGOSSA 10 ST. #3

Project Number: NONE GIVEN

Project Location: READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type: Soil

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

Sample ID: PAD 3 - 7 - 2 (H803424-08)

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 5	% 73.3-12	9						
Chloride, 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	11/28/2018	ND	400	100	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	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	1						
Surrogate: 1-Chlorooctadecane	96.6	% 37.6-14	_						

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MHH 107%. Untilly and Consepts. Controls beliefly and stands controls modely for any stand action, whether issued or body, that its lended to the amount paid by stand for averages. It stands, including these for engagement any other source whichever stand to describe the stands of the supported stands are sourced to the stands of the supported stands, are stands are sourced as the stands of the supported stands, as which in the stands of the supported stands, and of or whichever the title part of the stands of the

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Fax To: NONE

Received: 11/21/2018 11/29/2018 Reported:

Project Name: SARAGOSSA 10 ST. #3 Project Number: NONE GIVEN

Project Location: READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type: Soil

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

Sample ID: PAD 3 - 3 SURFACE (H803424-09)

•	•	•							
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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	0.051	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	0.112	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	1.83	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	2.00	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	121	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	159	100	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	59800	100	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	13600	100	11/27/2018	ND					
Surrogate: 1-Chlorooctane	113 5	% 41-142							
Surrogate: 1-Chlorooctadecane	2120	% 37.6-14	7						

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MARIE 107% Untilly and Consepts. Controls behilfly and shorts entering monely for any stars arising, whether issued or bod, what is behind to the amount just by short the consepts. At stars, including Plans for conjugate and any other source what has desired until behind to the property of the appropriate service. In or word with Control is behind to consequent diverges, producing which intelliges, behand intelliges, behand to behind the behand or any other sources arising of the conjugate intelliges. Any other sources arising of the conference of the sources are all the problemation of the sources of the sources for sources for any other sources are all the conference of the sources are all the sources of the source

Colony & trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

 Received:
 11/21/2018

 Reported:
 11/29/2018

 Project Name:
 SARAGOSSA 10 ST. #3

 Project Number:
 NONE GIVEN

11/29/2018 Sampling Type: SARAGOSSA 10 ST. #3 Sampling Condi NONE GIVEN Sample Receive READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PAD 3 - 3 - 2 (H803424-10)

Project Location:

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	<0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/28/2018	ND	400	100	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	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	124	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	57.7	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	82.3	% 41-142	7						
Surrogate: 1-Chlorooctadecane	89.0	% 37.6-14	7						

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NAMES 1975. Liability and Consepts. Contracts baility and sharely amounts around the very size arrange, whether issued in suchast and the facility of the amount paid by sharel for analysis. At sizes, including from the regispose and any other sound which are also as a supplier of the application service. In or sound with Contract is the facility of the companion of the application service. In or sound with Contract is the facility of the contraction of the application service. In or sound, which is the participation of the contraction of the service of the service foresteen, the contraction of the service foresteen, the contraction of the service of the service foresteen, the contraction of the service of the service foresteen, and the contraction of the service foresteen of the servic

Colony & trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name: 11/21/2018 11/29/2018

SARAGOSSA 10 ST. #3 NONE GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 11/16/2018 Soil

Cool & Intact Tamara Oldaker

Project Number: READ & STEVENS- CARLSBAD NM Project Location:

Sample ID: PAD 3 - 3 - 5 (H803424-11)

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	11/28/2018	ND	1.81	90.3	2.00	1.18	
Toluene*	<0.050	0.050	11/28/2018	ND	1.75	87.3	2.00	0.834	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.69	84.7	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.50	91.6	6.00	0.691	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120	% 73.3-12	9						
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	11/28/2018	ND	400	100	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	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	78.0	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	87.4	% 41-142							
Surrogate: 1-Chlorooctadecane	93.8	% 37.6-14	7						

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Colony to trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name: Project Number: 11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3 NONE GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Soil Cool & Intact Tamara Oldaker

11/16/2018

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 7 - 5 (H803424-12)

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	<0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/28/2018	ND	400	100	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	11/27/2018	ND	214	107	200	7.11	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	222	111	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142	7						
Surrogate: 1-Chlorooctadecane	86.5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name:

Project Number:

Project Location:

11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date:

Sampling Type: Sampling Condition: Sample Received By: 11/16/2018 Soil Cool & Intact Tamara Oldaker

Sample ID: PAD 3 - 8 - 5 (H803424-13)

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 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	Qualifier
Chloride	48.0	16.0	11/28/2018	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	11/28/2018	ND	212	106	200	5.81	
DRO >C10-C28*	<10.0	10.0	11/28/2018	ND	215	107	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					
Surrogate: 1-Chlorooctane	72.3	% 41-142	1						
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	7						

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Colony to trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name:

Project Number:

Project Location:

11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3

NONE GIVEN

READ & STEVENS- CARLSBAD NM

11/16/2018 Sampling Date: Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: PAD 3 - 4 - 5 (H803424-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	< 0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.9	% 73.3-12	9						
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	11/28/2018	ND	400	100	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	11/28/2018	ND	212	106	200	5.81	
DRO >C10-C28*	56.1	10.0	11/28/2018	ND	215	107	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	11/28/2018	ND					
Surrogate: 1-Chlorooctane	86.2	% 41-142							
Surrogate: 1-Chlorooctadecane	94.9	% 37.6-14	7						

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Colony to trains Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name:

Project Number:

11/21/2018 11/29/2018

SARAGOSSA 10 ST. #3 NONE GIVEN

READ & STEVENS- CARLSBAD NM Project Location:

Sampling Date:

Sampling Type: Sampling Condition: Sample Received By: 11/16/2018 Soil Cool & Intact

Tamara Oldaker

Sample ID: PAD 3 - 4-2 (H803424-15)

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	< 0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/28/2018	ND	400	100	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	11/28/2018	ND	212	106	200	5.81	
DRO >C10-C28*	102	10.0	11/28/2018	ND	215	107	200	4.06	
EXT DRO >C28-C36	14.7	10.0	11/28/2018	ND					
Surrogate: 1-Chiorooctane	88.0	% 41-142							
Surrogate: 1-Chlorooctadecane	100 9	% 37.6-14	7						

*=Accredited Analyte Cardinal Laboratories

NAME 1976. Lightly and Comagn. Controls lightly and shared sensions remark for any stem princy, whether issued in their, that its lended in the annual part by stand for exception. At stems, beauting place for registers and any other senses whethere when the descend control is preferred within 1996; (32) days after computing of the appearance of the appearance of the control is preferred to the profession of the control is preferred to the control in the profession of the control is the profession of the control in the profession of the control is preferred to the profession of the control is the profession of the control in the profession of the control is preferred to the profession of the control in the profession of the control is the profession of the control in the profession

Colony to trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

 Received:
 11/21/2018

 Reported:
 11/29/2018

 Project Name:
 SARAGOSSA

Project Number:

Project Location:

SARAGOSSA 10 ST. #3

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type: Soil

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

Sample ID: PAD 3 - 4 - SURFACE (H803424-16)

•	•	•								
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	11/28/2018	ND	1.83	91.3	2.00	0.0710		
Toluene*	0.106	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920		
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08		
Total Xylenes*	5.07	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833		
Total BTEX	5.18	0.300	11/28/2018	ND						
Surrogate: 4-Bromofluorobenzene (PIL	150 5	% 73.3-12	9							
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	11/28/2018	ND	400	100	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	435	100	11/28/2018	ND	212	106	200	5.81		
DRO >C10-C28*	47200	100	11/28/2018	ND	215	107	200	4.06		
EXT DRO >C28-C36	9460	100	11/28/2018	ND						
Surrogate: I-Chiorooctane	189 5	% 41-142	1							
Surrogate: 1-Chlorooctadecane	1410	% 37.6-14	7							

Cardinal Laboratories *=Accredited Analyte

MIRE 1078. Littlify and Consigns. Controls listlify and starts make in order to my starn arting, whether board or bod, what is limited to the amount just by start the analysis. At starts, including these the registered and my other sound what becomes what the desired control is desired and the control of the analysis artins. In one word start Control is listle to installed or secondarily desired, which is listle to extend the analysis of the control of the application of the control of the analysis of the control of the contr

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

 Received:
 11/21/2018

 Reported:
 11/29/2018

 Project Name:
 SARAGOSSA 10 ST. #3

 Project Number:
 NONE GIVEN

SARAGOSSA 10 ST. #3 Sampling Condit NONE GIVEN Sample Received READ & STEVENS- CARLSBAD NM

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

Sampling Date:

11/16/2018

Sample ID: PAD 3 - 5- SURFACE (H803424-17)

Project Location:

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.090	0.050	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	< 0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	11/28/2018	ND	212	106	200	5.81	
DRO >C10-C28*	58100	100	11/28/2018	ND	215	107	200	4.06	
EXT DRO >C28-C36	15300	100	11/28/2018	ND					
Surrogate: 1-Chlorooctane	86.0	% 41-142	7						
Surrogate: 1-Chlorooctadecane	2160	% 37.6-14	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name:

Project Number: Project Location: 11/21/2018 11/29/2018

11/29/2018 SARAGOSSA 10 ST. #3 NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date:

Sampling Type: Sampling Condition: Sample Received By:

11/16/2018 Soil

> Cool & Intact Tamara Oldaker

Sample ID: PAD 3 - 5-2 (H803424-18)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 73.3-12	9						
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	11/28/2018	ND	400	100	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	11/28/2018	ND	212	106	200	5.81	
DRO >C10-C28*	181	10.0	11/28/2018	ND	215	107	200	4.06	
EXT DRO >C28-C36	107	10.0	11/28/2018	ND					
Surrogate: 1-Chlorooctane	84.8	% 41-142							
Surrogate: 1-Chlorooctadecane	95.8	% 37.6-14	7						

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Colony to trains

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 11/21/2018 Reported: 11/29/2018 Project Name: SARAGOSSA 10 ST. #3

Project Number: NONE GIVEN READ & STEVENS- CARLSBAD NM

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

11/16/2018 Soil Cool & Intact

Tamara Oldaker

Sample ID: PAD 3 - 5-5 (H803424-19)

Project Location:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	<0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/28/2018	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	11/28/2018	ND	212	106	200	5.81	
DRO >C10-C28*	23.2	10.0	11/28/2018	ND	215	107	200	4.06	
EXT DRO >C28-C36	16.8	10.0	11/28/2018	ND					
Surrogate: I-Chiorooctane	86.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.6	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 11/21/2018 11/29/2018 Reported: Project Name: SARAGOSSA 10 ST. #3

Project Number: NONE GIVEN Project Location:

READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type: Soil

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

Sample ID: PAD 3 - 8-2 (H803424-20)

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	<0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/28/2018	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	11/27/2018	ND	215	107	200	8.45	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	227	114	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	77.8	% 41-142	7						
Surrogate: 1-Chlorooctadecane	79.0	% 37.6-14	-						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

 Received:
 11/21/2018

 Reported:
 11/29/2018

 Project Name:
 SARAGOSSA 10 ST. #3

 Project Number:
 NONE GIVEN

NONE GIVEN
READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type: Soil

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

Sample ID: PAD 3 - 8 - SURFACE (H803424-21)

Project Location:

•									
BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	160	16.0	11/28/2018	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	Qualifie
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	215	107	200	8.45	
DRO >C10-C28*	95.6	10.0	11/27/2018	ND	227	114	200	1.21	
EXT DRO >C28-C36	40.4	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	87.5	% 41-141							

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 11/21/2018 Reported: 11/29/2018 Project Name: SARAGOSSA 10 ST. #3 Project Number:

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: 11/16/2018 Sampling Type:

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

Sample ID: PAD 3 - 6-5 (H803424-22)

Project Location:

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	<0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/28/2018	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	11/27/2018	ND	215	107	200	8.45	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	227	114	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142	7						
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

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Colony to trains Celey D. Keene, Lab Director/Quality Manager

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11/16/2018

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

 Received:
 11/21/2018

 Reported:
 11/29/2018

 Project Name:
 SARAGOSSA 10 ST. #3

 Project Number:
 NONE GIVEN

 2018
 Sampling Type:

 DSSA 10 ST. #3
 Sampling Condition:

 GIVEN
 Sample Received By:

Sampling Date:

Project Location: READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 6-2 (H803424-23)

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/28/2018	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	11/27/2018	ND	215	107	200	8.45	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	227	114	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	89.5	% 41-142							
Surrogate: 1-Chlorooctadecane	93.8	% 37.6-14	7						

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MIRE NOTE. Listify and Consigns. Controls listify and sharts maken a maken to any stars arising, whether leads in mobile to the, shall be limited to the amount just by shall be analysis. At stars, including these he registered any other access whitelesses white the control is to the start of the control to the control to the control of process and shall be about the control to the test of process and design, which is the control of the c

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported: Project Name:

Project Number:

11/21/2018 11/29/2018 SARAGOSSA 10 ST. #3

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sampling Date: Sampling Type: Sampling Condition:

Sample Received By:

11/16/2018 Soil

Cool & Intact Tamara Oldaker

Project Location:

Sample ID: PAD 3 - 6 - SURFACE (H803424-24)

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	11/28/2018	ND	1.83	91.3	2.00	0.0710	
Toluene*	< 0.050	0.050	11/28/2018	ND	1.78	89.1	2.00	0.920	
Ethylbenzene*	<0.050	0.050	11/28/2018	ND	1.72	86.2	2.00	1.08	
Total Xylenes*	< 0.150	0.150	11/28/2018	ND	5.07	84.4	6.00	0.833	
Total BTEX	<0.300	0.300	11/28/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	11/28/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	11/27/2018	ND	215	107	200	8.45	
DRO >C10-C28*	59500	100	11/27/2018	ND	227	114	200	1.21	
EXT DR0 >C28-C36	12800	100	11/27/2018	ND					
Surrogate: 1-Chlorooctane	78.6	% 41-142							
Surrogate: 1-Chlorooctadecane	1640	% 37.6-14	_						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 25 of 29



Notes and Definitions

5-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 26 of 29

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Page 1083



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Martic Republic Bockhoe Service Project Garcia Address 47) EDIC Large Red Same NM ZESSEGGO Address 47) EDIC Large Red Some NM ZESSEGGO Address 47) EQUITOR Project Owner Red Project Large NM ZESSEGGO Address FO COX 1518 Addres		ייופטעויס	Sample Condition CHECKED BY Cool Intect (Initials)	Delivered By: (Circle One) Sampler - UPS - Bus - Other: 3.5
Backhoe Service PO. #: Kcl State: NM Zp.888060 Attn: Oe Owcr Fax #: Project Owner: Record Service Project Owner: Record Service Project Owner: Record Service Project Owner: Record Service Address: PO Sox 18 Project Owner: Record Service State: NM Zp. 88 20 Phone #: 575-622-3 Phone #: 575-622		E) 1001/14		Time
Backhoe Service PO.# Kel State NM Zp.88860 Attn: Oe lower Fax #: Project Owner: Pead A Stevers City: Rocue October State NM Zp. 88 A Project Owner: Pead A Stevers City: Rocue October State NM Zp. 88 A Phone #: 575-6223 Fax #: 575-6223 Phone #: 575-6223 Fax #: 575-	rcia 62 @hotrnail.com	Email: Ericgo	mun ou and	Ì
BREEL TO ANALYS State NM ZP\$88860 Attra-Ope Ower Fax #: Project owner: Pread A Deversion: Project owner: Pr		MARKS	Thursday William No CRE	8
BOCKhoe Service Rel State NM ZP-888060 Attn-Ope Company, Paped + Steplans Address: PO Box 1518 Project Owner: Preod + Stevens PO Box 1518 Project Ow		J⊞ D Yes	Received By:	Relinguished By:) Date: 18
BOCKhoe Service Company Project Owner Project Proje	1	Ì	e condition was also assessed in westing and deceased by Granting with 100 days after the forest threat of the Brazil Federates, I was to be considered, both of the processor for profession for considered by district the State Amparitions of which we much define to blood upon upon of the city on depend consists of	anapase. All calorus lectuding broat for regisperse and any other public which the other peace, the selection (shift for both peace). In the description of Control to Education for Control of the Control to Control to Education (shift for the Control to
State NM ZP.88860 Author Doc # Company Pand + Stever Fax # Project Owner: Product Stever City: Project Owner: P		n chel forth	chain anding whether based in controls or tax, shall be limited to the amount paid by th	PLEASE NOTE: Likeling and Carregos, Capitasis Bibliograph designations in they for an
Rel Company, Pack to Co		×	-	3.3.3
State NM ZP-88860 Attn. Oc Company: PROCE TO ANALYS State NM ZP-88860 Attn. Oc Company: PROCE TO ANALYS Fax #: Project Owner: Acod Actins of Company: PROCE TO Actins Oc Cowar Address: PO COX 1518 Project Owner: Acod Actins Oc Cowar Address: PO COX 1518 Project Owner: Acod Actins Oc Cowar Address: PO COX 1518 Project Owner: Acd Actins Oc Cowar Address: Presservy Soulburger State: NM Zp-88860 Attn. Oc Cowar Address: PO COX 1518 Project Owner: Acd Actins Oc Cowar Address: Presservy Soulburger Presservy Soulburger ACIDIBASE TIME A		×	5	9 PAD 3.3. Surface
State N.M. ZPSSSCO Attn. OC Company. PROD ANALYS Fax #: Project owner: Prod Address: PO BOX 1518 Project owner:		×	-	€ PAN 3-7-2
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BOCK hoe Service BIRL TO ANALYS State NM Zp.888660 Attn Doe Company, Boot + Stevers Fax # Project Owner: Preod + Stevers GROUNDWATER WASTEWATER WASTEWATER ACIDVBASE ICE / COOL OTHER: ACIDVBASE ICE / COOL ANAPPING A		×	0	
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BOCK hoe Service BIREL TO ANALYS Bock hoe Service Po. #: BREL TO ANALYS BOCK hoe Service Po. #: BREL TO ANALYS FEX #: FOUND HORSE POLICY COMPANY PROCEDUCY FOUND HORSE POLICY CONCUMP FOUND HORSE POLICY FOR #: 575-622-3700 FEX #:		×		2 PAD 31-5
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BOCKhoe Service PO.#: Kel State NM Zp:888660 Attn-Ope lower Fax #: Project owner: Peodd Stevers city: Roswell YO State #3 WATHEX PRESERY SNAPHING PRESERY SNAPHING ANALYS A		TP 3300	ONT OUN STE IL JUDG HER	
Backhoe Service Po.#: Kel State NM Zp:888460 Attn: Oe lower Fourth Peods Stevens: Po Box 1518 Project Owner: Peods Stevens: Po Box 1518 Project Owner: Peods Stevens: NM Zp: 88202 YO State 3 MATRIX PRESERV SAMPLING Fax #: 675-622-3643 OE B # HE PRESERV SAMPLING OE B # HE		H	TAIN NDW EWA:	Sample I.D.
BOCKhoe Service PO.#: Kel Company: Peoch + Stevers State: NM Zp-88860 Attn: Oe lower Fax #: Project owner: Preoch State: NM Zp: 88 803 Phone #: 575-688770 Fax #: 575-688770 Fax #: 575-688770 Fax #: 575-688770 Fax #: 575-688770		χ	ERS ATER YER	
BOCKhoe Service PO.#: Kel State: N.M. Zp:888460 Attn: Doe Towar Fax #: Project owner: Pread Address: PO Box 1518 Project owner: Pread State: N.M. Zp: 88 202 Phone #: 575-622-3643 MATRIX [PRESERV] SWAPLING		ic	2	
Bockhoe Service Po.#: Kel State: NM Zp:888460 Attn: Doe Towar Fax#: Project owner: Dead Stevers City: Moswell 10 State: NM Zp:883403 Phone #: 575-63337643		_	PRESERV	0
BOCKhoe Service PO.#: Kel Company: Peoch + Stevers State: NM Zp:88860 Attn: Joe Jowar Address: PO Box 1518 Project Owner: Peoch Stevers city: Roswell 10 State # 3 State: NM Zp: 88 202		200	2000 - COO -	, Car
BOCKhoe Service PO.#: Kel Company: Peoch + Stevers State: N.M. Zp:88860 Attn: Doe Lower Fax #: Project owner: Peoch Stevers City: Roswell TO State 4.3 State: N.M. Zp: 88803		3	CO. 200	ĺ
BOCKhoe Service PO.#: Kel State: NM Zp-88860 Attn: Joe Jowar Address: PO Box 1518 Project Owner: Prendy Steverscity: Roswell		<u>છ</u>	State: N/M Zip: 88 20	Sara Meso
BOCKhoe Service BREL TO ANALYS Kel Company: Peoch + Stevers State: NM Zp-88860 Attn: Joe Joycx Address: PO BOX IS18			head a Cheversony: hospital	
BOCKhoe Service BREL TO ANALYS Kol Company: Peoch + Stevens State: N.M. Zp.88860 Attn: Doc Jovan		8	Address 10 Cox 15	
Bockhoe Service BREL TO ANALYS Roll Company: Report + Stevens			Attn: Oce	ndaniwa
Bockhoe Service BALL TO ANALYS		Wey 6	company hand + Ste	E Dickens
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	ANALYSIS REQUEST			Prothoe
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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phone #5154631-0131 Address: 4) E Dickens Kol Project Location: (anspac Project Name: Souro. opsso. ampany Name Hepublic Bockhoe Relinguished By: Relinquished By Sampler - UPS - Bus - Other: Lab I.D. smpler Name: GCC Delivered By: (Circle One) asmu 0.000 575) 393-2326 FAX (575) 393-2476 (Sorrie Sample I.D Project Owner Ready Steversony Roswell 10 State 3 1-121-18 State: NM Zip 88960 35.0 11:25 Service Received By Ward Illa (G)RAB OR (C)OMP Received By: # CONTAINERS GROUNDWATER Sample Condition
Cool Intact
Pos Pres
No D No WASTEWATER OIL SLUDGE Attn-Joe LONCAr P.O. 0: OTHER Phone #: 575-622-36170 ACID/BASE 40 (Initials) ICE / COOL BILL TO OTHER 11 find 18 10:40 11/16/18 11:15 01:61 21911 146/18 10:55 116/18/10:25 Phone Result: Fax Result: REMARKS: TIME tripleton of the applicable Email: Ericgarcia 60 Potrnail.com 1 results × × × TPH 0 Yes XXXXX BTEX Chloride X × XXXXX XXXX DE 88 ANALYSIS REQUEST

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Bound

11:25

Received By:

Phone Result: Fax Result: REMARKS:

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Empil: Ericgarcia 62 Potrnail.com

results

Time:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Name: Sora opssa Phone #:515/63/0131 Address: 4) E Dictens sandos. In no event shall Coud to be be Sampler Name: Enc Gorcio Project Location: (artistac) Company Name: Hepublic Bockhoe Service Project #: H83424 Lab I.D. PAD 3-6-5 PAD 3-6-5 PAD 3-6-9 PAD 3-6-9 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. 10 State #3 Steverson Roswell 3 Fax非 State: NM zio:88260 (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER Fax # 575-622-3643 State: NM Zip. 88202 Attn Coe company: Kapol + Steven P.O. # Phone #. 575-622-5770 815/ XQQ ON: 1218 ACID/BASE ICE / COOL BILL TO OTHER 11 Jan 11:45 Stront II Mulli Millelis OR SAMPLING illula la:ao TIME photos of the applicable XX XX TPH BTEX Chloride XXX XX XX ANALYSIS REQUEST

Page 3 of 2

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

3.50

Sample Condition
Cool Intact
Cool Intact
No C No

CHECKED BY

when the other (1975) 303-2326



September 03, 2019

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

RE: SARAGOSSA 10 ST. #3

Enclosed are the results of analyses for samples received by the laboratory on 08/27/19 11:45.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 9.2 (H902942-01)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	15M mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	72.7	% 41-142)						
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received:

RTFY 8021R

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 9.5 (H902942-02)

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	68.3	% 41-142							
Surrogate: 1-Chlorooctadecane	74.4	% 37.6-14	7						

Analyzed By: MC

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 9.12 (H902942-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	71.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.9	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 10.1 (H902942-04)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	70.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.8	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 10.5 (H902942-05)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	76.4	% 41-142							
Surrogate: 1-Chlorooctadecane	85.1	% 37.6-14	7						

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Analytical Results For:

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

Received:

RTFY 8021R

08/27/2019

Sampling Date:

08/24/2019

Soil

Reported:

09/03/2019

Sampling Type:

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 10.12 (H902942-06)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	69.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	74.3	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type: Soil

Project Name:

SARAGOSSA 10 ST. #3 NONE GIVEN

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

Project Number: Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 11.1 (H902942-07)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	71.0	% 41-142	!						
Surrogate: 1-Chlorooctadecane	81.2	% 37.6-14	7						

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Celey D. Keine

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:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

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

Project Number:

NONE GIVEN

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 11.5 (H902942-08)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	69.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	76.4	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 11.12 (H902942-09)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	63.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	69.0	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 12.1 (H902942-10)

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	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	71.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	77.5	% 37.6-14	7						

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Analytical Results For:

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

Received:

BTEX 8021B

08/27/2019

Sampling Date:

08/24/2019

Soil

Reported:

09/03/2019

Sampling Type:

Project Name:

SARAGOSSA 10 ST. #3

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

Project Number: Project Location:

NONE GIVEN
READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 12.5 (H902942-11)

DIEX COLLE	9/	wa .	Andryzo	u 2,1110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	64.5	% 41-142	!						

Analyzed By: MS

Surrogate: 1-Chlorooctadecane 69.1 % 37.6-147

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Celeg D. Freene



Analytical Results For:

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

Received:

RTFY 8021R

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 12.12 (H902942-12)

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.55	77.6	2.00	1.86	
Toluene*	<0.050	0.050	08/29/2019	ND	1.77	88.4	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.83	91.3	2.00	1.32	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.60	93.3	6.00	1.59	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	72.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	78.7	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 13.1 (H902942-13)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.0	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/28/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	70.9 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	77.6	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 13.5 (H902942-14)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.6 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	144	16.0	08/29/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	72.9 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.19	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type: Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 13.12 (H902942-15)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 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	288	16.0	08/29/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	71.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	80.2	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 14.1 (H902942-16)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.3	% 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	48.0	16.0	08/29/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	187	93.5	200	1.31	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	192	95.8	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	68.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	73.9	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 14.5 (H902942-17)

BTEX 8021B	mg	/kg	Analyze	ed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/29/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	216	108	200	1.12	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	218	109	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					
Surrogate: 1-Chlorooctane	119	% 41-142	,						
Surrogate: 1-Chlorooctadecane	126	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 14.12 (H902942-18)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.9 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	112	16.0	08/29/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	216	108	200	1.12	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	218	109	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					
Surrogate: 1-Chlorooctane	113 %	6 41-142	!						
Surrogate: 1-Chlorooctadecane	118 %	6 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 15.1 (H902942-19)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2019	ND	1.97	98.3	2.00	0.922	
Toluene*	<0.050	0.050	08/31/2019	ND	1.97	98.5	2.00	2.06	
Ethylbenzene*	<0.050	0.050	08/31/2019	ND	1.98	99.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/31/2019	ND	5.91	98.6	6.00	3.00	
Total BTEX	<0.300	0.300	08/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.6	% 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	544	16.0	08/29/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	1.12	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	218	109	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	122 %	% 41-142	?						
Surrogate: 1-Chlorooctadecane	128 %	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 15.5 (H902942-20)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.62	81.1	2.00	1.90	
Toluene*	<0.050	0.050	08/29/2019	ND	1.81	90.5	2.00	0.851	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.7	2.00	0.544	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.90	98.3	6.00	0.679	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 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	08/29/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	1.12	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	218	109	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	122 %	% 41-142	?						
Surrogate: 1-Chlorooctadecane	128 %	% 37.6-14	7						

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Analytical Results For:

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

Received:

RTFY 8021R

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 15.12 (H902942-21)

lue QC RPD Qualifier 00 1.90 00 0.851 00 0.544 00 0.679
00 0.851 00 0.544
00 0.544
0.679
lue QC RPD Qualifier
0.00
lue QC RPD Qualifier
0 1.12
0 2.28
)

Applyzod By: BE

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Analytical Results For:

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

Received:

RTFY 8021R

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Project Name:

SARAGOSSA 10 ST. #3

Sampling Condition:

Soil Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 16.1 (H902942-22)

B1EX 8021B	mg,	/ kg	Anaiyze	ea By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.62	81.1	2.00	1.90	
Toluene*	<0.050	0.050	08/29/2019	ND	1.81	90.5	2.00	0.851	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.7	2.00	0.544	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.90	98.3	6.00	0.679	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (Pa	ID 89.3	% 73.3-12	?9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/29/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2019	ND	216	108	200	1.12	
DRO >C10-C28*	<10.0	10.0	08/31/2019	ND	218	109	200	2.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	2						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	17						
Surrogate: 1-Chlorooctane	102 :	% 41-142	2	ND					

Applyzod By: BE

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Analytical Results For:

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

Received:

BTEX 8021B

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Soil

Project Name:

SARAGOSSA 10 ST. #3

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

Project Number:

NONE GIVEN

Project Location: READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 16.5 (H902942-23)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2019	ND	1.62	81.1	2.00	1.90	
Toluene*	< 0.050	0.050	08/29/2019	ND	1.81	90.5	2.00	0.851	
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.7	2.00	0.544	
Total Xylenes*	<0.150	0.150	08/29/2019	ND	5.90	98.3	6.00	0.679	
Total BTEX	<0.300	0.300	08/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.8	% 73.3-12	9						
		_	_						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,			<u> </u>		BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 08/29/2019	Method Blank		•	-		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 08/29/2019	Method Blank		•	-		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 144 mg/	Reporting Limit 16.0	Analyzed 08/29/2019 Analyze	Method Blank ND d By: CK	416	104	400	0.00	
Analyte Chloride TPH 8015M Analyte	Result 144 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed 08/29/2019 Analyzed Analyzed	Method Blank ND d By: CK Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	

Analyzed By: BF

Surrogate: 1-Chlorooctane

119 %

41-142

Surrogate: 1-Chlorooctadecane

124 %

37.6-147

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Celey D. Keene

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:

RTFY 8021R

08/27/2019

Sampling Date:

08/24/2019

Reported:

09/03/2019

Sampling Type:

Project Name:

SARAGOSSA 10 ST. #3

Soil Sampling Condition: Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

READ & STEVENS- CARLSBAD NM

Sample ID: PAD 3 - 16.12 (H902942-24)

Result < 0.050	Reporting Limit 0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050							•
-0.050		08/29/2019	ND	1.62	81.1	2.00	1.90	
<0.050	0.050	08/29/2019	ND	1.81	90.5	2.00	0.851	
<0.050	0.050	08/29/2019	ND	1.97	98.7	2.00	0.544	
<0.150	0.150	08/29/2019	ND	5.90	98.3	6.00	0.679	
<0.300	0.300	08/29/2019	ND					
91.3 %	6 73.3-129	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1410	16.0	08/29/2019	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/31/2019	ND	216	108	200	1.12	
<10.0	10.0	08/31/2019	ND	218	109	200	2.28	
<10.0	10.0	08/31/2019	ND					
116 %	6 41-142							
	1410 mg/l Result <10.0 <10.0	1410 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	1410 16.0 08/29/2019 mg/kg Analyze Result Reporting Limit Analyzed <10.0	1410 16.0 08/29/2019 ND mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank <10.0	1410 16.0 08/29/2019 ND 416 mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS <10.0	1410 16.0 08/29/2019 ND 416 104 mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	1410 16.0 08/29/2019 ND 416 104 400 mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	1410 16.0 08/29/2019 ND 416 104 400 0.00 mg/kg Analyzed By: CK Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Applyzod By: BE

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST_

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

Company Maine.	Republic Backhoe Service		01.178		AMAIN		
Project Manager: Eric Garcia	Eric Garcia	The second secon	P.O. #:		CION LINE	O VEROES!	
Address:	47 E. Dickens Rd.		Company: Read & Stevens	Sylan			
City: Lov	Lovington State: NM	Zip: 88260	Attn: Joe Tovar				
Phone #: 575-	575-631-0131 Fax #:			813	Transaction of the state of the		
Project #:	Project Owner	Project Owner: Read & Stevenscity: Ro Two 11	City: Ro Cu/o 1	-		,	
Project Name:	ossa	e#3	State: NM Zip: 88202	3			(
Project Location: Eddy	Eddy County		Phone #: 575 - 390-7425	2425			
Sampler Name:	3		Fay #	3			,
FOR LAB LISE ONLY	L	L	1				
CONTAB DRE ONLY		P. MATRIX	PRESERV. SAMPLING		9 1		
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1902942		# COI GROU WAST SOIL OIL SLUD	OTHE DATE	B	Cr	\	
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-	TADO-7.5		8/24/19 8	8:20			
FU	PHD3-4-12		8/24/19 9:00	900			Value of the Control
	PA 10 A - 10 - A	The second secon	8/24/19 9	9.20	-	1	
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_	N		1/2/1910:30	.30			
8.	DAD 3 - 11.5		1 2/24/19 11	1.00	The same of the sa	and a state of the	
	PAD3-11-12		0/24/19	1:30			
0	3-12		1/20/14	Ū			
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ervice. In no event shall Card littates or successors arising	ervice. In no event shall Cardinal be sable for incidental or consequental demages, including without limitation, bushessimismupiones, box of use, or loss of profits incurred by cleant, its subsidiaries, life and the same state of the resistance arising out of or related to the porformance of services haveurider by Cardinal, regardless of Welfley such other when a reverties are the resistance are referred.	vithout limitation, business interruptions, los dinet, repardiess of whether such claim is t	learning and received by Cardinal William 30 days after comfertuptions, loss of use, or loss of profits incurred by Glent, such claim is hasted incomenced the other metals.	plotion of the applicable its subsidiaries,			
veilinduistien BY:	Date 77/19	Received By:	-	ılt: ☐ Yes	No		
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† Cardinal ca	Cardinal cannot accept verbal changes. Please fax written changes to (575) 399-2326	ax written changes to (5)	75) 393-2326				
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST_

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

Company Name:	Republic Backhoe Service		BILL TO		ANALYSIS	IS REQUEST	
Project Manager: Eric Garcia	Eric Garcia	P.	P.O. #:		-		_
Address:	47 E. Dickens Rd.	Ω	company: Read & Stevens	vens	1		
City: Lov	Lovington State: NM	Zip: 88260 A	Attn: Joe Tovar				
Phone #: 575-	575-631-0131 Fax #:	A	Address: PO Box 15	818	The second of th		
Project #:	Project Owner:	Project Owner: Read & Stevens City: Roswell		_			
Project Name:	Project Name: Saragossa 10 State	2 #3 s	State: NM Zip: 88202	8			_
Project Location: Edd	County			2425			
Sampler Name:	Eric (savcia	F	Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		le		
		RS			rid		
Lab I.D.	Sample I.D.	PRAB OR (ICONTAINE ROUNDWA ASTEWATE DIL L UDGE THER:	ID/BASE: E / COOL HER :	TPH BTE	Chlor		
=	PAD3 -12.5	×	X 8/24/19				_
17	PAD3-12.12		_	50			
13	PAD3 -13 · 1		8/24/19 2	:30			
	PAD3-13.5		8/24/193	3:00			
15	PAD3-13-12		8/24/193	3:30	The same of the sa		
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PLEASE NOTE: L'ablity an analyses. Al daims includin	PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be finised to the amount plad by the client file analyses. At claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in within 30 days after completion of the applicable	y claim arising whether based in contract or to emed waived unless made in writing and rece	ort, shall be fimiled to the amount paid by I wived by Cardinal within 30 days after com-	the dient for the ripletion of the applicable			L
afiliales or successors arisi	out of or related to the performance of sarvices hereunder by Ca	rdinal, regardless of whether such dain is based upon any of the above stated	ised upon any of the above stated reasons	1			
Relinquished By	Date: /27/19	Received By:	Ph Fa	Phone Result: Yes	□ No Add'I Phone #:	b#:	
Relinquished By:	Time :45	Repeived By:	MOON RE			The property of the control of the c	
	+.4/conrection	98				*	
Delivered By:	Delivered By: (Circle One) 410 -270	,	CHECKED BY:			1.	
Sampler - UPS	Sampler - UPS - Bus - Other:	TYPES TYPES	A				

Relinquished By:

Received By:

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST_

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

	-	Reserved By:	Relinquished By: Date:	Rel
Yes	REMARKS:	The March	27 'sabil	<u></u>
Yes 🗆 No	ult:	Received By:	Date	Re
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	unt paid by the client for the applicable	y casin arising wisstar based in contract of fort, shall be knilled to the another berned waived unless made in witting and received by Cardinal within 30 day	PLEASE, WHELL Leading and Leanages, Ceroma's leading and dean's exclusive tensory for any deam asten y impose despot content or for, shall be entred to the amount pad of the death of the applicable analysis. At claims including those for negligence and any other cause whatsoever shall be deemed welved unless made in witting and received by Cardinal within 20 days after completion of the applicable	analys
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hla	PH	GGE ER:	Lab I.D. Sample I.D.	
-X	1	ATER	W.	
sl e	SAMPLING	MATRIX PRESERV	FOR LAB USE ONLY	FOR
		Fax #:	Sampler Name: Eric (>AVCIA	San
	590-2425	Phone #: 575-390-2425	Project Location: Eddy County	Pro
	88202	#3 State: NM Zip: 88202	Project Name: Saragossa 10 State #3	Pro
		Stevens	Project #: Project Owner:	Pro
The second secon	× 1518	Address: PD Box	Phone #: 575-631-0131 Fax #:	Pho
	722	Zip: 88260 Attn: Joe Tovzer	City: Lovington State: NM	City
	Stevens	company: Read & Stevens	Address: 47 E. Dickens Rd.	Add
		P.O. #:	Project Manager: Eric Garcia	Pro
ANALYSIS REQUEST	0	BILL TO	Company Name: Republic Backhoe Service	Con

Cool Intact
Pyes Tyes
No No Sample Condition **Photos**











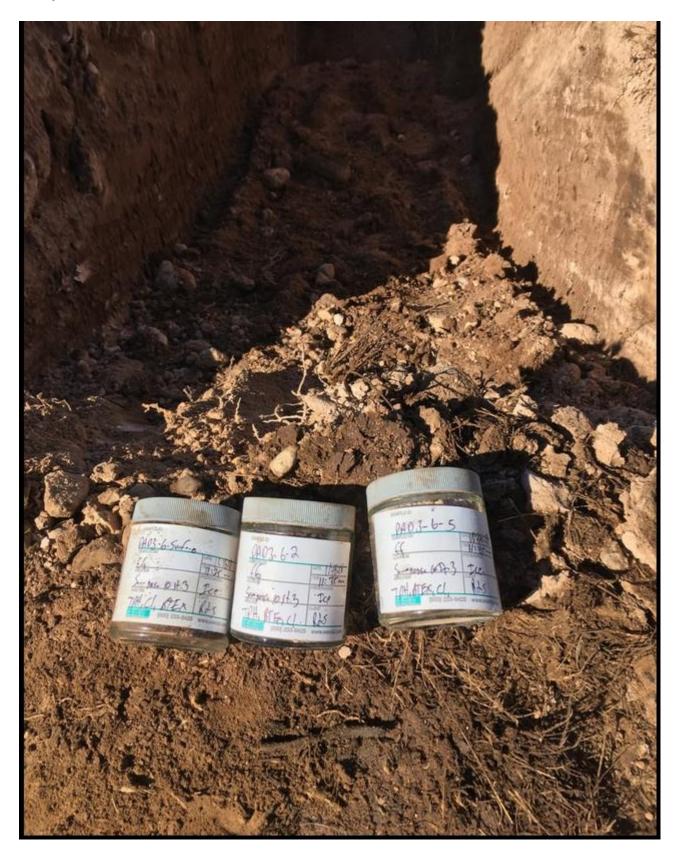




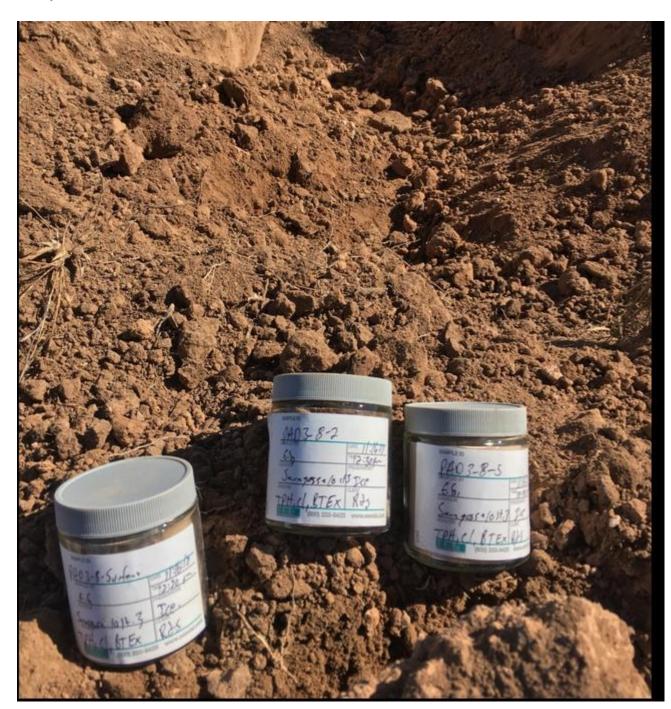


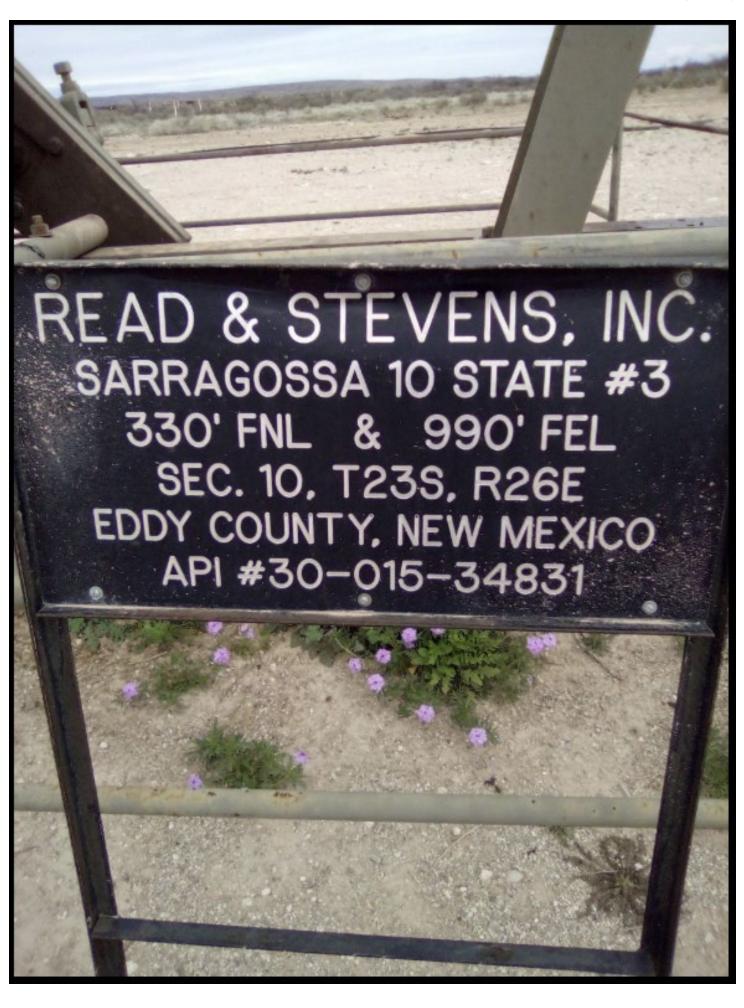


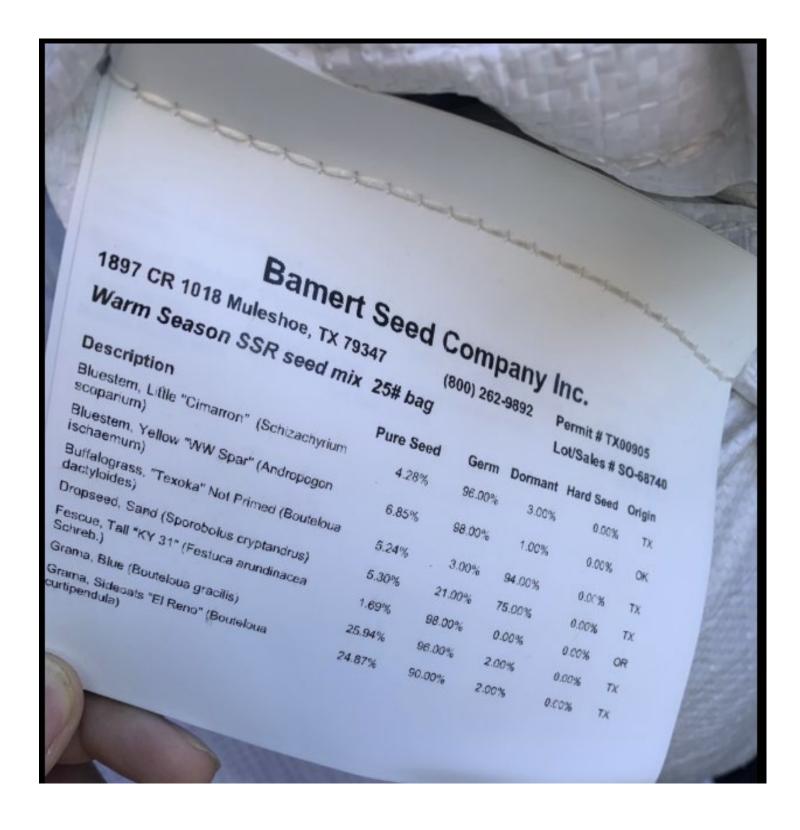






















Excavation Logs

Site Name: <u>Savagossa</u> 10 State #3

Date: 11/14/18

Soil Profile

Description	ft. bgs		
Top Soil	ĵ	1	
•		2	t.
Top Soil / Caliche Mix		3	
Top Soil / Caliche Mix Caliche		4	
		5	·
,	·	6	
		7	
		8	
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		10	
·		. 11	
		12	. •
		13	
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32.325857 -104.275615 Caclada

Site Name: Saragossa Date: 08/24/19 10 State #3

Soil Profile

Description	ft. bgs
Top Soil	1
•	2
Top Soil / Caliche Mix	3
Top Soil/Caliche Mix Caliche	4
	5
	б
	7
	8
	9
	10
· · · · · · · · · · · · · · · · · · ·	. 11
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