

From: Mann, Ryan
To: [Bratcher, Mike, EMNRD](#); [eric garcia](#)
Cc: [Kelly Barajas](#); [Matthew B. Murphy \(conquestenergy@gmail.com\)](#)
Subject: RE: 2RP-4709 Bandit State #4 Battery
Date: Monday, May 14, 2018 9:34:36 AM

Good morning Eric,

The proposed seed mix for this project is not approved by NMSLO. The listed mix contains non-natives, which are currently against NMSLO reveg policy. The Kleingrass and fescue will need to be removed, if possible. If not a different seed mix will need to be used to the revegetation that contains only native plants. Let me know if you have any questions. Please include NMSLO in all further communications regarding this release.

Ryan Mann
Remediation Specialist
Field Operation Division
(575) 392-3697
(505) 699-1989
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Friday, May 11, 2018 10:38 AM
To: eric garcia <ericgarcia62@hotmail.com>
Cc: Kelly Barajas <KBarajas@read-stevens.com>; Matthew B. Murphy (conquestenergy@gmail.com) <conquestenergy@gmail.com>; Mann, Ryan <rmann@slo.state.nm.us>
Subject: RE: 2RP-4709 Bandit State #4 Battery

RE: Read & Stevens Inc. * Bandit St 4 * **2RP-4709** * DOR: 4/1/18

Eric,

Your proposal for remediation of the above referenced release is approved with the following:

- Remedial goal for chloride impact in the upper 4' interval is 600 mg/kg
- Sample point N4 area will require deeper excavation than proposed.
- On the proposal, paragraph titled "Sample Point N2", it is OCD's understanding that the first sentence should read: The Sample Point N area....
- Notify the District 2 office once remedial activities have been scheduled.

If you have any questions or concerns, please contact me.

Thank you,

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: eric garcia
Sent: Thursday, May 10, 2018 8:20 AM
To: Bratcher, Mike, EMNRD
Subject: 2RP-4709 Bandit State #4 Battery

Mr. Bratcher

The following attachment contains the Site Characteristic/Proposal for Read and Stevens, Inc. Bandit State #4 Battery. If you have any question please call or email me.

Thank you,

Eric Garcia
President
Republic Backhoe Service LLC
47 E Dickens RD
Lovington, NM 88260
Cell: 575-631-0131
Email: Ericgarcia62@hotmail.com

This email has been scanned by the Symantec Email Security.cloud service.
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For more information please visit <http://www.symanteccloud.com>

Bratcher, Mike, EMNRD

From: eric garcia <ericgarcia62@hotmail.com>
Sent: Monday, May 14, 2018 1:00 PM
To: Bratcher, Mike, EMNRD
Subject: Re: 2RP-4709 Bandit State #4 Battery

Thank you for your reply. We will start remedial activities at the Bandit State #4 Battery on Wednesday May, 16, 2018.

Eric Garcia
President
Republic Backhoe Service LLC
47 E Dickens RD
Lovington, NM 88260
Cell: 575-631-0131
Email: Ericgarcia62@hotmail.com

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Friday, May 11, 2018 10:38 AM
To: eric garcia
Cc: Kelly Barajas; Matthew B. Murphy (conquestenergy@gmail.com); Mann, Ryan
Subject: RE: 2RP-4709 Bandit State #4 Battery

RE: Read & Stevens Inc. * Bandit St 4 * **2RP-4709** * DOR: 4/1/18

Eric,

Your proposal for remediation of the above referenced release is approved with the following:

- Remedial goal for chloride impact in the upper 4' interval is 600 mg/kg
- Sample point N4 area will require deeper excavation than proposed.
- On the proposal, paragraph titled "Sample Point N2", it is OCD's understanding that the first sentence should read: The Sample Point N area....
- Notify the District 2 office once remedial activities have been scheduled.

If you have any questions or concerns, please contact me.

Thank you,

Mike Bratcher
NMOCD District 2
811 South First Street

Artesia, NM 88210
575-748-1283 Ext 108

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From: eric garcia <ericgarcia62@hotmail.com>
Sent: Thursday, May 10, 2018 8:20 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: 2RP-4709 Bandit State #4 Battery

Mr. Bratcher

The following attachment contains the Site Characteristic/Proposal for Read and Stevens, Inc. Bandit State #4 Battery. If you have any question please call or email me.

Thank you,

Eric Garcia
President
Republic Backhoe Service LLC
47 E Dickens RD
Lovington, NM 88260
Cell: 575-631-0131
Email: Ericgarcia62@hotmail.com

Bratcher, Mike, EMNRD

From: eric garcia <ericgarcia62@hotmail.com>
Sent: Wednesday, May 23, 2018 10:28 AM
To: Bratcher, Mike, EMNRD
Subject: 2RP-4709 Bandit State #4 Battery

Good Morning,

We will be collecting samples at the Bandit State #4 Battery on Friday May 25, 2018 at 11:00 A.M. The samples will be collected from the walls and the bottom of the excavated area.

Thanks,

Eric Garcia

President

Republic Backhoe Service LLC

47 E. Dickens RD

Lovington, NM 88260

Cell: 575-631-0131

Email: ericgarcia62@hotmail.com

Bratcher, Mike, EMNRD

From: eric garcia <ericgarcia62@hotmail.com>
Sent: Thursday, June 14, 2018 8:59 AM
To: Bratcher, Mike, EMNRD
Subject: Read & Stevens Bandit State #4 Battery

Good Morning Mike,

Just wanted to let you know we will be collecting samples at the Read and Stevens 2RP-4709 Bandit State #4 Battery at 10 a.m tomorrow. Thank you!

Eric Garcia

President

Republic Backhoe Service LLC

47 E. Dickens RD

Lovington, NM 88260

Cell: 575-631-0131

Email: ericgarcia62@hotmail.com

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	2RP-4709
District RP	2
Facility ID	Bandit State #4 Tank Battery
Application ID	NAB1810850717

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: Kelly BarajasTitle: Production & RegulatorySignature: *K Barajas*Date: 5/2/2019email: kbarajas@read-stevens.comTelephone: 575-624-3760**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: _____

REPUBLIC BACKHOE SERVICE, LLC

Mike Bratcher
NMOCD District II
811 S. First St.
Artesia, NM 88210

05/01/2018

Dear Mr. Bratcher,

Subject: Spill Summary and Remediation Work Plan
Read & Stevens, Inc.
Bandit State #4 Battery
NMOCD Remediation Case #2RP-4709

Read & Stevens, Inc. has contracted Republic Backhoe Service, LLC (Republic) to perform a site assessment and remediation services at the above referenced location. The results of the spill summary and proposed remediation activities consist of the following.

Incident Date

April 17, 2018

Incident Description

On April 17, 2018 the pumper observed produced water on the Bandit State #4 Battery pad. The pumper manually turned off and shut in the Bandit State #4 well. The cause of the problem was a corroded produced water line for the heaters at the Bandit State #4 Battery. A C-141 form was filled out and emailed to NMOCD District II on April 18, 2018 (See Attachment I). According to the C-141, the release was approximately 50 barrels of produced water and a vacuum truck recovered 48 barrels of produced water.

A crew was called out to the location and replaced the corroded produced water line. The size of the impacted area is approximately 8,700 square feet (See Attachment II).

Background Information

The Bandit State #4 Battery is located approximately eight (8) miles southwest of Carlsbad, New Mexico (See Attachment III). The Bandit State #4 Battery is located on the southwest corner of the Bandit State #002 well pad and is .62 of a mile south of the Bandit State #4 Well (See Attachment IV). The legal location for the Bandit State #4 Battery is Unit L Section 10 Township 23 South and Range 26 East in Eddy County, New Mexico and GPS Coordinates: 32.316845N, -104.287684W.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events. According to the New Mexico Office of the State Engineer's (OSE) Water Rights and Points of Diversion databases, there are 4 water wells within a 2,000 meter (See Attachment V). Water wells C-02264, C-02382, and C-2393 are located 5,871 feet north east of the location. Water well C-01140 is located 6,628 feet south of the location. Additional well search found C-02522 which is located 6,600 feet away, and C-00731 which is located 4,910 feet away from the Bandit State #4 Battery (See Attachment VI).

Regulatory Requirements

New Mexico Oil Conservation Division evaluates each release of produced water or oil according to the Recommended Remediation Action Levels (RRAL). NMOCD uses RRALs as a ranking system when evaluating each spill in terms of Depth to Groundwater, Distance to Surface Water, and Distance to Wellhead Protection Area.

The ranking score for this site is **0** based on the following:

Depth to ground water: 246' **0**

Wellhead Protection Area: > 1000' **0**

Distance to Surface Water Body: > 1000' **0**

	<u>Total Ranking Score</u>		
	<u>>19</u>	<u>10 - 19</u>	<u>0 - 9</u>
<u>Benzene (ppm) *</u>	10	10	10
<u>BTEX (ppm) *</u>	50	50	50
<u>TPH (ppm) **</u>	100	1000	5000

Actions Taken

04/17/2018

Vacuum truck removed 48 barrels of produced water from the well pad area. A crew replaced the corroded line at the heaters. It was decided to excavate the saturated areas to prevent further contamination and to allow access onto the location. Backhoe excavated and loaded saturated soil onto the trucks. Trucks hauled 70 yards of contaminated soil to R360 (NMOCD approved site) Ticket #700-885910, 700-885955, 700-886026, 700-886050, 700-885983.

4/18/2018

Backhoe continued to excavate and load trucks with saturated material. Trucks hauled 40 yards of contaminated soil to R360 Ticket #700-886413, 700-886240, and 20 yards to Lea Land Inc. (NMOCD approved site) Ticket #122690.

4/19/2018

Built a firewall around the battery.

4/24/2018

Began to delineate the spill at the location. Backhoe was used to dig six trenches at six different pooling areas at the spill site. All soil samples were collected by Republic Backhoe Service, LLC personnel while wearing clean nitrile gloves and placed the samples into laboratory provided sample containers. The samples were then preserved on ice and transported to Cardinal Labs in Hobbs, NM. Collected the following samples: (Heater area) H-S, H-2, H-4, H-6, H-8, H-10, N1-S, N1-2, N1-4, N1-6, N2-S, N2-2, N2-4, N2-6, N3-S, N3-2, N3-4, N3-5, N3-6, N4-S, N4-2, N4-4, N4-6, N5-S, N5-2, N5-4, and N5-6 (See Attachment VII).

4/27/2018

Laboratory results (reported on 4/26/2018) indicated the following: Vertical extent was not found at Sample Points N1, N4, and N5. Also, Sample ID N5-6 (4/24/2018) needed to be retested, because of possible cross contamination. On 4/27/2018 continued to delineate the spill at the location. Backhoe was used to dig trenches at samples points N1, N4, and N5. At sample point N1: used a soil core sampler to collect undisturbed soil core samples at the following depths 8', 10', 12', 14', and 16'. At sample point N4: used a soil core sampler to collect undisturbed soil core samples at the following depths of 8', 10', 12', 14', 16'. At sample point N5: used a soil core sampler to collect undisturbed soil core samples at the following depths 6', 8', 10', 12', 14, and 16'. A retest of sample ID N5-6 was collected on 4/27/2018 with a soil core sampler to prevent sample contamination. All soil samples were collected by Republic Backhoe Service, LLC personnel while wearing clean nitrile gloves and placed the samples into laboratory provided sample containers. The samples were then preserved on ice and transported to Cardinal Labs in Hobbs, NM. Collected the

following samples: N1-8, N1-10, N1-12, N1-14, N1-16, N4-8, N4-10, N4-12, N4-14, N4-16, N5-6, N5-8, N5-10, N5-12, N5-14, and N5-16 (See Table below for Results).

Laboratory Results

See Attachment VII for Site Sample Points

Sample Date	Date Analyzed	Sample ID	Depth (feet)	Chlorides (mg/kg)	TPH (mg/kg)	BTEX (mg/kg)
4/24/2018	4/25/2018	H-S	.25	26000	1622	<0.300
4/24/2018	4/25/2018	H-2	2	112	<10.0	<0.300
4/24/2018	4/25/2018	H-4	4	176	<10.0	<0.300
4/24/2018	4/25/2018	H-6	6	304	<10.0	<0.300
4/24/2018	4/25/2018	H-8	8	400	<10.0	<0.300
4/24/2018	4/25/2018	H-10	10	288	<10.0	<0.300
4/24/2018	4/25/2018	N1-S	.25	28800	20.8	<0.300
4/24/2018	4/25/2018	N1-2	2	2320	<10.0	<0.300
4/24/2018	4/25/2018	N1-4	4	2320	<10.0	<0.300
4/24/2018	4/25/2018	N1-6	6	960	<10.0	<0.300
4/27/2018	5/03/2018	N1-8	8	480	<10.0	<0.300
4/27/2018	5/03/2018	N1-10	10	240	<10.0	<0.300
4/27/2018	5/03/2018	N1-12	12	288	<10.0	<0.300
4/27/2018	5/03/2018	N1-14	14	336	<10.0	<0.300
4/27/2018	5/03/2018	N1-16	16	208	<10.0	<0.300

Sample Date	Date Analyzed	Sample ID	Depth (feet)	Chlorides (mg/kg)	TPH (mg/kg)	BTEX (mg/kg)
4/24/2018	4/25/2018	N2-S	.25	38000	<10.0	<0.300
4/24/2018	4/25/2018	N2-2	2	80.0	<10.0	<0.300
4/24/2018	4/25/2018	N2-4	4	32.0	<10.0	<0.300
4/24/2018	4/25/2018	N2-6	6	48.0	<10.0	<0.300
4/24/2018	4/25/2018	N3-S	.25	25200	<10.0	<0.300
4/24/2018	4/25/2018	N3-2	2	48.0	<10.0	<0.300
4/24/2018	4/25/2018	N3-4	4	176	<10.0	<0.300
4/24/2018	4/25/2018	N3-6	6	288	<10.0	<0.300
4/24/2018	4/25/2018	N4-S	.25	68000	26.8	<0.300
4/24/2018	4/25/2018	N4-2	2	704	<10.0	<0.300
4/24/2018	4/25/2018	N4-4	4	848	<10.0	<0.300
4/24/2018	4/25/2018	N4-6	6	576	<10.0	<0.300
4/27/2018	5/03/2018	N4-8	8	176	<10.0	<0.300
4/27/2018	5/03/2018	N4-10	10	176	<10.0	<0.300
4/27/2018	5/03/2018	N4-12	12	80	<10.0	<0.300
4/27/2018	5/03/2018	N4-14	14	304	<10.0	<0.300
4/27/2018	5/03/2018	N4-16	16	144	<10.0	<0.300
4/24/2018	4/25/2018	N5-S	.25	22800	<10.0	<0.300
4/24/2018	4/24/2018	N5-2	2	1200	<10.0	<0.300

Sample Date	Date Analyzed	Sample ID	Depth (feet)	Chlorides (mg/kg)	TPH (mg/kg)	BTEX (mg/kg)
4/24/2018	4/25/2018	N5-4	4	128	<10.0	<0.300
4/24/2018	4/25/2018	N5-6	6	2000	<10.0	<0.300
4/27/2018/	5/03/2018	N5-6 Retest	6	80	<10.0	<0.300
4/27/2018	5/03/2018	N5-8	8	48	<10.0	<0.300
4/27/2018	5/03/2018	N5-10	10	16	<10.0	<0.300
4/27/2018	5/03/2018	N5-12	12	16		
4/27/2018	5/03/2018	N5-14	14	64		
4/27/2018	5/03/2018	N5-16	16	64		

Proposal

The release poses little threat to groundwater contamination in the area. The depth to ground water in the area is greater than 240'. The immediate actions of the vacuum truck and the backhoe helped limit the vertical extent of the contamination. According to the soil sampling that was conducted at the site: BTEX and TPH contamination was limited to 4" bgs, and chloride contamination was limited to a range between 1' to 4' bgs. We respectfully ask for the following:

Excavation

Sample Point H.

The Sample Point H area will be excavated to a depth of 1' bgs. Then field samples will be taken at 1' bgs. Also, field samples will be taken from the walls to ensure horizontal delineation is reached. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation if the field test results are below the NMOCD permissible chloride levels of 600 mg/kg. (Will only test for Chlorides as previous soil sampling concluded no BTEX/TPH contamination below 4"). Will seed the area outside of the location pad with Warm Season seed mixture.

Sample Point N1.

The sample Point N1 area will be excavated to a depth of 4' bgs. The area measures approximately 20' X 20'. Then field samples will be taken at 4' bgs. Also, field samples will be taken from the walls to ensure horizontal delineation is reached. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation. The area will be back filled with caliche if bottom hole sample results are below the permissible chloride levels of 600 mg/kg. (Will only test for Chlorides as previous soil sampling concluded no BTEX/TPH contamination below 4").

Sample Point N2.

The Sample Point H area will be excavated to a depth of 1' bgs. Then field samples will be taken at 1' bgs. Also, field samples will be taken from the walls to ensure horizontal delineation is reached. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation. The area will be back filled with caliche, if the field test results are below the NMOCD permissible chloride levels of 600 mg/kg. (Will only test for Chlorides as previous soil sampling concluded no BTEX/TPH contamination below 4").

Sample Point N3.

The Sample Point N3 area will be excavated to a depth of 1' bgs. Then field samples will be taken at 1' bgs. Also, field samples will be taken from the walls to ensure horizontal delineation is reached. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation. The area will be back filled with caliche if the bottom hole/wall sample results are below the NMOCD permissible chloride levels of 600 mg/kg. (Will only test for Chlorides as previous soil sampling concluded no BTEX/TPH contamination below 4").

Sample Point N4.

The sample Point N4 area will be excavated to a depth of 2' bgs. The area measures approximately 192 square feet. Then field samples will be taken at 2' bgs. Also, field samples will be taken from the walls to ensure horizontal delineation is reached. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation. The area will be back filled with caliche, if bottom hole/wall sample results are below the NMOCD permissible chloride levels of 600 mg/kg. (Will only test for Chlorides as previous soil sampling concluded no BTEX/TPH contamination below 4").

Sample Point N5.

The sample Point N5 area will be excavated to a depth of 2' bgs. The area measures approximately 1,095 square feet. Then field samples will be taken at 2' bgs. Also, field samples will be taken from the walls to ensure horizontal delineation is reached. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation. The area will be back filled with top soil if bottom hole/wall sample results are below the NMOCD permissible chloride levels of 600 mg/kg. (Will only test for Chlorides as previous soil sampling concluded no BTEX/TPH contamination below 4"). Finally will seed the area outside of the location pad with Warm Season seed mixture.

NMOCD will be notified within 24 hours of all sampling.

The excavated material will be loaded onto belly dumps and hauled to R360 a NMOCD approved disposal

Revegetation and Noxious Weed Management Plans

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

Seeding Rate/acre: 20 lbs/acre

Timing of Dispersal: May 2018

Method of Dispersal: First, the area will be disc. Second, the seed will be mechanically broadcasted. Third, will run the disc over the area to cover the seed. Finally, to best ensure seed germination success the area will be watered after seeding. Photos will be taken of the seed mixture bags, and of all seeding activities.

Follow up Monitoring Plan: We intend to monitor the area in late summer (before the fall season). We will evaluate the growth of the area to determine if reseeding will be necessary the following spring. We will also monitor for the area for noxious weeds. The area is small enough to rid the weeds mechanically.

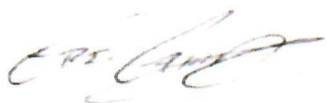
Noxious Weeds Control

Republic Backhoe Service LLC takes noxious weed control very serious. All equipment and trucks are inspected before entering the pasture area. For examples truck tires are inspected for seeds between the thread of the tires, and equipment (disc harrow and backhoe) is cleaned off before entering the site. The area will be monitored for the following noxious weeds (but not limited to):

-Jointed Goat grass, Hoary Cress, Cheat Grass, African Rue, Yellow Starthistle, Malta, Starthistle, Purple Starthistle, Common Teasel, Camelthorn, and Russian Knapweed.

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

Thank you,



Eric Garcia

Republic Backhoe Service, LLC.

Attachment I
C-141

NM OIL CONSERVATION
ARTESIO DISTRICT

APR 18 2018

Form C-141
Revised April 3, 2017

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

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

Release Notification and Corrective Action

081810850212

Name of Company		Read & Stevens, Inc. <i>18917</i>	Contact	Matt Murphy, Operations Manager
Address		PO Box 1518, Roswell, NM 88202	Telephone No.	575-622-3770
Facility Name		Bandit State #4	Facility Type	Bandit State #4 Tank Battery
Surface Owner	State	Mineral Owner	State	API No. 30-015-32553

OPERATOR☒ Initial Report ☐ Final Report**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	23S	26E	330'	North	330'	West	Eddy
Latitude		Longitude		NAD83				

NATURE OF RELEASE

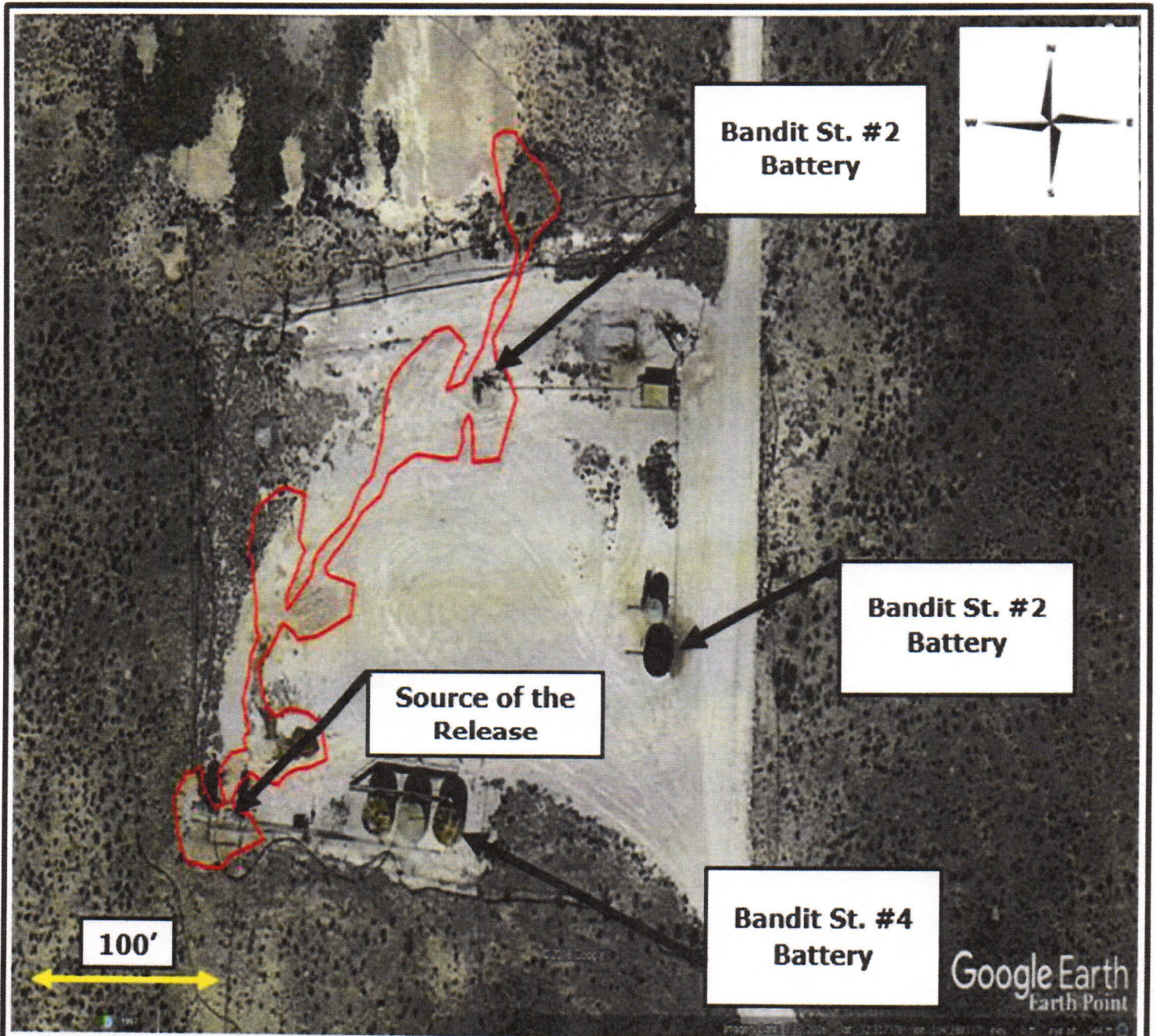
Type of Release	Produced H2O	Volume of Release	+/- 50 bbls	Volume Recovered	+/- 48 bbls
Source of Release	Leaking nipple on heater treater	Date and Hour of Occurrence	7 am	Date and Hour of Discovery	7 am
Was Immediate Notice Given?	☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	4/17/2018	Amalia Bustamante	4/17/2018
By Whom?	Kelly Barajas	Not until the next morning	Date and Hour	4/18/2018 at 8:15 am	
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse	N/A		
If a Watercourse was impacted, Describe Fully *					
N/A					
Describe Cause of Problem and Remedial Action Taken *					
The nipple on the heater treater was leaking and approximately 50 bbls of produced H2O was spilled onto location. Repairs have been made.					
Describe Area Affected and Cleanup Action Taken *					
The spill was contained on the location and cleanup of the fluid was expedited in order to minimize possible future environmental impact. The contaminated soil (caliche) is being hauled to an approved disposal facility and the soil will be replaced with fresh caliche as required. New berms will be constructed around the location.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					

OIL CONSERVATION DIVISION

Signature	<i>[Signature]</i>		
Printed Name	Kelly Barajas	Approved by Environmental Specialist	<i>[Signature]</i>
Title	Production/Regulatory	Approval Date	4/18/18
E-mail Address	kbarajas@read-stevens.com	Expiration Date	N/A
Date	4/18/2018	Conditions of Approval	See attached
Phone	575-624-3760	Attached	APP 47009

* Attach Additional Sheets If Necessary

Attachment II
Spill Map

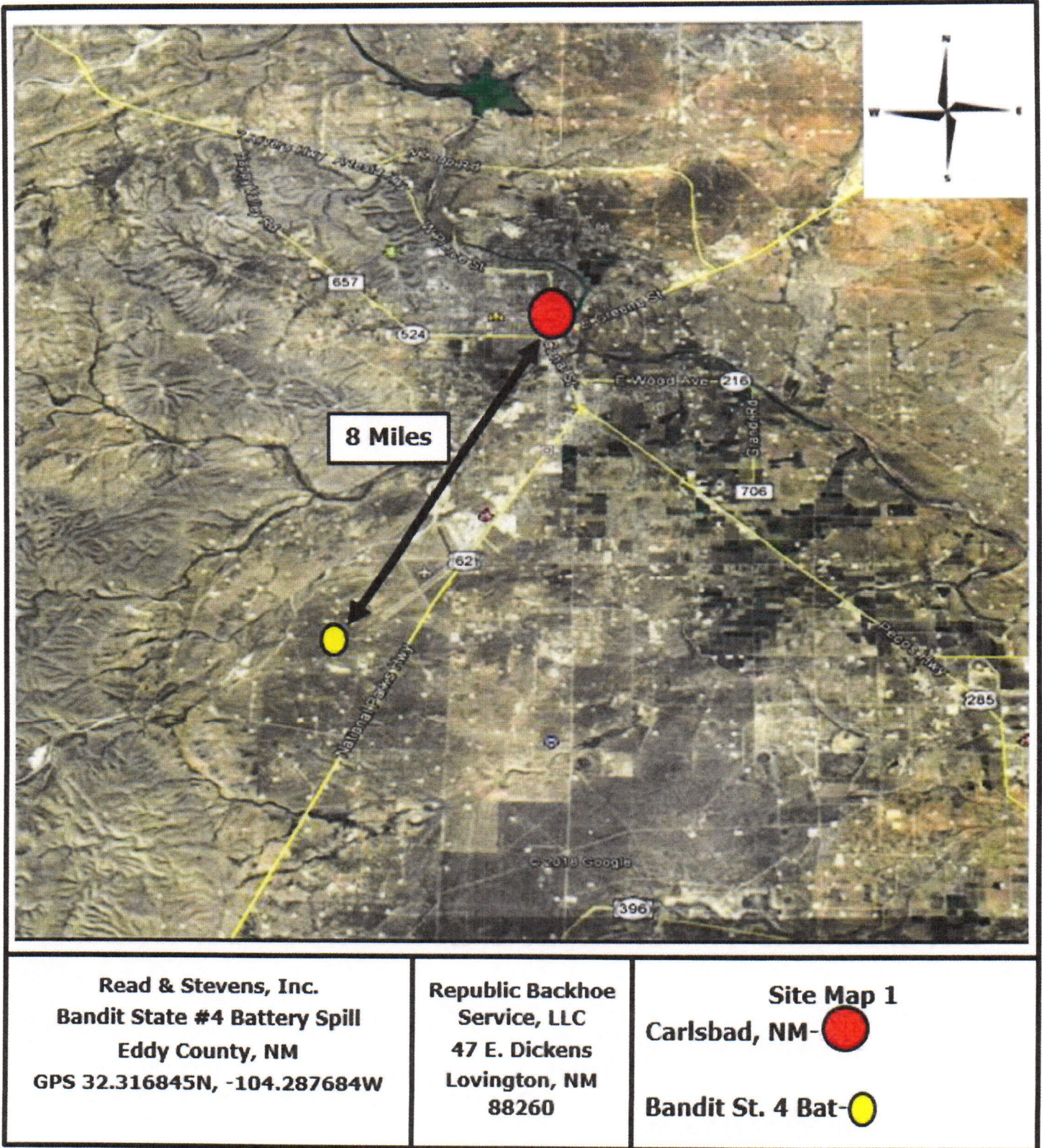


Read & Stevens, Inc.
Bandit State #4 Battery Spill
Eddy County, NM
GPS 32.316845N, -104.287684W

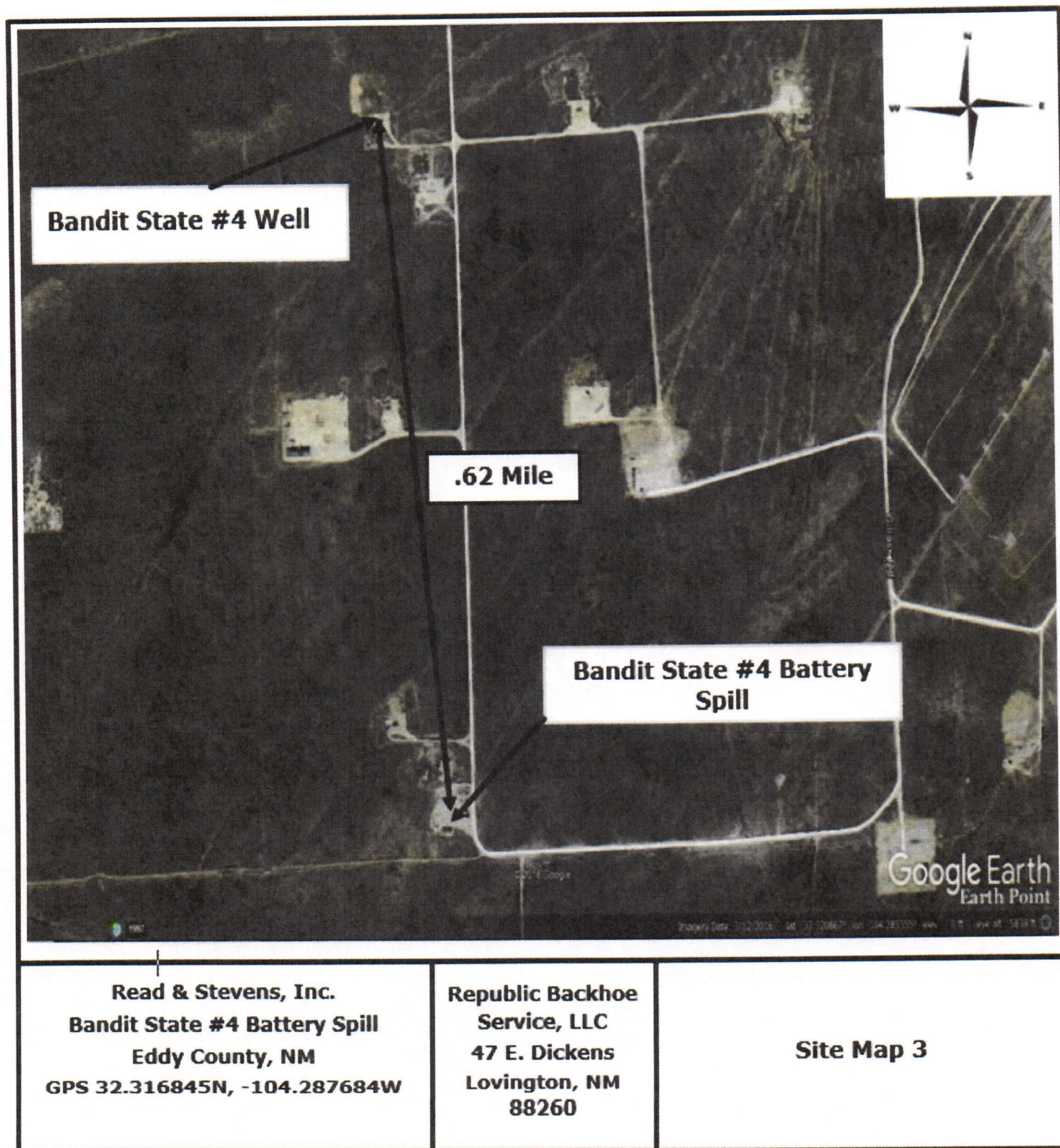
Republic Backhoe
Service, LLC
47 E. Dickens
Lovington, NM
88260

Spill Map
Approx. 8,700 Sq. Ft.

Attachment III
Site Map



Attachment IV
Lease Map



Attachment V
OSE Groundwater Data



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)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
C 02264		CUB	ED	4	03	23S	26E			568065	3577254*	1790		260		
C 02382		C	ED	4	03	23S	26E			568065	3577254*	1790		288	248	40
C 02393		C	ED	4	03	23S	26E			568065	3577254*	1790		290	245	45
C 01140		C	ED	1	3	3	15	23S	26E	566980	3573870*	1899		325		

Average Depth to Water: 246 feet

Minimum Depth: 245 feet

Maximum Depth: 248 feet

Record Count: 4

UTM NAD83 Radius Search (in meters):

Easting (X): 567065.97

Northing (Y): 3575767.62

Radius: 2000

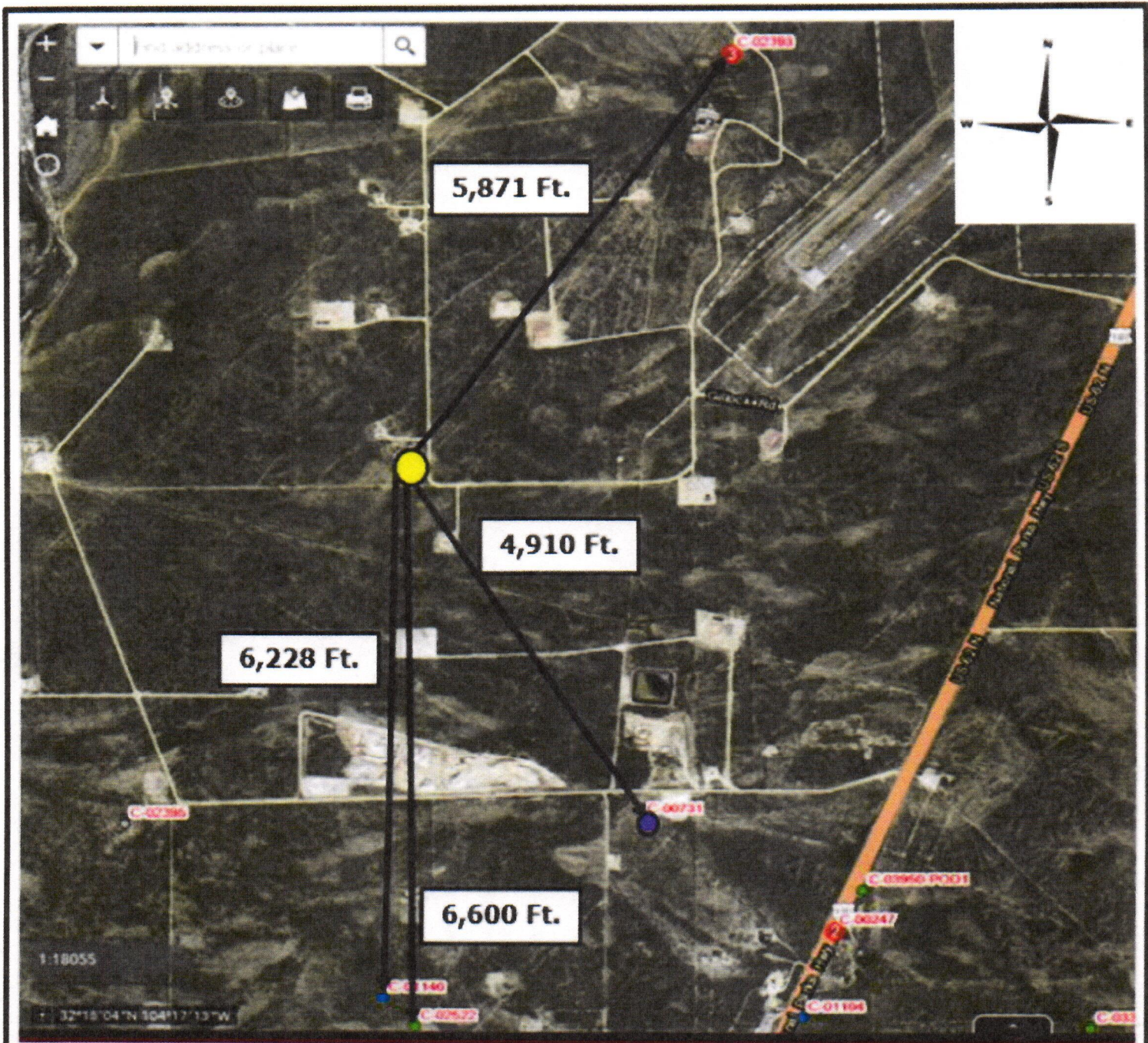
*UTM location was derived from PLSS - see Help

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

5/1/18 12:49 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

**Attachment VI
Water Well Map**

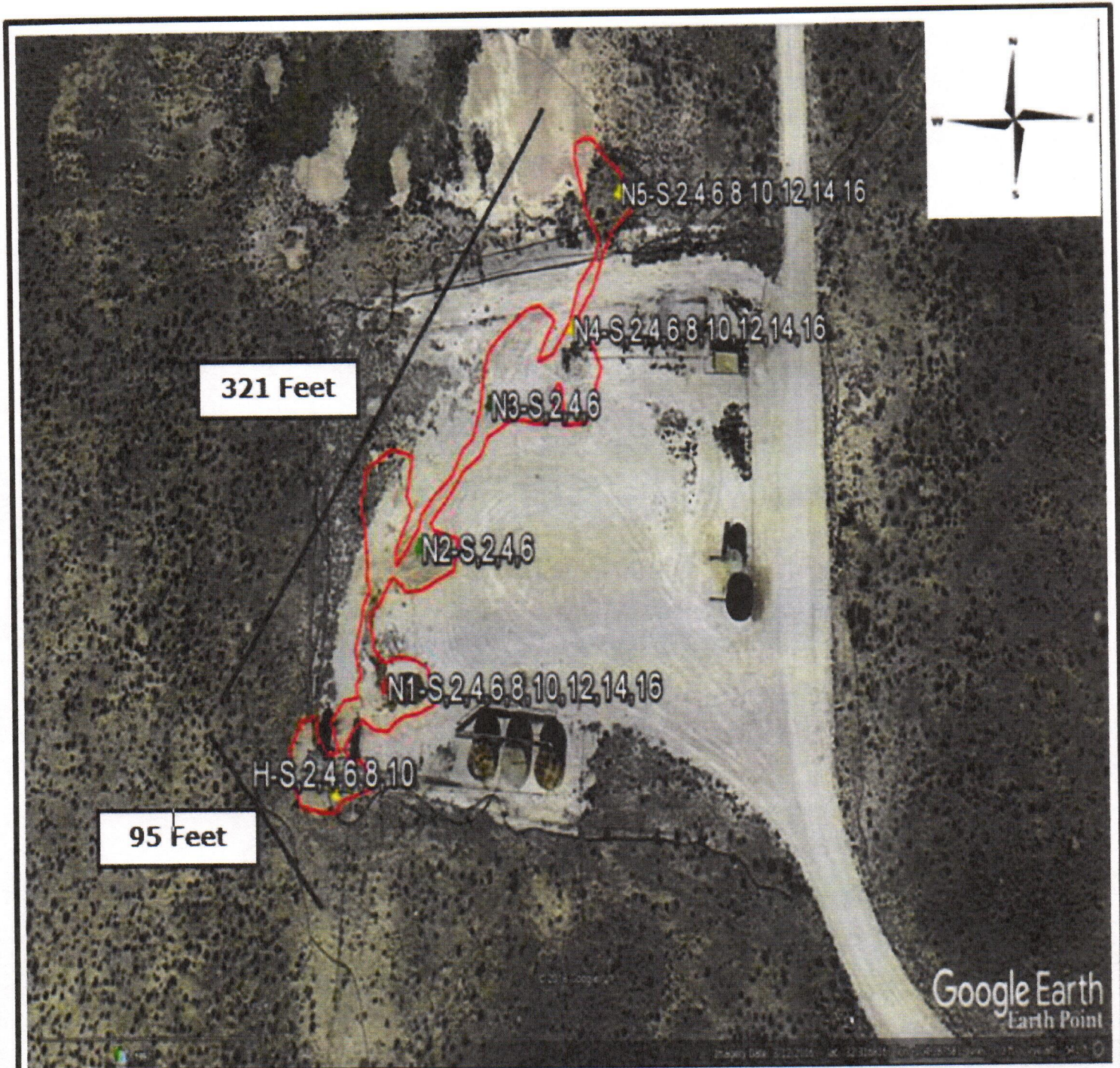


Read & Stevens, Inc.
Bandit State #4 Battery Spill
Eddy County, NM
GPS 32.316845N, -104.287684W

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

Water Well Map
Bandit State #4 Battery ●
C-02393, 02264, 02382 ●
C-00731 ●
C-02522 ●
C-01140 ●

Attachment VII
Sampling Map



Read & Stevens, Inc.
Bandit State #4 Battery Spill
Eddy County, NM
GPS 32.316845N, -104.287684W

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

Sampling Map

Attachment VIII
Seed Mixture

Bamert Seed Company Inc.

1837 CH. 1013 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

**Warm Season SSR Grass Seed Mix 350 Bulk in 250
bags**

Sales # SO-60263

Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	4.32%	82.00%	14.00%	0.00%	TX
Bluestem, Yellow "WW Spar" (Andropogon ischaemum)	7.22%	90.00%	5.00%	0.00%	
Buffalograss, "Texoka" Primed KNO3 (Bouteloua dactyloides)	5.86%	96.00%	0.00%	0.00%	TX
Dropseed, Sand (Sporobolus cryptandrus)	5.49%	31.00%	63.00%	0.00%	
Fescue, Tall "KY 31" (Festuca arundinacea Schreb.)	1.98%	85.00%	0.00%	0.00%	OR
Grama, Blue (Bouteloua gracilis)	19.49%	94.00%	0.00%	0.00%	NM
Grama, Sideoats (Bouteloua curtipendula)	22.06%	46.00%	39.00%	0.00%	KS
Kleingrass, "Selection 75" (Panicum coloratum)	7.82%	95.00%	0.00%	0.00%	TX
Switchgrass, "Blackwell" (Panicum virgatum)	7.82%	21.00%	72.00%	0.00%	TX
Purity: 82.07%	Inert Matter: 17.76%	Other Crop Seed: 0.09%		Weed Seed: 0.08%	

**Attachment IX
Analytical Results**



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

April 26, 2018

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

RE: BANDIT #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/25/18 11:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Page 1 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H-S (H801133-01)

STEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46		
Toluene*	0.058	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	QR-03	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	QR-03	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	QR-03	
Total BTEX	<0.300	0.300	04/25/2018	ND						
Surrogate: 4-Bromofluorobenzene (PIE)		55.8 %	72-148							
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26000	16.0	04/25/2018	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	04/25/2018	ND	188	93.9	200	1.17		
DRO >C10-C28*	1050	50.0	04/25/2018	ND	199	99.6	200	1.05	QM-07, QR-03	
EXT DRO >C28-C36	572	50.0	04/25/2018	ND						
Surrogate: 1-Chlorooctane		80.8 %	41-142							
Surrogate: 1-Chlorooctadecane		131 %	37.6-147							

Cardinal Laboratories

*Accredited Analyte

NOTES: Results and Samples: Cardinal's ability and results are based on the sample received. It is the responsibility of the client to ensure that the sample is representative of the material being tested. In the event of a discrepancy between the results and the client's records, the client shall be responsible for the accuracy of the results. In the event of a discrepancy between the results and the client's records, the client shall be responsible for the accuracy of the results. In the event of a discrepancy between the results and the client's records, the client shall be responsible for the accuracy of the results.

Caley D. Keene, Lab Director/Quality Manager

Page 2 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: H-2 (H801133-02)

mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Surrogat: 4-Bromofluorbenzene (PIL)	96.3 %	72-J45
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Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11.2	16.0	04/25/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate, 1-Chlorooctane	79.3%	4J-143
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<i>Surrogate: 3-Chlorooctadecane</i>	70.0 %	32.6-147
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*=Accredited Analyte

[illegible]

Chas. E. Jones

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: H-4 (H801133-03)

STEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STEX	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 56.1 % 72.145

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	98.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane 56.7 % 41.142

Surrogate: 1-Chlorododecane 76.1 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

NOTE: Accuracy and Precision: Cardinal's ability and results measure results for any given sample whether tested in person or not, also be noted to the amount used by client for analysis. In some testing there is a minimum and maximum amount that can be tested. Results are based on the amount used by client for analysis. In some testing there is a minimum and maximum amount that can be tested. Results are based on the amount used by client for analysis. In some testing there is a minimum and maximum amount that can be tested. Results are based on the amount used by client for analysis.

Coley D. Keene, Lab Director/Quality Manager

Page 4 of 31



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: H-6 (H801133-04)

BTEX 80218		mg/kg		Analyzed By: M5						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46		
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68		
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65		
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65		
Total BTEX	<0.300	0.300	04/25/2018	ND						

Surrogate: 4-Bromofluorobenzene (PDE)		93.2 %	72-148						
Chloride, SM4500C-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane	53.3 %	41-142
Surrogate: 1-Chlorooctadecane	73.8 %	37.6-147

Cardinal Laboratories

* = Accredited Analyte

NOTES: LODs and RPDs. Cardinal's ability and results are based on the amount and type of sample received. In some cases, results may be reported and any other data information that is deemed correct unless made in writing and received by Cardinal within 30 days after completion of the analysis period. In no event shall Cardinal be held responsible for results or consequences of analysis resulting without limitation, business information, use of data or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services rendered by Cardinal, regardless of whether such claim is based on any of the above stated reasons or otherwise. This shall not be construed as a limitation on the scope of Cardinal's laboratory.

Celest D. Keene, Lab Director/Quality Manager

Page 5 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: H-8 (H801133-05)

STEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46		
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68		
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65		
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65		
Total STEX	<0.300	0.300	04/25/2018	ND						

Surregate: 4-Bromofluorobenzene (PDE		98.1-96	72-148							
Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/25/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17		
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND						

Surregate: 1-Chlorooctane	56.2 %	41-142
Surregate: 1-Chlorooctadecane	74.1 %	37.6-147

Cardinal Laboratories

*Accredited Analyte

NOTES: Results and Comments: Cardinal's quality and results assurance comply for any sample analysis whether done in Cardinal's laboratory or by a third party. In cases involving third party analysis, Cardinal's quality and results assurance comply for any sample analysis whether done in Cardinal's laboratory or by a third party. In cases involving third party analysis, Cardinal's quality and results assurance comply for any sample analysis whether done in Cardinal's laboratory or by a third party. In cases involving third party analysis, Cardinal's quality and results assurance comply for any sample analysis whether done in Cardinal's laboratory or by a third party.

Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

Page 6 of 31



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Hanson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: H-10 (H801133-06)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIZ) 93.3 % 72-148

Chloride, 5M4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorobutane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 73.9 % 27.6-147

Cardinal Laboratories

* = Accredited Analyte

NOTES: Units and Conversions: Cardinal's ability and results are based on the amount used by client for analysis. In some readings there may be response and any other issue information that is deemed correct unless made in writing and received by Cardinal within 30 days after completion of the analysis period. In no event shall Cardinal be liable for results or consequential damages, including without limitation, business interruptions, loss of use or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results made only to the person identified above. The report shall not be reproduced except in full in the written records of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N1-S (H801133-07)

mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Supergate, 4-Bromofluorobenzene (PIL)	94.2 56	72-145
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Chloride, 5M4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28800	16.0	04/25/2016	ND	432	108	400	0.00	

TPH 8015M

TPH B015M	mg/kg		Analyzed By: M5							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17		
DRO >C10-C28*	20.8	10.0	04/25/2018	ND	199	99.6	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND						

Surrogate: <i>n</i> -Chlorooctane	82.756	43-142
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Surrogate: 1-Chlorooctadecane	71.7 %	37.6-147
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Page 8 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N1-2 (H801133-08)

STEX 80218		mg/kg		Analyzed By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.55	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.52	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.50	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STEX	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (P12) 53.8 % 72-148

Chloride, SM4500C-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	96.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane 52.1 % 41-142

Surrogate: 1-Chlorooctadecane 73.3 % 37.5-147

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Page 9 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date:	04/24/2018
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Jodi Hanson

Sample ID: N1-4 (H801133-09)

BTEX 80218		mg/kg		Analyzed By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Substrate: 4-Bromofluorobenzene (PIL)	93.5 %	77-148
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Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ES	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M	mg/kg
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Sumptard, J.-Chloroaurate	36.4%	41-147
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Synonym: J-Chlorodontaspis	74.4%	37.6-147
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Page 10 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N1-6 (H801133-10)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Synthesiz. 4-Bromofluorobenzol (PIL)	93.3 36	73-145
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Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	04/25/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: M5

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	95.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate, 1-Chlorooctane	55.2%	41-142
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Surrogate, 1-Chlorooctadecane	71.1-86	37.6-147
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Page 11 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N2-5 (H801133-11)

STEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STX	<0.300	0.300	04/25/2018	ND					

Substrate: 4-Bromofluorobenzene (PIE)	94.5-96	77-145
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Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38000	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M	mg/kg	Analyzed By: M5
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate, 1-Chlorooctane	79.336	41-142
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Surrogate: 1-Chlorooctadecane	63.6%	4.6-14.7
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Page 12 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N2-2 (H801133-12)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Surrey: 4-Bromofluorobenzene (PIL)	95.1 56	72-145
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Chloride, SM4500C-8		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	90.0	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M	mg/kg	Analyzed By: M5
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	186	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chloro-octane	81.4 %	41-147
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Synonym: 1-Chloroundecane	67-19-6	17.5-147
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Page 13 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N2-4 (H801133-13)

mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Substrate. 4-Bromophenolbenzene (PIL)	95.9 96	72-148
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Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: M5

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	98.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

<i>Surrogata, 1-Chlorooctane</i>	90.8 56	43-142
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Surrogate: 2-Chlorooctadecane	75.4%	37.6-147
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Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: N2-6 (H801133-14)

STEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STEX	<0.300	0.300	04/25/2018	ND					

Subrigate. 4-Bromofluorobenzene (PIE)	94.9 56	72-145
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Chloride, SM4500Cl-8		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10 ^a	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28 ^a	<10.0	10.0	04/25/2018	ND	199	95.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate. 1-Chlorooctane	79.6%	41-142
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Surrogate: 1-Chlorooctadecane	64.7%	37.6-147
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Colby C. Brown

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Page 15 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N3-S (H801133-15)

STEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STEx	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL)	94.8 56	73-145
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Chloride, SM4500Cl-B		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M

FW 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD C6-C10 ⁿ	<10.0	10.0	04/25/2018	ND	198	93.9	200	1.17	
DRO >C10-C28 ⁿ	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Subregión. I-Chlorococleane	34,7 %	41-142
Subregión. I-Chlorococleaceae	66,3 %	37,6-141

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Page 16 of 31



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Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: N3-2 (H801133-16)

BTEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (P12)	93.2 %	73-148						
Chloride, 5M4500Cl-B	mg/kg	Analyzed By: AC						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane 77.7 % 43-142

Surrogate: 1-Chlorooctadecane 62.3 % 37.6-147

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Page 17 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N3-4 (H801133-17)

mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STEX	<0.300	0.300	04/25/2018	ND					

Surregate: 4-Bromofluorobenzene (PIZ)	84,9 %	77-145
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Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/25/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: M5

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD C6-C10 ⁿ	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28 ⁿ	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane	73.536	4J-142
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<i>Surregada</i> , 3-Chlorooctadecane	58.45%	37.6-147
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July 2, 1890

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Page 18 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date:	04/24/2018
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Jodi Henson

Sample ID: N3-6 (H801133-18)

STEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total STEX	<0.300	0.300	04/25/2018	ND					

Supergate: 4-Bromofluorobenzene (PIE) 98.1 56 73-145

Chloride, SM4500Cl-B		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	286	16.0	04/25/2016	ND	432	108	400	0.00	

TPH 8015M	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate, 1-Chlorooctane	78.734	41-147
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Surrogate, 1-Chlorooctadecane	62.4%	37.6%
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Labels: 1275, Liability and Damages. Defendant's liability and statute concerns merely the way some things, whether used or not, are to be related to the criminal and civil legal systems. It seems, reading these two paragraphs and reading other evidence, that defendant would have been a worker and employed by defendant after May 1992 after the expiration of the statute of limitations. It is not until after Defendant has been held liable for negligent or intentional damages, reading other evidence, because defendant was at one or more of the places named by defendant. Defendant, as a business owner, engaged in or was related to the performance of the services, however, by Defendant, regardless of whether such were a limited variety of the above stated services or otherwise. Thus, it would apply to the services as described above. The standard that is involved herein is "actual or inferred notice of Defendant's activities."

Cheng, L. & J. A. J. H. Reijnen

Ceely D. Keene, Lab Director/Quality Manager

Page 19 of 31



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N4-S (H801133-19)

BTX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene*	<0.050	0.050	04/25/2018	ND	1.92	95.8	2.00	9.68	
Ethylbenzene*	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes*	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTX	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 93.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	68000	16.0	04/25/2018	ND	432	108	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	186	93.9	200	1.17		
DRO >C10-C28*	26.8	10.0	04/25/2018	ND	199	99.6	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND						

Surrogate: 1-Chlorooctane 78.8 % 41-142

Surrogate: 1-Chlorodecane 89.8 % 37.6-147

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NOTES: Units and Samples: Cardinal's units and sample masses assume purity for any sample analyzed. In method or test that is used to the amount and by used for analysis. In some testing there are reagents and any other mass (including water) is assumed unless noted. In testing and reported by Cardinal within 240 (240) days after completion of the analysis period. In no event shall Cardinal be liable for material or consequential damages, including without limitation, business interruptions, loss of use or loss of profit, incurred by third parties, arising from or caused by the performance of the services rendered by Cardinal, regardless of whether such claim is based on contract or tort. Results made only to the person identified above. The report shall be reproduced in its entirety and in accordance with the terms of Cardinal's policies.

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Page 20 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N4-2 (H801133-20)

mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/25/2018	ND	1.95	97.5	2.00	8.46	
Toluene ^a	<0.050	0.050	04/25/2018	ND	1.82	95.8	2.00	9.68	
Ethylbenzene ^a	<0.050	0.050	04/25/2018	ND	1.90	95.0	2.00	7.65	
Total Xylenes ^a	<0.150	0.150	04/25/2018	ND	5.79	96.6	6.00	7.65	
Total BTEX	<0.300	0.300	04/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PDE	94.9 %	72-145
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Chloride, SMAS00Cl-B		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/25/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: M5

Analyte	Result	Reporting Limit	Analyzed	Method Blank	ES	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	188	93.9	200	1.17	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	199	99.6	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrigate. 1-Chlorooctane	72.7 56	41-[47]
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Surrogate: 1-Chlorooctadecane	58.4 %	37.6-147
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Page 21 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Hanson

Sample ID: N4-4 (H801133-21)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2018	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	04/26/2018	ND	2.11	106	2.00	0.235	
Ethylbenzene*	<0.050	0.050	04/26/2018	ND	2.06	103	2.00	0.218	
Total Xylenes*	<0.150	0.150	04/26/2018	ND	6.23	104	6.00	0.411	
Total BTEX	<0.300	0.300	04/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 94.1 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	228	114	200	0.0580	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	221	111	200	0.820	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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NOTES: Accuracy and Precision: Cardinal's ability and accuracy depends primarily on the quality of the sample and the method used by the analyst. It is recommended that the sample be analyzed by the analyst who prepared the sample. Accuracy and precision are determined by the analyst using the sample and the method used by the analyst. Accuracy and precision are determined by the analyst using the sample and the method used by the analyst. Accuracy and precision are determined by the analyst using the sample and the method used by the analyst.

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Coley D. Keene, Lab Director/Quality Manager

Page 22 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N4-6 (H801133-22)

mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2018	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	04/26/2018	ND	2.11	106	2.00	0.235	
Ethylbenzene*	<0.050	0.050	04/26/2018	ND	2.06	103	2.00	0.218	
Total Xylenes*	<0.150	0.150	04/26/2018	ND	6.23	104	6.00	0.411	
Total BTEX	<0.300	0.300	04/26/2018	ND					

Supergate, 4-Bromofluorobenzene (PIE)	94.6 56	77-148
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Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	226	114	200	0.0580	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	221	111	200	0.620	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Succinate, 1-Chlorosuccinate	90.0-96	41-142
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<i>Surreygold, 1-Chlorooctadecane</i>	37.4-36	37.6-147
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Page 23 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N5-S (H801133-23)

BTEX 80218		mg/kg		Analyzed By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene ^a	<0.050	0.050	04/26/2018	ND	2.13	106	2.00	0.571	
Toluene ^a	<0.050	0.050	04/26/2018	ND	2.11	106	2.00	0.235	
Ethylbenzene ^a	<0.050	0.050	04/26/2018	ND	2.06	103	2.00	0.218	
Total Xylenes ^a	<0.150	0.150	04/26/2018	ND	6.23	104	6.00	0.411	
Total BTEX	<0.300	0.300	04/26/2018	ND					

Surregate: 4-Bromofluorobenzene (PID) 96.0 % 72-145

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	228	114	200	0.0580	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	221	111	200	0.620	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					

Surregate: 1-Chlorooctane 91.8 % 41-142

Surregate: 1-Chlorooctadecane 81.8 % 37.6-147

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NOTES: Accuracy and Precision: Cardinal's ability and results measure results for any sample, whether tested in method or not, also be noted to the amount and by used for analysis. In cases resulting from the regression and any other issue information that is deemed correct unless made in writing and received by Cardinal within 30 days after completion of the analytical service. In the event of a Cardinal laboratory or equipment damage, resulting in direct limitation, business interruption, loss of use or loss of profits incurred by client, the customer's liability or insurance policy and/or be needed to the performance of the service provided by Cardinal. Reproduction of results must have a signed copy of the above stated measure or otherwise. Results may only be the service provided. The report shall not be reproduced except in full or in part without the written consent of Cardinal Laboratories.

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Page 24 of 31



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Analytical Results For:

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

Received: 04/25/2018
Reported: 04/26/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/24/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N5-2 (H801133-24)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2018	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	04/26/2018	ND	2.11	106	2.00	0.235	
Ethylbenzene*	<0.050	0.050	04/26/2018	ND	2.06	103	2.00	0.218	
Total Xylenes*	<0.150	0.150	04/26/2018	ND	6.23	104	6.00	0.411	
Total BTEX	<0.300	0.300	04/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (P1C)	53.4 %	72-145
Chloride, SM4500C-B	mg/kg	Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	04/25/2018	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	228	114	200	0.0580	
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	221	111	200	0.620	
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND					
Surrogate: 1-Chlorooctane		56.3 %	41-142						
Surrogate: 1-Chlorodecane		56.7 %	37.6-147						

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Celestine D. Keene, Lab Director/Quality Manager

Page 25 of 31



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: N5-4 (H801133-25)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2018	ND	2.13	106	2.00	0.571		
Toluene*	<0.050	0.050	04/26/2018	ND	2.11	106	2.00	0.235		
Ethylbenzene*	<0.050	0.050	04/26/2018	ND	2.06	103	2.00	0.218		
Total Xylenes*	<0.150	0.150	04/26/2018	ND	6.23	104	6.00	0.411		
Total BTEX	<0.300	0.300	04/26/2018	ND						

Surrogate: 4-Bromofluorobenzene (PJD) 94.4 % 73-145

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/25/2018	ND	432	108	400	0.00	
TBM 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/25/2018	ND	228	114	200	0.0580		
DRO >C10-C28*	<10.0	10.0	04/25/2018	ND	221	111	200	0.820		
EXT DRO >C28-C36	<10.0	10.0	04/25/2018	ND						

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.8 % 37.8-147

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Page 26 of 31



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Analytical Results For:

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

Received:	04/25/2018	Sampling Date:	04/24/2018
Reported:	04/26/2018	Sampling Type:	Soil
Project Name:	BANDIT #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	101	Sample Received By:	Jodi Henson
Project Location:	READ & STEVENS-BANDIT ST #4 BATT.		

Sample ID: N5-6 (H801133-26)

BTEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2018	ND	2.13	106	2.00	0.571	
Toluene*	<0.050	0.050	04/26/2018	ND	2.11	106	2.00	0.235	
Ethylbenzene*	<0.050	0.050	04/26/2018	ND	2.06	103	2.00	0.218	
Total Xylenes*	<0.150	0.150	04/26/2018	ND	6.23	104	6.00	0.411	
Total BTEX	<0.300	0.300	04/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 72-145

Chloride, SM4500C-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	04/25/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD C6-C10*	<10.0	10.0	04/25/2018	ND	228	114	200	0.0580	
DRD >C10-C28*	<10.0	10.0	04/25/2018	ND	221	111	200	0.820	
EXT DRD >C28-C36	<10.0	10.0	04/25/2018	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 78.4 % 37.5-147

Cardinal Laboratories

* = Accredited Analyte

ADDITIONAL NOTES: Cardinal Laboratories, Inc. (Cardinal) is a laboratory that provides analytical services to its clients. Cardinal is not responsible for the accuracy or reliability of the results of the analysis if the client does not follow the instructions provided in the report. Cardinal is not responsible for the accuracy or reliability of the results of the analysis if the client does not follow the instructions provided in the report. Cardinal is not responsible for the accuracy or reliability of the results of the analysis if the client does not follow the instructions provided in the report. Cardinal is not responsible for the accuracy or reliability of the results of the analysis if the client does not follow the instructions provided in the report.

Celey D. Keene, Lab Director/Quality Manager

Page 27 of 31



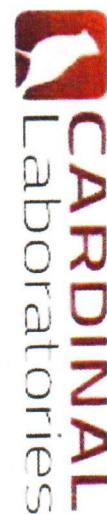
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
ww	Samples not received at proper temperature of 6°C or below.
www	Insufficient time to reach temperature.
-	Chloride by SM4500C-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

[illegible]

Chas. E. Brown

Celey D. Keene, Lab Director/Quality Manager

Page 28 of 31



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 29 of 31

Company Name <i>Reagle Backer Service, LLC</i> Project Manager <i>Eric Garcia</i> Address <i>475 E. Dicks Rd</i> City <i>Levittown</i> State <i>NM</i> Zip <i>88260</i> Phone # <i>575-631-0131</i> Fax # Project # <i>101</i> Project Owner <i>Reagle Backer Service, LLC</i> Project Name <i>Band 1 Hwy Bypass</i> Project Location <i>Band 1 State Hwy 3, H-3</i> Sample Name <i>Eric Garcia</i>		P.O. # Company <i>Reagle Backer Service, LLC</i> Attn <i>Kelly</i> Address <i>Reagle Backer Service, LLC</i> City <i>Levittown</i> State <i>NM</i> Zip <i>88260</i> Phone # Fax #	
Lab I.D. <i>H801133</i> Sample I.D. <i>H-5 H-4 H-3 H-6 H-8 H-10 M-5 M-4 M-3 M-6</i>		MATRIX ☒ GRAB OR COMPOUND ☒ CONTAINERS ☒ GROUNDWATER ☒ WASTEWATER ☒ SOIL ☒ OIL ☒ SLUDGE ☒ OTHER ☒ ACID/BASE ☒ ICE / COOL ☒ OTHER	
DATE <i>9-23-18</i> TIME <i>10:35</i> DATE <i>9-24-18</i> TIME <i>9:15A</i> <i>9:45A 10:15A 10:30A 10:45 11:15 11:30 11:45 12:15</i>		ANALYSIS REQUEST ☒ TPH ☒ CHLORIDE ☒ BTEX	

Retrieved By *Eric Garcia* **Date** *9-23-18* **Received By** *Eric Garcia* **Date** *9-23-18*

Relinquished By *Eric Garcia* **Date** *9-23-18* **Received By** *Eric Garcia* **Date** *9-23-18*

Delivered By (Circle One) *4664-4.1652* **Sample Condition** *Good*
 Sampler: ☒ UPS ☐ Bus ☐ Other: *in front of house*

Checked By *Eric Garcia*

Phone Result ☐ Yes ☐ No **Add Phone #**
Fax Result ☐ Yes ☐ No **Add Fax #**
REMARKS: *RUSH!!*

Page 30 of 31



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name Republic Backhoe Service, LLC. Project Manager Eric Garcia Address 47 E Dickens Rd City Lovington State NM Zip 88240 Phone # (575) 631-0131 Fax # Project # 101 Project Name: Bandit #4 Battery Project Location: Bandit State #4 Battery Sample Name: Eric Garcia		P.O. # Company: Attn: Address: City: State: Zip: Phone #: Fax #:			
Lab I.D. 4801033 Sample I.D. 21, 22, 23, 24, 25, 26 21-4, 22-6, 23-5, 24-2, 25-1, 26-1		MATRIX (G) GRAB OR (C) COMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE-COOL OTHER			
DATE 4/24/10 TIME 2:25, 2:40, 2:55, 3:15, 3:40		ANALYSIS REQUEST TPH Chloride BTEX			
Relinquished By [Signature] Received By [Signature] Date 4/28/10 Time 1:30 Relinquished By [Signature] Received By [Signature]		Delivered By: (Circle One) - UPS - Bus - Other - 4.10.1 - 4.10.2 - 4.10.3 - 4.10.4 - 4.10.5 - 4.10.6 - 4.10.7 - 4.10.8 - 4.10.9 - 4.10.10 - 4.10.11 - 4.10.12 - 4.10.13 - 4.10.14 - 4.10.15 - 4.10.16 - 4.10.17 - 4.10.18 - 4.10.19 - 4.10.20 - 4.10.21 - 4.10.22 - 4.10.23 - 4.10.24 - 4.10.25 - 4.10.26 - 4.10.27 - 4.10.28 - 4.10.29 - 4.10.30 - 4.10.31 - 4.10.32 - 4.10.33 - 4.10.34 - 4.10.35 - 4.10.36 - 4.10.37 - 4.10.38 - 4.10.39 - 4.10.40 - 4.10.41 - 4.10.42 - 4.10.43 - 4.10.44 - 4.10.45 - 4.10.46 - 4.10.47 - 4.10.48 - 4.10.49 - 4.10.50 - 4.10.51 - 4.10.52 - 4.10.53 - 4.10.54 - 4.10.55 - 4.10.56 - 4.10.57 - 4.10.58 - 4.10.59 - 4.10.60 - 4.10.61 - 4.10.62 - 4.10.63 - 4.10.64 - 4.10.65 - 4.10.66 - 4.10.67 - 4.10.68 - 4.10.69 - 4.10.70 - 4.10.71 - 4.10.72 - 4.10.73 - 4.10.74 - 4.10.75 - 4.10.76 - 4.10.77 - 4.10.78 - 4.10.79 - 4.10.80 - 4.10.81 - 4.10.82 - 4.10.83 - 4.10.84 - 4.10.85 - 4.10.86 - 4.10.87 - 4.10.88 - 4.10.89 - 4.10.90 - 4.10.91 - 4.10.92 - 4.10.93 - 4.10.94 - 4.10.95 - 4.10.96 - 4.10.97 - 4.10.98 - 4.10.99 - 4.10.100		Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐ Min ☒ Max ☐ Checked by [Signature] Date [Signature]	



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

May 03, 2018

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: BANDIT #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/30/18 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704396-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accr_cred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 8



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 04/30/2018
Reported: 05/03/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/27/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: N 1 - 8 (H801186-01)

mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 1 - 10 (H801186-02)

Chloride, 5M4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/01/2016	ND	416	104	400	3.77		

Sample ID: N 1 - 12 (H801186-03)

Chloride, SM4500-Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/01/2018	ND	416	104	400	3.77		

Sample ID: N 1 - 14 (H801186-04)

Chloride, SM4500-Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/01/2018	ND	416	104	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

[illegible]

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBES, NM 88240

Analytical Results For:

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

Received: 04/30/2018
Reported: 05/03/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/27/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: N 1 - 16 (H801186-05)

Chloride, SM4500-Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 4 - 8 (H801186-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 4 - 10 (H801186-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 4 - 12 (H801186-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 4 - 14 (H801186-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/01/2018	ND	416	104	400	3.77	

Cardinal Laboratories

* = Accredited Analyte

NOTE: Results and Sample: Cardinal's quality and results are based on the sample as received. No further testing or analysis is performed on the sample. In some cases, results may be reported for the sample as received. In other cases, results may be reported for the sample after correction for the sample's moisture content. In the event that Cardinal is unable to provide the results for the sample as received, the results for the sample after correction for moisture content will be reported. In the event that Cardinal is unable to provide the results for the sample as received, the results for the sample after correction for moisture content will be reported. In the event that Cardinal is unable to provide the results for the sample as received, the results for the sample after correction for moisture content will be reported.

Ceiley D. Keene, Lab Director/Quality Manager

Page 3 of 8



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 04/30/2018
Reported: 05/03/2018
Project Name: BANDIT #4 BATTERY
Project Number: 101
Project Location: READ & STEVENS-BANDIT ST #4 BATT.

Sampling Date: 04/27/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: N 4 - 16 (H801186-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 5 - 6 (H801186-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 5 - 8 (H801186-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 5 - 10 (H801186-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/01/2018	ND	416	104	400	3.77	

Sample ID: N 5 - 12 (H801186-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/01/2018	ND	416	104	400	3.77	

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NOTE: Results and Sample: Cardinal's quality and service guarantee is based on the sample being analyzed as received or left after the initial analysis and is not intended to be used for process control. Results may vary from the reported value due to the inherent variability of the sample and the analytical process. In the event that Cardinal is used for process control, the user must ensure that the sample is properly prepared and that the analytical process is properly controlled. Cardinal is not responsible for any damages, including without limitation, business interruption, loss of data or loss of profits, resulting from the use of the results of the analysis. The user must ensure that the sample is properly prepared and that the analytical process is properly controlled. Cardinal is not responsible for any damages, including without limitation, business interruption, loss of data or loss of profits, resulting from the use of the results of the analysis.

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 8



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

Sampling Date: 04/27/2018
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/01/2018	ND	416	104	400	3.77	

Chloride, 5M4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/01/2018	ND	416	104	400	3.77	

*=Accredited Analyte

[illegible]

Chas. E. Davis

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8



ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
ww	Samples not received at proper temperature of 6°C or below.
www	Insufficient time to reach temperature.
-	Chloride by SMAS00C-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

*=Accredited Analyte

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8

Page 7 of 8



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Republic Machine Service Project Manager: Eric Garrison Address: 47 E. Dickens Rd City: Lawton State: NM Zip: 88240 Phone #: (505) 631-0131 Fax #: - Project #: 101 Project Owner: Bandit #4 Battery Project Name: Bandit #4 Battery Project Location: Bandit #4 Lead Stewies		P.O. #: Company: Attn: Paul Steens Address: City: State: Zip: Phone #: Fax #:	
Sampler Name: Date and Time Collected:	Lab I.D.: A80186	Sample I.D.: 1-00 2-00 3-00 4-00 5-00 6-00 7-00 8-00 9-00 10-00 11-00 12-00 13-00 14-00 15-00 16-00 17-00 18-00 19-00 20-00 21-00 22-00 23-00 24-00 25-00 26-00 27-00 28-00 29-00 30-00 31-00 32-00 33-00 34-00 35-00 36-00 37-00 38-00 39-00 40-00 41-00 42-00 43-00 44-00 45-00 46-00 47-00 48-00 49-00 50-00 51-00 52-00 53-00 54-00 55-00 56-00 57-00 58-00 59-00 60-00 61-00 62-00 63-00 64-00 65-00 66-00 67-00 68-00 69-00 70-00 71-00 72-00 73-00 74-00 75-00 76-00 77-00 78-00 79-00 80-00 81-00 82-00 83-00 84-00 85-00 86-00 87-00 88-00 89-00 90-00 91-00 92-00 93-00 94-00 95-00 96-00 97-00 98-00 99-00 100-00	MATRIX ☒ RADIATION (COMP) ☐ W CONTAINERS ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER ☐ ACID/ALKAL ☐ HOT/COLD ☐ OTHER:
Date and Time Analyzed:		DATE TIME 4/27 10:05 4/27 10:10 4/27 10:15 4/27 10:20 4/27 10:25 4/27 10:30 4/27 10:35 4/27 10:40 4/27 10:45 4/27 10:50 4/27 10:55 4/27 11:00 4/27 11:05 4/27 11:10 4/27 11:15 4/27 11:20 4/27 11:25 4/27 11:30 4/27 11:35 4/27 11:40 4/27 11:45 4/27 11:50 4/27 11:55 4/27 12:00 4/27 12:05 4/27 12:10 4/27 12:15 4/27 12:20 4/27 12:25 4/27 12:30 4/27 12:35 4/27 12:40 4/27 12:45 4/27 12:50 4/27 12:55 4/27 13:00 4/27 13:05 4/27 13:10 4/27 13:15 4/27 13:20 4/27 13:25 4/27 13:30 4/27 13:35 4/27 13:40 4/27 13:45 4/27 13:50 4/27 13:55 4/27 14:00 4/27 14:05 4/27 14:10 4/27 14:15 4/27 14:20 4/27 14:25 4/27 14:30 4/27 14:35 4/27 14:40 4/27 14:45 4/27 14:50 4/27 14:55 4/27 15:00 4/27 15:05 4/27 15:10 4/27 15:15 4/27 15:20 4/27 15:25 4/27 15:30 4/27 15:35 4/27 15:40 4/27 15:45 4/27 15:50 4/27 15:55 4/27 16:00 4/27 16:05 4/27 16:10 4/27 16:15 4/27 16:20 4/27 16:25 4/27 16:30 4/27 16:35 4/27 16:40 4/27 16:45 4/27 16:50 4/27 16:55 4/27 17:00 4/27 17:05 4/27 17:10 4/27 17:15 4/27 17:20 4/27 17:25 4/27 17:30 4/27 17:35 4/27 17:40 4/27 17:45 4/27 17:50 4/27 17:55 4/27 18:00 4/27 18:05 4/27 18:10 4/27 18:15 4/27 18:20 4/27 18:25 4/27 18:30 4/27 18:35 4/27 18:40 4/27 18:45 4/27 18:50 4/27 18:55 4/27 19:00 4/27 19:05 4/27 19:10 4/27 19:15 4/27 19:20 4/27 19:25 4/27 19:30 4/27 19:35 4/27 19:40 4/27 19:45 4/27 19:50 4/27 19:55 4/27 20:00 4/27 20:05 4/27 20:10 4/27 20:15 4/27 20:20 4/27 20:25 4/27 20:30 4/27 20:35 4/27 20:40 4/27 20:45 4/27 20:50 4/27 20:55 4/27 21:00 4/27 21:05 4/27 21:10 4/27 21:15 4/27 21:20 4/27 21:25 4/27 21:30 4/27 21:35 4/27 21:40 4/27 21:45 4/27 21:50 4/27 21:55 4/27 22:00 4/27 22:05 4/27 22:10 4/27 22:15 4/27 22:20 4/27 22:25 4/27 22:30 4/27 22:35 4/27 22:40 4/27 22:45 4/27 22:50 4/27 22:55 4/27 23:00 4/27 23:05 4/27 23:10 4/27 23:15 4/27 23:20 4/27 23:25 4/27 23:30 4/27 23:35 4/	

Page 8 of 8



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 385953

CONDITIONS

Operator: 3R Operating, LLC 4000 N BIG SPRING ST Midland, TX 79705	OGRID: 331569
	Action Number: 385953
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	9/23/2024