

REPUBLIC BACKHOE SERVICE LLC

INFORMATION ONLY

Olivia Yu
NMOCD District I
1625 N. French Dr.
Hobbs. NM 88240

July 16, 2017

Dear Olivia Yu,

Subject: Spill Summary and Remediation Work Plan

Location: Noble Permian LLC.
Eilliams Battery
1RP-4691

Noble Permian LLC has contracted Republic Backhoe Service LLC to perform site assessment and remediation services at the above referenced location. The results of our spill summary and proposed remediation activities consist of the following.

Incident Date

May 5, 2017

Background Information

The Eilliams Battery is located approximately nine (9) miles west of Buckeye, New Mexico. The legal location for the Battery is Unit A Section 34 Township 17 South and Range 33 East in Lea County, New Mexico. The spill site lies 550 feet west of the Eilliams Battery location with the GPS Coordinates as follows: Latitude: 32.795354 North Longitude: -103.646118 West. See Site Map attached in Appendix I.

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

Phone Number: (575) 631-0131

Email Ericgarcia62@hotmail.com

Watercourses in the area are dry except for infrequent flows in response to major precipitation events. The soil in this area is made up of Kimbrough-Lea loamy soil. As per the New Mexico Bureau of Geology and Minerals Resources, the local surface is comprised of 5" to 24" loamy soil with hard caliche below the soil. Groundwater in the area is estimated to be at a depth of 153 feet. See Appendix III for groundwater data.

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

Depth to ground water: 153' (50'-99')	0
Wellhead Protection Area: > 1000'	0
Distance to Surface Water Body: > 1000'	0

Incident Description

On May 5, 2017 the pumper spotted a leak from the 3" poly P/W transfer line from the Eilliams Battery to the disposal well. The pump automatically turned off on low pressure which minimized the release. A crew was called out to repair the line. The produced water quickly soaked into the ground and there was not enough time to call a vacuum truck to recover any of the release. A total of 25 barrels of P/W was released. See Appendix II for the Spill Site Measurements. On May 5, 2017 immediate notice was given by phone to Olivia Yu at NMOCDD Hobbs, NM and to Jim Amos Carlsbad, NM. On May 8, 2017 the C-141 was emailed to Olivia Yu. The spill occurred on deeded property belonging to Darr Angell (contacted 6/28/2017).

Actions Taken

On 6/30/2017 began to delineate the sit the Eilliams Battery Spill Site. Collected a total of eight surface samples at the site. Backhoe was unable to penetrate the hard caliche thus proponed further work until a drill rig was contracted. The surface samples were preserved in ice and taken to Cardinal Labs in Hobbs, NM. On 07/06/2017, continued to delineate the site at the Eilliams Battery Spill Site. Big Dog Drill Inc was contracted to drill the bore holes. A total of four bore holes were drilled from inside of the spill area. Samples were taken at 5', 10', 15' and 20'. Also, drilled one bore hole outside the spill area for background samples at depths of 5' and 15'. All soil samples were collected by Republic Backhoe Service LLC personnel wearing clean nitrile groves. The soil samples

were placed in laboratory provided sample containers and transported to Cardinal Labs in Hobbs, NM for analysis. The chlorides samples were analyzed per Method SM4500C1-B.

Laboratory Results

See Appendix IV for Site sample points.

Sample Date	Date Analyzed	Sample ID	Depth (feet)	Chlorides (mg/kg)
06/30/2017	07/03/2017	E15	0	20000
06/30/2017	07/03/2017	E25	0	19600
06/30/2017	07/03/2017	E35	0	23600
06/30/2017	07/03/2017	E45	0	30400
06/30/2017	07/03/2017	E55	0	26800
06/30/2017	07/03/2017	E65	0	18000
06/30/2017	07/03/2017	E75	0	18400
06/30/2017	07/03/2017	E85	0	16800
07/06/2017	07/07/2017	E2-5	5	464
07/06/2017	07/07/2017	E2-10	10	144
07/06/2017	07/07/2017	E2-15	15	208
07/06/2017	07/07/2017	E2-20	20	368
07/06/2017	07/07/2017	E3-5	5	400
07/06/2017	07/07/2017	E3-10	10	208
07/06/2017	07/07/2017	E3-15	15	144
07/06/2017	07/07/2017	E3-20	20	96
07/06/2017	07/07/2017	E5-5	5	896
07/06/2017	07/07/2017	E5-10	10	96
07/06/2017	07/07/2017	E5-15	15	128
07/06/2017	07/07/2017	E5-20	20	240
07/06/2017	07/07/2017	E8-5	5	128
07/06/2017	07/07/2017	E8-15	15	64
07/06/2017	07/07/2017	B 5	5	80
07/06/2017	07/07/2017	B 10	10	80

Proposal

The release poses little threat to groundwater contamination in the area. The depth to ground water in the area is greater than 150'. Also, the quantity of the release limits the contamination to less than 5 feet. The goal of remediating the site is to establish vegetation growth. We respectfully ask for the following:

Excavate two feet. (This includes the topsoil, because after two feet the hard caliche makes excavation extremely difficult.)

Any Excavated material will be hauled to R360 an approved disposal facility.

Will then backfill the area with topsoil provided by the rancher Darr Angell.

Then will seed the area with Warm Season SSR Grass Seed Mix 350. Please see the Revegetation and weed management plan below.

Revegetation and Noxious Weed Management Plans

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

Seeding Rate/ acre: 20 lbs/acre

Timing of Dispersal: Mid to late August 2017

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 Goatgrass
- Hoary Cress
- Cheat Grass
- African Rue
- Yellow Starthistle
- Malta Starthistle
- Purple Starthistle
- Common Teasel
- Camelthorn
- Russian Knapweed

IF you have any questions please call (575) 631-1031.

Eric Garcia
Republic Backhoe Services LLC

Appendix I

Site Map



Noble Permian LLC
Eilliams Battery Transfer Line Spill
Lea County, NM
GPS 32.795354N, -103.646118W

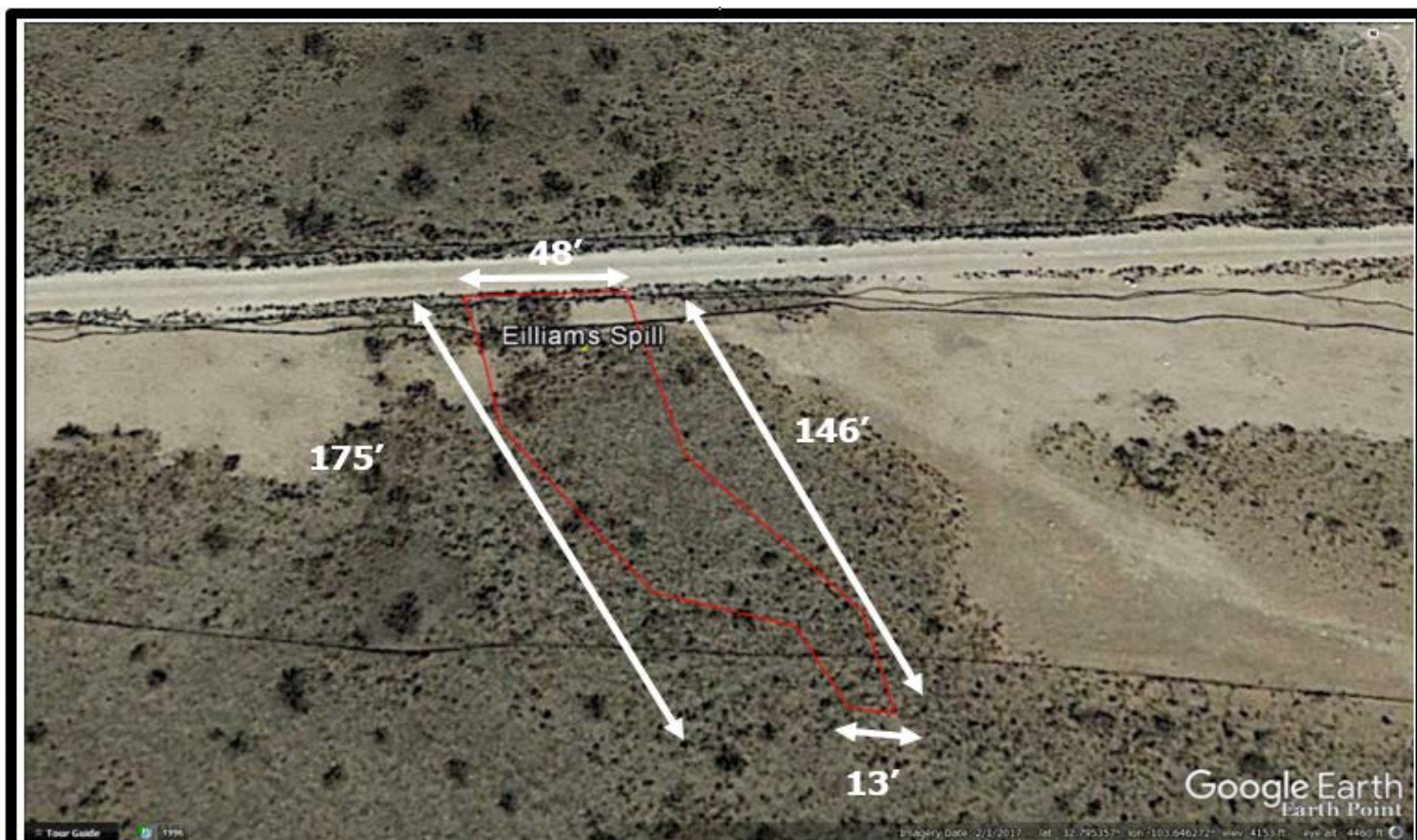
**Republic Backhoe
 Service LLC**
47 E. Dickens Rd
Lovington, NM
88260

Appendix I

Site Map

Appendix II

Site Measurements



Noble Permian LLC
Eilliams Battery Transfer Line Spill
Lea County, NM
GPS 32.795354N, -103.646118W

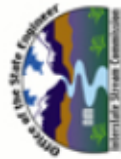
Republic Backhoe
Service LLC
47 E. Dickens Rd
Lovington, NM
88260

Appendix II

Sample Points

Appendix III

Ground Water 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																
POD Number	Code	Sub-basin	County	Q				Tws	Rng	X	Y	Distance	Depth	WellID	Depth	Water Column
				64	16	4	Q									
L 04363	L	LE	1	2	3	35	17S	33E	627634	3628855*		1003	226		160	66
L 05055	L	LE	3	3	4	35	17S	33E	628042	3628259*		1691	233		150	83
L 05096	L	LE	3	3	4	35	17S	33E	628042	3628259*		1691	233		150	83
Average Depth to Water: 153 feet																
Minimum Depth: 150 feet																
Maximum Depth: 160 feet																

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 626787.36 Northing (Y): 3629394.11 Radius: 2000

*UTM location was derived from PLSS - see Help

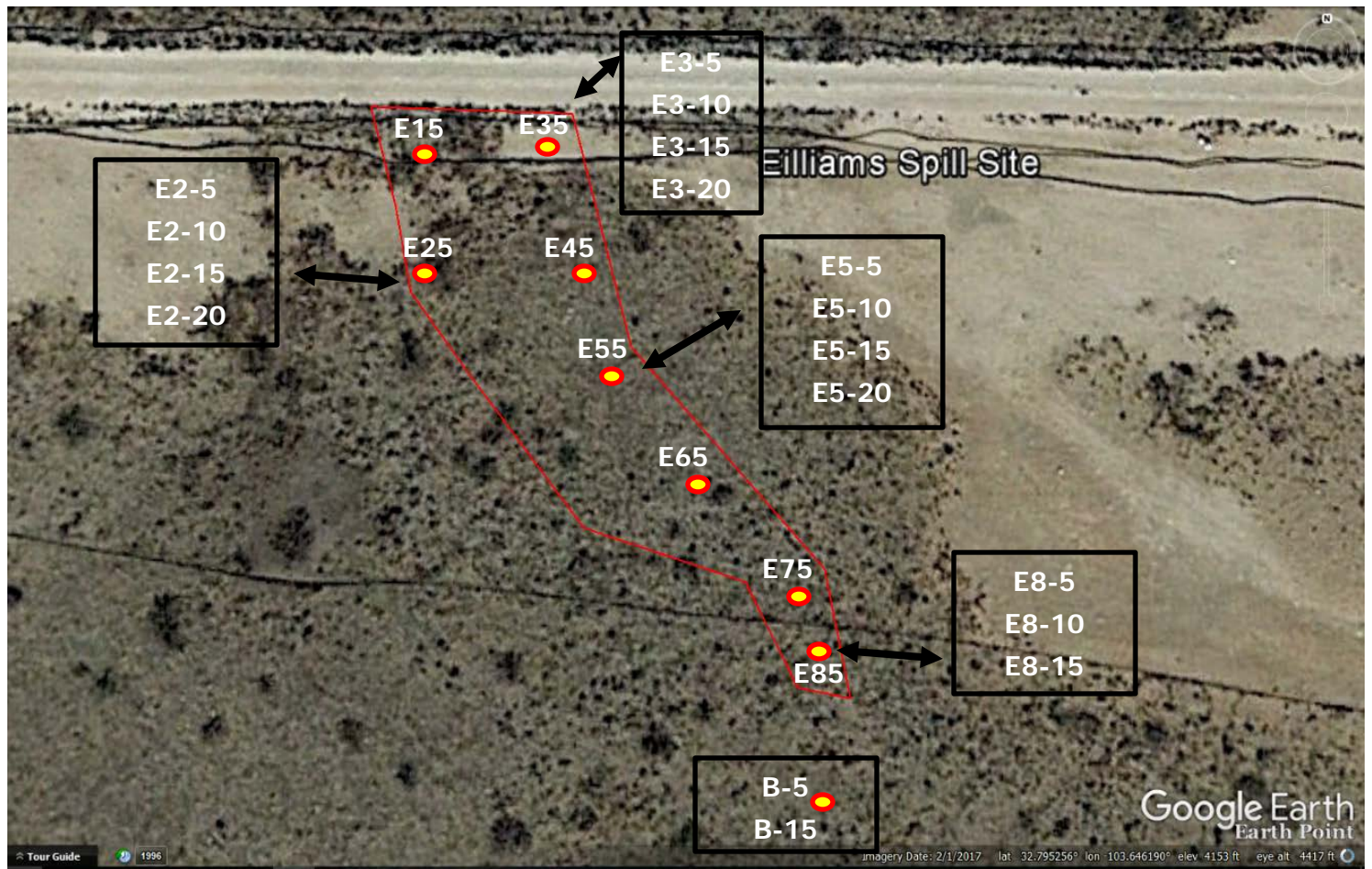
The data is furnished by the NMOWE/TSC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/17/17 5:40 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix IV

Sample Points



Noble Permian LLC
Williams Battery Transfer Line Spill
Lea County, NM
GPS 32.795354N, -103.646118W

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

Appendix IV Sample Points

Appendix V

Seed Mixture

Bamert Seed Company Inc.

1897 CR 1818 Muleshoe, TX 79347 (800) 262-9892

Permit # TX00905

Warm Season SSR Grass Seed Mix 350 Bulk in 25# 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: 0.09%	

Appendix VIII
C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Noble Permian L.L.C	Contact	Dave Dunlap
Address	1001 Noble Energy Way Houston Tx 77070	Telephone No.	575-390-2062
Facility Name	Williams Fed Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	BLM
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	34	17S	33E					Lea

Latitude 32.795393 Longitude -103.6460350

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	25	Volume Recovered	0
Source of Release	3" Poly Transfer Line	Date and Hour of Occurrence	5/5/17	Date and Hour of Discovery	5/5/2017
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Olivia Yu NMOCD Hobbs, NM Jim Amos BLM		
By Whom?	Eric Garcia, Noble Permian LLC Contractor	Date and Hour	5/5/2017 @ 2:00 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED

By Olivia Yu at 8:40 am, May 10, 2017

Describe Cause of Problem and Remedial Action Taken.*

The pumper spotted a leak from the 3" poly P/W transfer line. The pump automatically turned off on low pressure which minimized the release. A crew was called out to repair the leak. The produced water quickly soaked into the ground and there wasn't enough time to call a vacuum truck to recover any of the release.

Describe Area Affected and Cleanup Action Taken.*

The release occurred approx. 500 feet west of the battery at GPS 32.795393 N -103.6460350 W.

The area is approx. 6,800 Square feet. Noble Permian will have the site evaluated and will present a remediation work plan to NMOCD and BLM for approval prior to any remediation work.

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: *Dave Dunlap*

Printed Name: DAVE DUNLAP

Approved by

Title: Prod Foreman

Approval Date: 5/10/2017

Expiration Date:

E-mail Address: ddunlap@chaptawilliams.com

Conditions of Approval:

Attached ☒

Date: 5-8-17

Phone: 575 390 2062

see attached directive

Appendix IX
Cardinal Lab Results



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

July 03, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: EILLIAMS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/30/17 16:35.

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

Celey D. Keene

Lab Director/Quality Manager



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:	06/30/2017	Sampling Date:	06/30/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	EILLIAMS BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOBLE		

Sample ID: E 15 (H701733-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	07/03/2017	ND	448	112	400	0.00	QM-07

Sample ID: E 25 (H701733-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	07/03/2017	ND	448	112	400	0.00	

Sample ID: E 35 (H701733-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	07/03/2017	ND	448	112	400	0.00	

Sample ID: E 45 (H701733-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	07/03/2017	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	06/30/2017	Sampling Date:	06/30/2017
Reported:	07/03/2017	Sampling Type:	Soil
Project Name:	ELLIAMS BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOBLE		

Sample ID: E 55 (H701733-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	07/03/2017	ND	448	112	400	0.00	

Sample ID: E 65 (H701733-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	07/03/2017	ND	448	112	400	0.00	

Sample ID: E 75 (H701733-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18400	16.0	07/03/2017	ND	448	112	400	0.00		

Sample ID: E 85 (H701733-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	07/03/2017	ND	448	112	400	0.00	

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*=Accredited Analyte

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Cele D. Keene

Cele D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **Republic Backhoe Service**
Project Manager: **Eric Garcia**
Address: **47 E Bickens Rd**
City: **Livingston**
Phone #: **575-310-31** State: **NM** Zip: **88240**
Project #: **C** Fax #: **575-396-1782**
Project Name: **Williams Battery** Project Owner: **Noble**
Project Location:
Sample Name: **Eric Garcia**
FOR LAB USE ONLY

BILL TO

P.O. #: _____
Company: **Noble**
Attn: _____
Address: _____
City: _____
State: _____ Zip: _____
Phone #: _____
Fax #: _____

Lab I.D. **#701733** Sample I.D. _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER
1	E15											
2	E35											
3	E35											
4	E45											
5	E55											
6	E65											
7	E75											
8	E85											

DATE TIME

DATE	TIME	ANALYSIS REQUEST
6/30	8:30	Chloride
6/30	8:35	
6/30	8:40	
6/30	8:45	
6/30	8:50	
6/30	9:00	
6/30	9:10	
6/30	9:15	

RECEIVED BY: **Eric Garcia** DATE: **6-30-17** TIME: **4:35**

DELIVERED BY: (Circle One) **UPS - BUS - OTHER**

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



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

July 10, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: ELLIAMS

Enclosed are the results of analyses for samples received by the laboratory on 07/07/17 15:55.

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

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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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



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Analytical Results For:

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

Received:	07/07/2017	Sampling Date:	07/06/2017
Reported:	07/10/2017	Sampling Type:	Soil
Project Name:	EILLIAMS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOBLE		

Sample ID: E3- 5 (H701762-01)

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	07/10/2017	ND	384	96.0	400	18.9	

Sample ID: E3- 10 (H701762-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/10/2017	ND	384	96.0	400	18.9	

Sample ID: E3- 15 (H701762-03)

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	07/10/2017	ND	384	96.0	400	18.9	

Sample ID: E3- 20 (H701762-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/10/2017	ND	384	96.0	400	18.9	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/07/2017
Reported: 07/10/2017
Project Name: ELLIAMS
Project Number: NONE GIVEN
Project Location: NOBLE

Sampling Date: 07/06/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: E2- 5 (H701762-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/10/2017	ND	384	96.0	400	18.9	

Sample ID: E2- 10 (H701762-06)

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	07/10/2017	ND	448	112	400	3.64	

Sample ID: E2- 15 (H701762-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/10/2017	ND	448	112	400	3.64	

Sample ID: E2- 20 (H701762-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/10/2017	ND	448	112	400	3.64	

Sample ID: E5- 5 (H701762-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/10/2017	ND	448	112	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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Project Number: NONE GIVEN
Project Location: NOBLE

Sampling Date: 07/06/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: E5- 10 (H701762-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/10/2017	ND	448	112	400	3.64	

Sample ID: E5- 15 (H701762-11)

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	07/10/2017	ND	448	112	400	3.64	

Sample ID: E5- 20 (H701762-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/10/2017	ND	448	112	400	3.64	

Sample ID: E8- 5 (H701762-13)

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	07/10/2017	ND	448	112	400	3.64	

Sample ID: E8- 15 (H701762-14)

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	07/10/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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Project Location: NOBLE

Sampling Date: 07/06/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: B 5 (H701762-15)

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	07/10/2017	ND	448	112	400	3.64	

Sample ID: B 15 (H701762-16)

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	07/10/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Republic Backhoe
Project Manager:

State: MN Zip: 55260

Fax #:

Project Owner: **Wobler Press**

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A declaration is required for any claims arising out of or based in connection with the use of the information provided in this document.

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Date: 7-7-17 Received By: 1

Time: 25 minutes

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changes. Please fax written changes to

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

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____
Fax Result: ☐ Yes ☐ No Add'l Fax #: _____
REMARKS: Jasmine bar 202 ychoc.com
Enigazic3@hotmail.com
Rush!!