

1001 Noble Energy Way
Houston, TX 77070

Tel: 281.872.3100
nblenergy.com



southwest royalties, inc.
a subsidiary of noble energy, inc.

APPROVED

By Olivia Yu at 12:46 pm, Dec 22, 2017

NMOCD approves of the delineation and proposed remediation for 1RP-4825. See email communication for stipulations.

December 1, 2017

Sent via email to Olivia.Yu@state.nm.us

NMOCD
Olivia Yu, Environmental Specialist
1625 N. French Drive
Hobbs, NM 88240

Dear Ms. Yu,

Southwest Royalties, Inc. respectfully submits the enclosed Release Characterization Report and Remediation Work Plan for release site 1RP-4825.

Should you have any questions or concerns, please contact me at 281-874-6072 or jonathan.pennington@nblenergy.com.

Sincerely,

Jonathan Pennington
Environmental Coordinator
Jonathan.Pennington@nblenergy.com

CC: Al Garcia, Noble Energy

:Enclosure

REPUBLIC BACKHOE SERVICE LLC

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

December 1, 2017

Dear Olivia Yu,

Subject: Spill Summary and Remediation Work Plan

Location: Wyatt/Phillips Battery
Company: Southwest Royalties Inc.

Southwest Royalties Inc. has contracted Republic Backhoe Service LLC ("Republic") to perform site assessment and remediation services at the above referenced location. The results of the spill summary and proposed remediation activities are outlined below.

Incident Date

August 15, 2017

Incident Description

On August 15, 2017 the pumper turned on the transfer pump at the Eilliams Battery then noticed the release at the 3-inch poly transfer line adjacent to the Wyatt Phillips Battery. The pumper then turned off the transfer pump and put a clamp on the transfer line. The produced water soaked into the ground before a vacuum truck could make it to the site to recover any fluids. Approximately 8 barrels of produced water were released. On August 16, 2017 a crew was called out to repair the transfer line. On October 2, 2017 Southwest Royalties Inc., replaced approximately 7,000 feet of transfer line from the Eilliams Battery to the injection well. The C-141 form was received by NMOCD District I on September 27, 2017 (See Appendix I).

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

Phone Number: (575) 631-0131

Email Ericgarcia62@hotmail.com

Background Information

The Wyatt Phillips battery is located approximately 9 miles west of Buckeye, New Mexico and 7.5 miles south east of Maljamar, NM. The legal location for the Battery is Unit C Section 34 Township 17 South and Range 33 East in Lea County, New Mexico. The spill site lies east of the Wyatt Phillips Battery location with the GPS Coordinates as follows: Latitude: 32.797030 North Longitude: -103.652007 West. (See Site Map attached in Appendix II).

The Wyatt Phillips Spill Site is located less than ½ mile east from the Mescalero Ridge (Caprock Escarpment). 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.

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 water well database there are no water wells within a mile radius. The same search illustrates that at a radius of 4,000 meters from the spill site the average depth to water is incorrectly 132 ft. The ground water data in Appendix III shows that the average depth to water is 132 feet but this is due to Water Well L-02687 having no depth to water value thus decreasing the average depth to water to 132 feet. When Water Well L-02687 (L-02687 is at a distance of 2.48 miles) is omitted from the average, the average depth to water at a radius of 4,000 meters from the spill site is 200 ft. Furthermore when the radius is decreased to 2 miles (3,219.5 meters) from the spill site the average depth to water increases to approximately 220 ft.

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: >200' (50'-99')	0
Wellhead Protection Area: > 1000'	0
Distance to Surface Water Body: > 1000'	0

Actions Taken

On October 11, 2017 Republic began to delineate the Wyatt Phillips spill Site. Big Guns Drilling Inc was contracted to drill the bore holes. A total of two bore holes were drilled at the spill site. Borehole A was drilled to 20' and Borehole B was drilled to 18'. On October 13, 2017 a backhoe was used to dig trenches to finish delineating the site. All soil samples were collected by Republic Backhoe Service LLC personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Labs in Hobbs, NM for analysis. The samples were analyzed per Method SM4500C1-B, BTEX 8021B, and TPH 8015M.

Laboratory Results

See Appendix V for Site Sample Points.

Sample Date	Date Analyzed	Sample ID	Depth (feet)	Chlorides (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)
10/11/2017	10/19/2017	A-1	1	3920	<.300	<10.0
10/11/2017	10/19/2017	A-3	3	4320	<.300	<10.0
10/11/2017	10/19/2017	A-7	7	8530	<.300	<10.0
10/11/2017	10/19/2017	A-10	10	304	-	-
10/11/2017	10/19/2017	A-20	20	64	-	-
10/11/2017	10/19/2017	B-2	2	3160	<.300	<10.0
10/11/2017	10/19/2017	B-4	4	6880	<.300	<10.0
10/11/2017	10/19/2017	B-6	6	4160	-	-
10/11/2017	10/19/2017	B-8	8	64	-	-
10/11/2017	10/19/2017	B-18	18	32	-	-
10/11/2017	10/19/2017	C-6	6	2080	<.300	<10.0
10/11/2017	10/19/2017	C-8	8	1760	-	-
10/11/2017	10/19/2017	C-10	10	48	-	-
10/11/2017	10/19/2017	C-15	15	64	-	-
10/13/2017	10/23/2017	D-1	.25	320	<.300	22.6
10/13/2017	10/23/2017	D-2	2	304	<.300	<10.0
10/13/2017	10/23/2017	E-S	.25	32	<.300	<10.0
10/13/2017	10/23/2017	E-1	1	96	<.300	<10.0
10/13/2017	10/23/2017	F-S	.25	16	<.300	<10.0
10/13/2017	10/23/2017	F-1	1	112	<.300	<10.0
10/13/2017	10/23/2017	G-1	.25	416	<.300	<10.0
10/13/2017	10/23/2017	G-3	3	3600	<.300	<10.0
10/13/2017	10/23/2017	H-S	.25	1520	<.300	<10.0
10/13/2017	10/23/2017	H-1	1	384	<.300	<10.0
10/13/2017	10/23/2017	I-1	.25	576	<.300	<10.0
10/13/2017	10/23/2017	I-2	2	2160	<.300	<10.0
10/13/2017	10/23/2017	J-1	1	16	<.300	<10.0
10/13/2017	10/23/2017	J-2	2	16	<.300	<10.0
10/13/2017	10/23/2017	J-6	6	64	<.300	<10.0

Proposal

According to the groundwater data, the release poses little threat to groundwater contamination in the area. The depth to ground water in the area is greater than 200' bgs. The Site Delineation concluded that there are no issues with TPH or BTEX. Chloride contamination is the only issue at the site. Also, sample results indicate that chloride concentrations in soil are below NMOCD permissible levels at less than 10' bgs. Southwest Royalties, Inc. respectfully requests that NMOCD will consider the following remediation plan.

The portions of the site with chloride concentrations in excess of the NMOCD cleanup standard of 600 mg/kg chloride will be excavated to a depth of 4' (See Appendix VI for approximate excavation extents). Please note that the map in Appendix VI is an approximation of the excavation site. The horizontal extent to the North, East, and South of the spill will be determined during the excavation process at the site. The western extent of the excavation will terminate at the battery fire wall if chloride concentrations below 600 mg/kg are not observed east of the battery firewall. It would be unsafe to excavate west of the eastern firewall of the battery. The weight of the tanks at the battery, along with unpredictable rainfalls and wind, will increase the risk of cave-ins if excavation takes place within 10' of the tanks at the battery. After the spill site is excavated to a depth of 4', the excavated walls will be tested to insure horizontal delineation. The samples will be collected and taken to Cardinal Labs for confirmation. Then a 20 mil liner will be installed at 4' to prevent vertical migration of the contaminants that remain below the liner.

The excavated soil will be hauled to R360 disposal facility, an NMOCD approved disposal. All backfill material will be hauled in from a clean fill source.

NMOCD will be notified within 24 hours of all sampling.

Then the area will be seeded 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 VII)

Seeding Rate/ acre: 20 lbs/acre

Timing of Dispersal: Late March 2018 (may change)

Method of Dispersal: First, the area will be disced. Second, the seed will be mechanically broadcasted. Third, the disc will run 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
C-141 Form

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Southwest Royalties, Inc.	Contact: Jonathan Pennington
Address: 1001 Noble Energy Way	Telephone No.: 281-874-6072
Facility Name: Wyatt Philips Battery	Facility Type: 3-inch Transfer Line
Surface Owner: Caviness Cattle Acct.	Mineral Owner: BLM
	API No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	34	17S	33E	500	N	2300	W	Lea

Latitude 32.797030 Longitude -103.652007 NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 8 Barrel	Volume Recovered: 0 Barrels
Source of Release: 3-inch Transfer Line	Date and Hour of Occurrence: 8/15/17 11:30 AM	Date and Hour of Discovery: 8/15/17 11:30 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: N/A	
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 7:22 am, Sep 27, 2017

Describe Cause of Problem and Remedial Action Taken.* Pumper turned on the transfer pump at the Williams battery and noticed the release at the transfer line adjacent to the Wyatt Philips battery. The pumper turned off the transfer pump and put a clamp on the transfer line. The produced water soaked into the ground before a vacuum truck could make it to the site to recover any fluids. A crew was called out to repair the 3-inch transfer line on 08/16/17.

Describe Area Affected and Cleanup Action Taken.*

Preliminary estimates indicate that the affected area is approximately 14,700 square feet. Southwest Royalties, Inc. will evaluate the site according to NMOCD Guidelines and present a work plan to NMOCD 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.

Signature: <i>Jonathan Pennington</i>	OIL CONSERVATION DIVISION	
Printed Name: Jonathan Pennington	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Coordinator	Approval Date: 9/27/2017	Expiration Date:
E-mail Address: Jonathan.Pennington@nobleenergy.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 09/26/2017 Phone: 281-874-6072		

* Attach Additional Sheets If Necessary

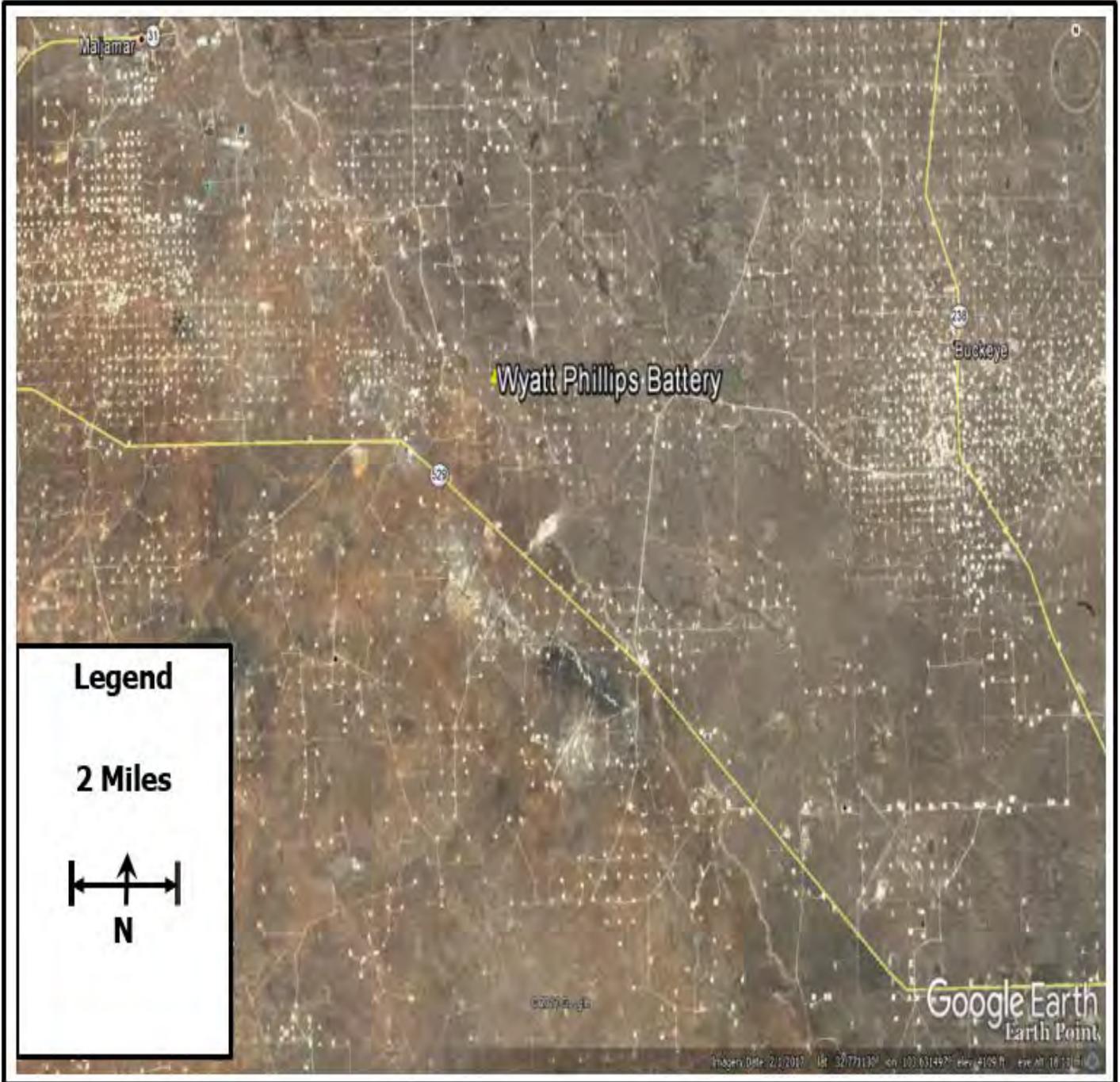
1RP-4825

nOY1727027595

pOY1727028782

fOY1727027247

Appendix II
Site Map



Southwest Royalties Inc.
 Wyatt Phillips Batt. Transfer Line Spill
 Unit Letter C, Sec. 34, T-17S, R-33E
 GPS: 32.797030N -103.652007W
 Lea County, NM

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

Appendix II
Site Map

Appendix III
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	POD Sub-basin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column	
L 04363		L	LE	1	2	3	35	17S	33E		627634	3628855*	1646	226	160	66	
L 03713		L	LE	3	4	1	28	17S	33E		624391	3630617*	2045	210			
L 14159 POD1		L	LE	3	1	3	28	17S	33E		624030	3630169	2206	298	165	133	
L 05055		L	LE	3	3	4	35	17S	33E		628042	3628259*	2304	233	150	83	
L 05096		L	LE	3	3	4	35	17S	33E		628042	3628259*	2304	233	150	83	
L 04649		L	LE	1	1	3	03	18S	33E		625644	3627213*	2427	100	45	55	
L 03133		L	LE	3	1	3	23	17S	33E		627188	3631868*	2504	230			
L 13049 POD1		L	LE	2	2	2	29	17S	33E		623782	3631207*	2876	244	204	40	
CP 00758 POD1		CP	LE				3	04	18S	33E	624345	3626886*	3251	250			
CP 00072 POD4		CP	LE	1	4	2	10	18S	33E		626865	3626028*	3626	70			
L 09891		L	LE				4	4	16	17S	33E	625264	3633144*	3669	190		
CP 01417 POD1		CP	LE					11	18S	33E	627036	3625738	3946	120	54	66	
L 02687		L	LE	2	2	36	17S	33E			630137	3629598*	3979				

Average Depth to Water: **132 feet**

Minimum Depth: **45 feet**

Maximum Depth: **204 feet**

Record Count: 13

UTM NAD83 Radius Search (in meters):

Easting (X): 626157.68

Northing (Y): 3629585

Radius: 4000

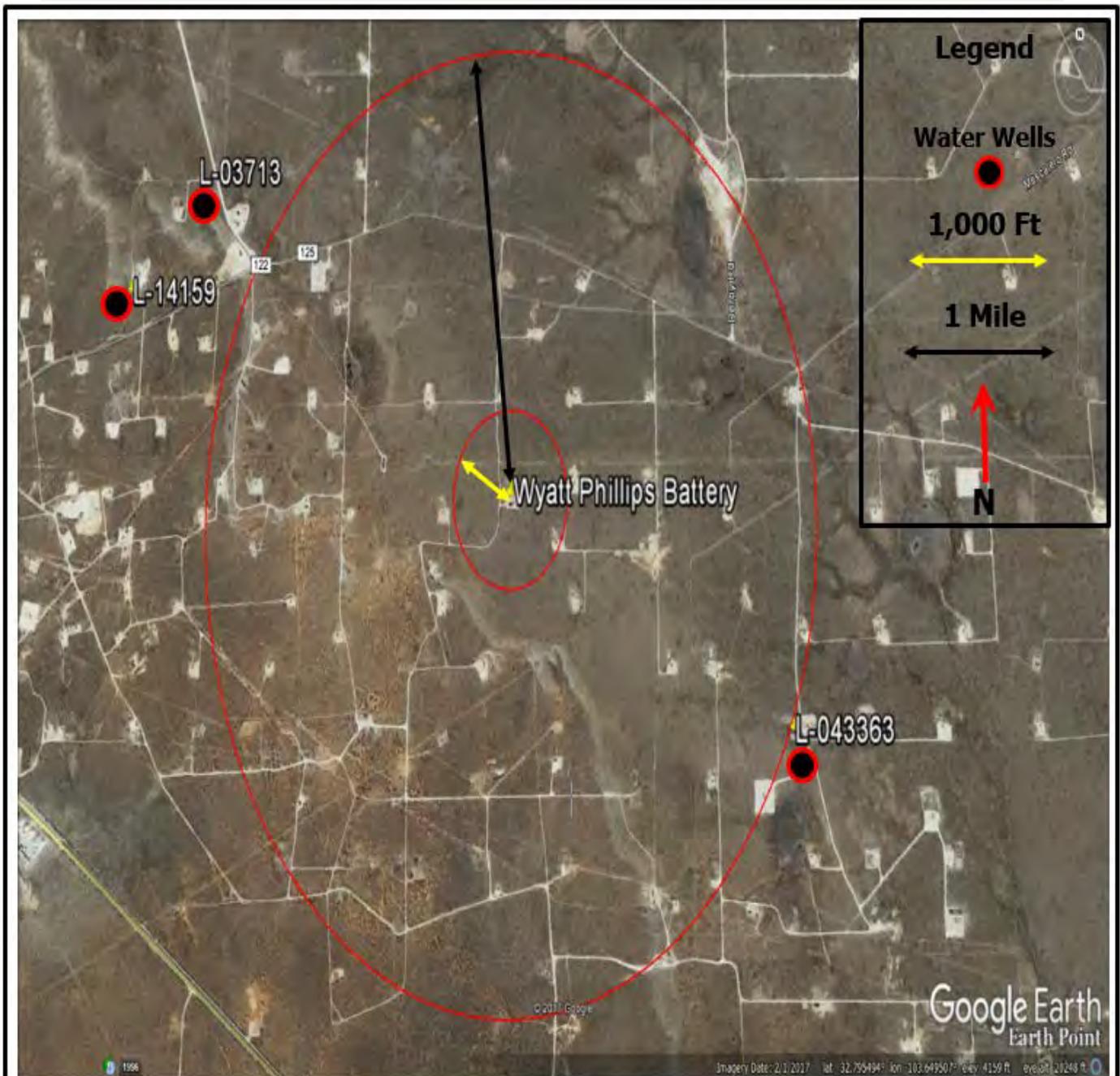
*UTM location was derived from PLSS - see Help

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

10/23/17 3:54 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix IV
Water Wells Map

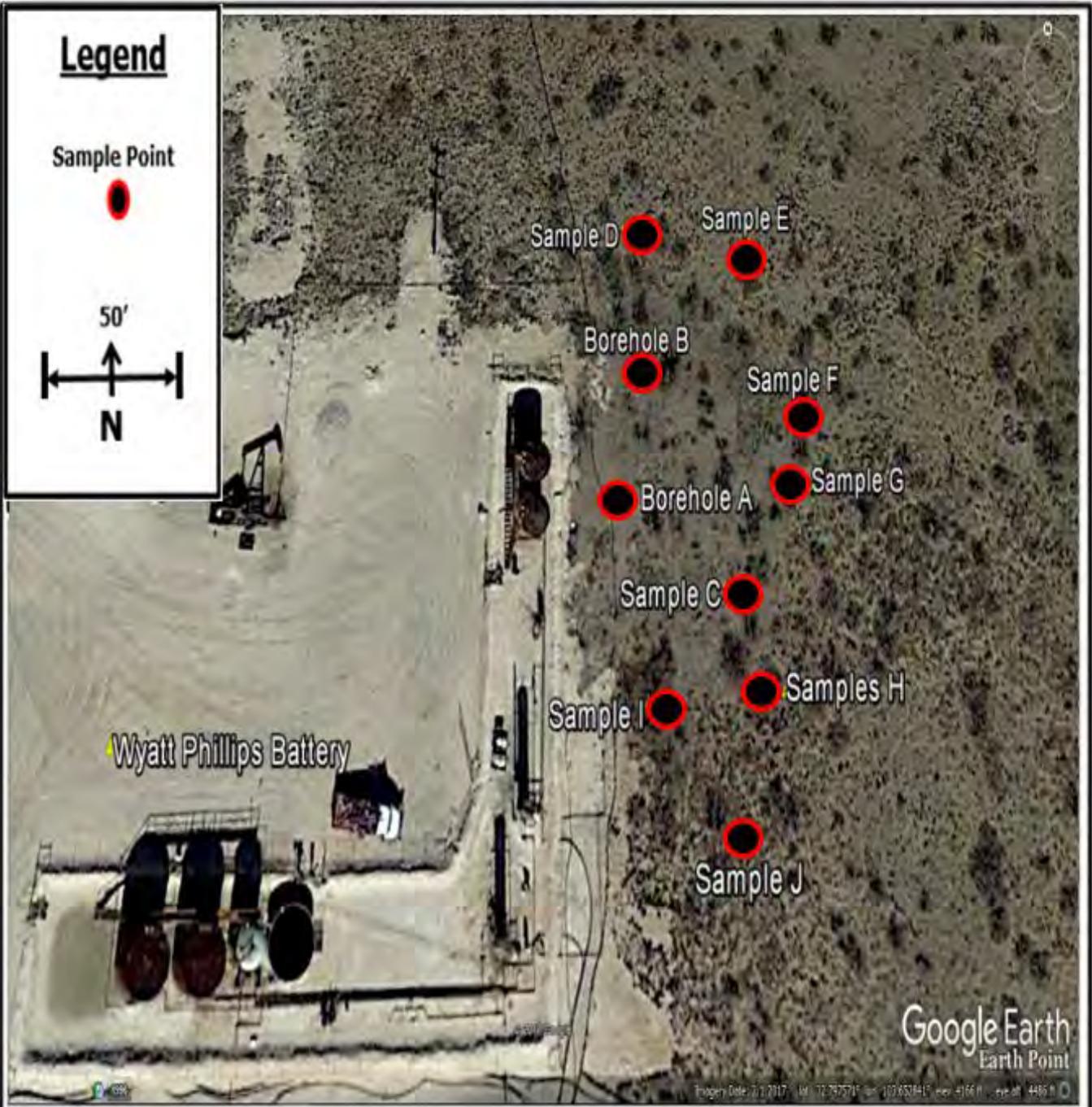


Southwest Royalties Inc.
 Wyatt Phillips Batt. Transfer Line Spill
 Unit Letter C, Sec. 34, T-17S, R-33E
 GPS: 32.797030N -103.652007W
 Lea County, NM

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

Appendix IV
 Fresh Water Wells

Appendix V
Sample Map



Southwest Royalties Inc.
 Wyatt Phillips Batt. Transfer Line Spill
 Unit Letter C, Sec. 34, T-17S, R-33E
 GPS: 32.797030N -103.652007W
 Lea County, NM

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

Appendix V
 Sample Points

Appendix VI
Excavation Map



Southwest Royalties Inc.
 Wyatt Phillips Batt Transfer Line Spill
 Unit Letter C, Sec. 34, T17S, R33E
 GPS: 32.797030N, -103.652007W
 Lea County, NM

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

Appendix XI
Excavation Map
 4' Excavation- 

Appendix VII
Seed Mixture

Bamert Seed Company Inc.

1897 CR 1813 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
Gramma, Blue (Bouteloua gracilis)	19.49%	94.00%	0.00%	0.00%	NM
Gramma, 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
Cardinal Lab Results



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

October 19, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 12:45.

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/12/2017
 Reported: 10/19/2017
 Project Name: WYATT PHILIPS
 Project Number: BATTERY
 Project Location: NOT GIVEN

 Sampling Date: 10/11/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A-1 (H702763-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59		
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87		
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234		
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359		
Total BTEX	<0.300	0.300	10/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	3920	16.0	10/16/2017	ND	432	108	400	7.14		

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	10/16/2017	ND	192	96.2	200	3.71		
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52		
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND						

Surrogate: 1-Chlorooctane 80.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.1 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/12/2017
 Reported: 10/19/2017
 Project Name: WYATT PHILIPS
 Project Number: BATTERY
 Project Location: NOT GIVEN

 Sampling Date: 10/11/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A-3 (H702763-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	10/16/2017	ND	432	108	400	7.14		

Sample ID: A-7 (H702763-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8530	16.0	10/16/2017	ND	432	108	400	7.14		

Sample ID: A-10 (H702763-04)

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	10/16/2017	ND	432	108	400	0.00		

Sample ID: A-20 (H702763-05)

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	10/16/2017	ND	432	108	400	0.00		

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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



Celey 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 Dickens Rd
 City: Lovington State: NM Zip: 88360

Phone #: 575-263-0131 Fax #:
 Project Owner: Noble

Project Name: Wyatt Phillips Battery

Project Location: Eric Garcia

Sampler Name: Eric Garcia

FOR LAB USE ONLY

BILL TO

P.O. #: Noble (Pennington)

Company: Noble (Pennington)
 Address: 1001 Noble way
 City: Houston State: TX Zip:

Phone #:
 Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER				
H702763	A-1	C	6						10/11/17	8:40	Chloride		
	A-3	C	6						10/11/17	8:55	TPH	hold	
	A-7	C	6						10/11/17	9:15	BTEX	hold	
	A-10	C	6						10/11/17	9:30		hold	
	A-20	C	6						10/11/17	9:45		hold	

PLEASE NOTE: Laboratory and Designer. Cardinal Laboratory and Designer shall be responsible for any errors arising from the collection of samples or the analysis of samples. The user of this form is responsible for the accuracy of the information provided. The user of this form is responsible for the accuracy of the information provided. The user of this form is responsible for the accuracy of the information provided.

Reinquisitioned By: Jasmine Barr

Date: 10/11/17

Received By: Jasmine Barr

Phone Result: Yes No Add'l Phone #
 Fax Result: Yes No Add'l Fax #
 REMARKS: Jasmine Barr 300@yahoo.com

Delivered By: (Circle One) 2.82
 Sampler - UPS - Bus - Other: Inspected 3.052

Sample Condition: Cool Intact
 No Yes No

CHECKED BY: JTBH

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



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

October 19, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 12:45.

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/12/2017
 Reported: 10/19/2017
 Project Name: WYATT PHILIPS
 Project Number: BATTERY
 Project Location: NOT GIVEN

 Sampling Date: 10/11/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B-2 (H702764-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59		
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87		
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234		
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359		
Total BTEX	<0.300	0.300	10/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	3160	16.0	10/16/2017	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	10/16/2017	ND	192	96.2	200	3.71		
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52		
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND						

Surrogate: 1-Chlorooctane 83.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.3 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



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: 10/12/2017
Reported: 10/19/2017
Project Name: WYATT PHILIPS
Project Number: BATTERY
Project Location: NOT GIVEN

Sampling Date: 10/11/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-4 (H702764-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	10/16/2017	ND	432	108	400	0.00		

Sample ID: B-6 (H702764-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	10/16/2017	ND	432	108	400	0.00		

Sample ID: B-8 (H702764-04)

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	10/16/2017	ND	432	108	400	0.00		

Sample ID: B-18 (H702764-05)

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	10/16/2017	ND	432	108	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **Republic Backhoe Service** P.O. # **BILL TO** ANALYSIS REQUEST

Project Manager: **Lue Garcia** Company: **Noble**

Address: **47 E buena rd** Address: **1001 Noble way**

City: **Saugerton** State: **NM** Zip: **88360** City: **Houston**

Phone #: **575-631-0131** Fax #: State: **TX** Zip:

Project #: Project Owner: **Noble** Phone #: Fax #:

Project Location: **Wyatt Phillips Battery**

Sampler Name: **Lue Garcia**

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX	PRESERVATION	DATE	TIME	ANALYSIS REQUEST
		GI/RAB OR (C)OMP	# CONTAINERS					
H70274	B-3		6			10/11/17	13:35	Chloride
	B-4		6			10/11/17	13:45	BTEX
	B-5		6			10/11/17	1:00p	TPH
	B-6		6			10/11/17	1:30	hold
	B-8		6			10/11/17	1:40	hold

Relinquished By: **Jasmine Baro** Date: **10/11/17** Time: **13:45** Received By: **Jasmine Clarke**

Delivered By: (Circle One) **UPS** **2:88** Sample Condition: Cool Dry Other **3052** CHECKED BY: **JP-HS**

Phone Result: Yes No Add'l Phone #
 Fax Result: Yes No Add'l Fax #
 REMARKS: **Eric Garcia & I @hotmail.com pending results of 1**
Jasminebaro@yahoo.com



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

October 19, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 12:45.

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/12/2017
 Reported: 10/19/2017
 Project Name: WYATT PHILIPS
 Project Number: BATTERY
 Project Location: NOT GIVEN

 Sampling Date: 10/11/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: C-6 (H702765-01)

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	10/17/2017	ND	1.90	94.9	2.00	1.59		
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87		
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234		
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359		
Total BTEX	<0.300	0.300	10/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0% 71-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	10/16/2017	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	10/16/2017	ND	192	96.2	200	3.71		
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52		
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND						

Surrogate: 1-Chlorooctane 84.9% 38.3-164

Surrogate: 1-Chlorooctadecane 90.8% 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/12/2017
 Reported: 10/19/2017
 Project Name: WYATT PHILLIPS
 Project Number: BATTERY
 Project Location: NOT GIVEN

 Sampling Date: 10/11/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: C-8 (H702765-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	10/16/2017	ND	432	108	400	0.00		

Sample ID: C-10 (H702765-03)

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	10/16/2017	ND	432	108	400	0.00		

Sample ID: C-15 (H702765-04)

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	10/16/2017	ND	432	108	400	0.00		

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



101 East Merland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Republic Backhoe Service Project Manager: Eue Garcia Address: 47 E Dickens Rd City: Livingston State: UM Zip: 88460 Phone #: 575-631-0131 Fax #: _____ Project #: _____ Project Owner: Noble		P.O. #: _____ Company: Noble Attn: _____ Address: 1001 Noble way City: Houston State: TX Zip: _____ Phone #: _____ Fax #: _____	
Project Name: _____ Project Location: Wyatt Phillips Battery Sampler Name: Eue Garcia		BILL TO	
FOR LAB USE ONLY Lab I.D.: _____ Sample I.D.: _____		ANALYSIS REQUEST	
Matrix: _____ (G)RAB OR (C)OMP: _____ # CONTAINERS: _____ GROUNDWATER: _____ WASTEWATER: _____ SOIL: _____ OIL: _____ SLUDGE: _____ OTHER: _____		PRESERV: _____ ACID/BASE: _____ ICE / COOL: _____ OTHER: _____	
DATE: _____ TIME: _____ DATE: _____ TIME: _____ DATE: _____ TIME: _____ DATE: _____ TIME: _____		ANALYSIS: _____ ANALYSIS: _____ ANALYSIS: _____ ANALYSIS: _____	

Delivered By: (Circle One) **2.88**
 Sampler - UPS - Bus - Other: **Corrected 30SE**
 Requisitioned By: **Josmuie Brown** Date: **12/17/17** Time: **12:45**
 Received By: **Guiana Alvarez** Date: _____ Time: _____
 Checked By: _____
 Sample Condition: Cool Intact
 Pres: Yes No
 No: Yes No
 Initials: **JS**

Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: _____
 Add'l Fax #: _____
 REMARKS: **Eue Garcia @ hotmail.com**
josmunelbrown@euegarcia.com
Hold 2-4 TPH + BTEX
Pending results of



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

October 23, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/16/17 15:25.

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	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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: D-1 (H702799-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	320	16.0	10/20/2017	ND	432	108	400	3.64		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	22.6	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 75.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 72.5 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: D-2 (H702799-02)

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	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	304	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 77.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.7 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILLIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: E-S (H702799-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 82.4 % 28.3-164

Surrogate: 1-Chloroadecane 70.6 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: E-1 (H702799-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	96.0	16.0	10/20/2017	ND	416	104	400	3.77	

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	10/18/2017	ND	207	104	200	0.951	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					

Surrogate: 1-Chlorooctane 80.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.7 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F-S (H702799-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5% 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	16.0	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 74.9% 28.3-164

Surrogate: 1-Chlorooctadecane 72.6% 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F-1 (H702799-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 83.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 71.1 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Coley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: G-1 (H702799-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	416	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 78.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.7 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: G-3 (H702799-08)

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	10/19/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	3600	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	207	104	200	0.951		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 82.4 % 28.5-164

Surrogate: 1-Chlorooctadecane 83.4 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H-5 (H702799-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/20/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3% 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	1520	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 77.5% 28.3-164

Surrogate: 1-Chlorooctadecane 87.8% 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H-1 (H702799-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2017	ND	1.91	95.3	2.00	0.603		
Toluene*	<0.050	0.050	10/20/2017	ND	1.72	85.8	2.00	0.645		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.71	85.7	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.14	85.7	6.00	1.51		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	384	16.0	10/20/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GR0 C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 81.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.1 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: I-1 (H702799-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2017	ND	1.72	86.2	2.00	0.526		
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	576	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 72.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.0 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: I-2 (H702799-12)

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	10/20/2017	ND	1.72	86.2	2.00	0.526		
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2160	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 81.7 % 28.5-164

Surrogate: 1-Chlorooctadecane 88.8 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and coverage: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage, 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 service hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILLIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: J-1 (H702799-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2017	ND	1.72	86.2	2.00	0.526		
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	16.0	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 80.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.6 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2017
 Reported: 10/23/2017
 Project Name: WYATT PHILIPS
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: J-2 (H702799-14)

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	10/20/2017	ND	1.72	86.2	2.00	0.526		
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 80.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.4 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: J-6 (H702799-15)

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	10/20/2017	ND	1.72	86.2	2.00	0.526		
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02		
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27		
Total BTEX	<0.300	0.300	10/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	10/20/2017	ND	416	104	400	3.77		

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	10/18/2017	ND	188	94.0	200	0.494		
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307		
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND						

Surrogate: 1-Chlorooctane 80.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.7 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: Republic Backhoe Service LLC Project Manager: Eric Garcia Address: 43 E. Dickens City: Lovington, State: NM Zip: 88260 Phone #: 575-681-0121 Fax #:		P.O. #: Company: Noble Permin LLC Address: 1001 Noble way City: Horizon, State: TX Zip: 77070 Phone #: Fax #:	
Project #: Project Name: WYH/Philip Project Location: WYH/Philip Sampler Name: Eric Garcia		Project Owner: Summit Earths Noble	
Lab I.D.: H7037094 Sample I.D.: 0-1 0-2 0-3 1-1 2-1 3-1 4-1 5-1 6-1 7-1 8-1 9-1 10-1		MATRIX: (GYRAB OR C/OMP) # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE: FRICTION / COOL OTHER	
DATE: 10/13 TIME: 9:30 9:35 10:15 10:30 10:35 10:35 11:00 11:20		ANALYSIS REQUEST: TPH BTEX Chlord	
Requisitioned By: Jasmine Barr Date: 10/13 Time: 3:25 Received By: Holly Curran Date: Time:		CHECKED BY: HC Sample Condition: Cool <input checked="" type="checkbox"/> Moist <input type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/>	
Delivered By: (Circle One) UPS - Bus - Other: Sample: UPS - Bus - Other:		REMARKS: Jasmine Barr 30@yahoo.com jengarcia@natmail.com	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

2 of 2

Company Name: Republic Backhoe Service C Project Manager: Eric Garcia Address: 47 E. Dickens Rd City: Carriington State: NM Zip: 88260 Phone # 575-631-0131 Fax # Project # Project Name: Wulf Phillips Project Location: Wulf Phillips Sampler Name: Eric Garcia		P.O. # Company: Wade Permutic Attn: J. Pennington Address: 1001 Wade Campers City: Horseshoe State: TX Zip: 76070 Phone #: Fax #: ANALYSIS REQUEST	
Lab I.D. H702799 Sample I.D. 11 I-1 12 I-2 13 I-1 14 I-2 15 J-6	(GRAB OR C/COMP) # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER PRESERV ACID/BASE ICE / COOL OTHER:	DATE TIME 10/13 1:05 10/13 1:00 10/13 12:07 10/13 12:02 10/13 12:12	PH BTEX Chloride
Requisitioned By: Jasmine Barr Date: 10/14/17 Time: 3:25 Received By: Hobby Cardoso	Delivered By: (Circle One) UPS Sampler - UPS - Bus - Other:	Sample Condition Cool: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: HC	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone # Add'l Fax # REMARKS Jasmine barr 30@yahoo.com ericgarcia@eholme.com

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