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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nRM2012535502
District RP	
Facility ID	39379
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Development	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident #
Contact mailing address: 500 W Illinois Ave Suite 500, Midland TX, 79705	

Location of Release Source

Latitude 32.35624 Longitude -103.40881
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Winnebago CTB	Site Type: Tank Battery
Date Release Discovered: 4/24/2020	API# *30-025-46403*

Unit Letter	Section	Township	Range	County
N	30	22S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls)6	Volume Recovered (bbls)5
☒ Produced Water	Volume Released (bbls)54	Volume Recovered (bbls)50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe) H2S Scavenger	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A dump valve on the separator had stuck open overloading the Gunbarrel to the point where produced water and oil spilled from the top into lined containment. The fluid in the containment measured 30'x45' with an average 3" depth.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: _____ Date: 5/1/2020

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ *Field data*
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	39379
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☑ Description of remediation activities

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: for H. L Date: 11-30-20

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Environmental & Safety Solutions, Inc.

CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Development, Inc.
Winnebago CTB
Lea County, New Mexico
Unit Letter "N", Section 30, Township 22 South, Range 35 East
Latitude 32.35624º North, Longitude 103.40881º West
NMOCD Reference # NRH2012535502

Prepared For:

Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Prepared By:

Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, Texas 79711

October 2020

Wesley A. Desilets
Project Manager

Matthew Green, P.G.
Senior Project Manager

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FIGURES

TABLES

APPENDICES

INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Winnebago CTB. The legal description of the Release Site is Unit Letter "N", Section 30, Township 22 South, Range 35 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.35624º North and 103.40881º West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Confirmation Soil Sample Location Map.

On April 24, 2020, Centennial discovered that a release had occurred due to the dump valve on the separator being hung open. Approximately six (6) barrels of crude oil and fifty-four (54) barrels of produced water was released with five (5) barrels of crude oil and fifty (50) barrels of produced water recovered, resulting in a net loss of approximately one (1) barrel of crude oil and four (4) barrels of produced water. The majority of the release was contained within the lined containment. On May 1, 2020, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Winnebago CTB Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 322238103225201 located approximately two (2) miles northeast of the Release Site. The average depth to groundwater for USGS Well #: 322238103225201 should be encountered at approximately seventy-eight (78) feet below ground surface (bgs). Based on the NMOCD site classification system, ten (10) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, ten (10) points will be assigned to the Winnebago CTB Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 17 and June 18, 2020, prior to excavation activities a pressure washer was utilized to address the hydrocarbon staining within the lined containment. A vacuum truck recovered and disposed of the liquids within the containment.

From July 30 through August 3, 2020, Etech commenced excavation activities at the Release Site utilizing a backhoe and manual means. Excavated soil was stockpiled on site and remediated utilizing blending and aerating techniques with surrounding clean soil. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment. Etech, on behalf of Centennial, collected four (4) composite confirmation soil samples (Bottomhole-1 @ 1', Bottomhole-2 @ 1', Bottomhole-3 @ 6", and Bottomhole-4 @ 3") from the excavated area and four (4) composite horizontal confirmation soil samples (N Sidewall-1 @ 6", E Sidewall-1 @ 6", S Sidewall-1 @ 6", and W Sidewall-1 @ 6") from the sidewalls of the excavated area. Additionally, one (1) composite confirmation soil sample (Stockpile) was collected from the remediated stockpiled soil. Soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional remediation activities were necessary due to elevated TPH concentrations for the composite soil sample (Stockpile). Please reference Figure 2 for site details and soil sampling locations.

On August 28, 2020, following additional remediation activities, one (1) composite confirmation soil sample (Stockpile) was collected from the further remediated stockpiled soil. The sample was submitted to PBELAB for TPH analysis. Due to elevated TPH concentrations it was determined that the impacted stockpiled soil would require disposal.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVIES

On September 15, 2020, Etech transported the impacted stockpiled soil to the Sundance disposal facility in Lea County, NM for disposal.

On September 17, 2020, the excavated area was backfilled with non-impacted like soil from a local source and the site was contoured to fit the surrounding area.

SITE CLOSURE REQUEST

Based on the analytical results, Centennial requests NMOCD grant Site Closure Status to the Winnebago CTB incident number NRH2012535502.

LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar

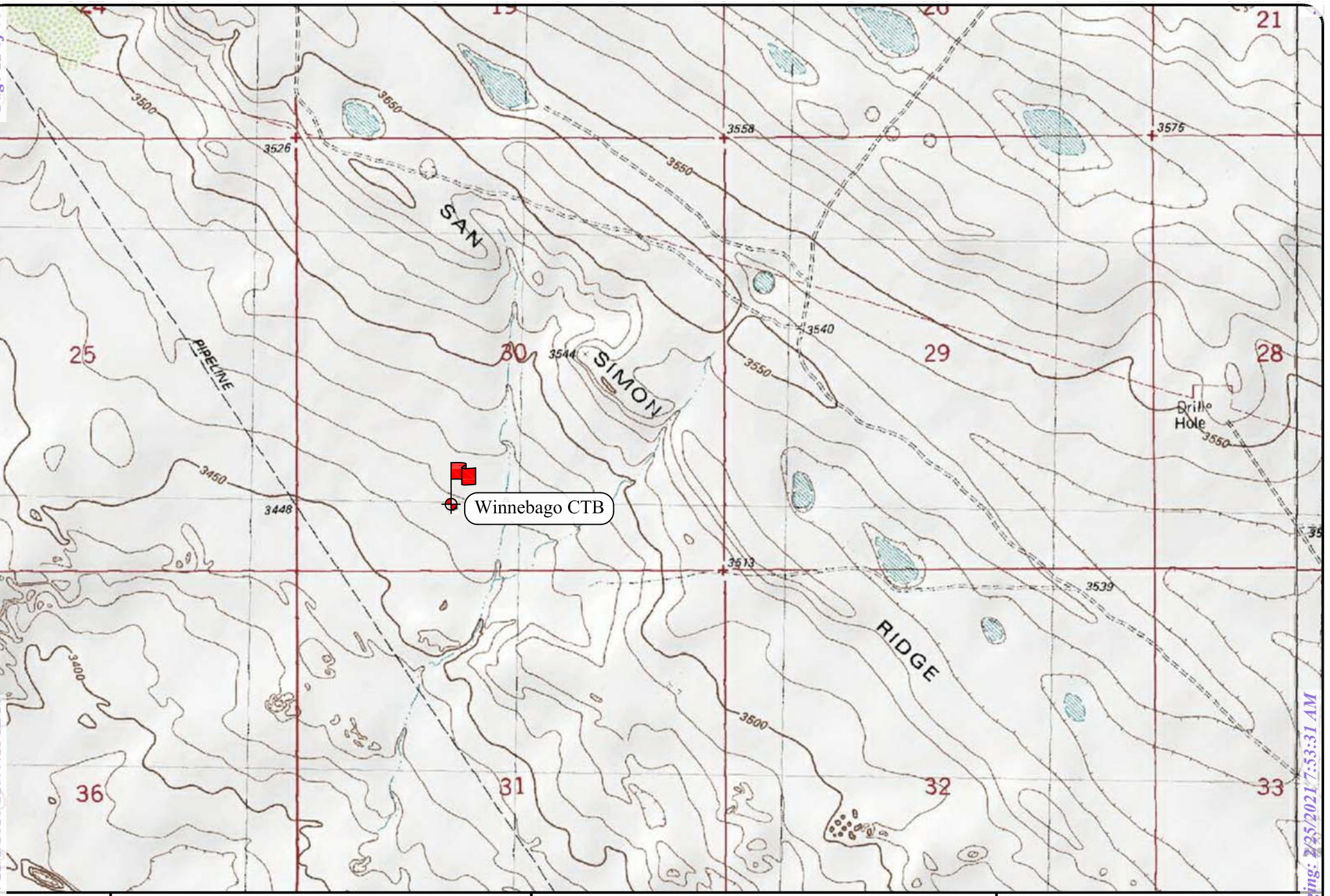
environmental consultants. Etech also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. This report has been prepared for the benefit of Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

DISTRIBUTION

Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1624 N. French Drive
Hobbs, New Mexico 88210

Copy 2: Jamon Hohensee
Centennial Resource Development, Inc.
500 W. Illinois Avenue Suite 500
Midland, TX 79701

Copy 3: Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, TX 79711



Winnebago CTB
Site Location Map
Centennial Resource Development, Inc.
Lea County, NM
N 32.35624°, W 103.40881
October 2020

Legend

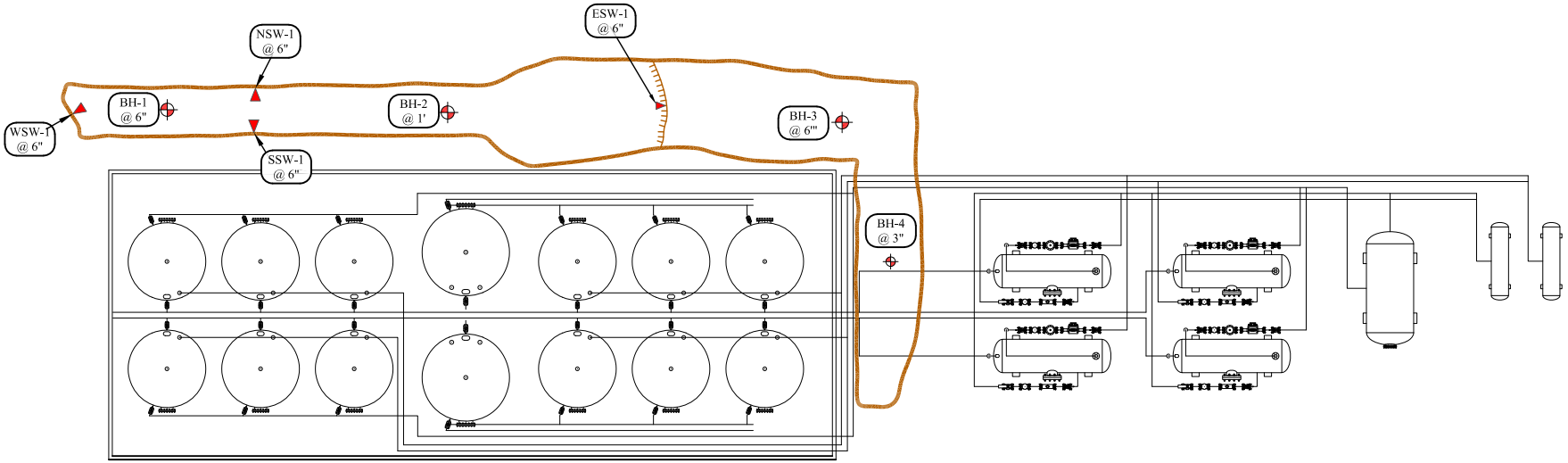
= Site Location

No Scale

eTECH Environmental & Safety Solutions, Inc

Job No.: 1126-12391

Figure 1



Winnebago CTB
Confirmation Soil Sample Location Map
Centennial Resource Development, Inc.
Lea County, NM
N 32.35624,°, W 103.40881°
October 2020

Legend

= Bottom Hole

= Side Wall

Contour Down Slope

Excavation Perimeter

Not to Scale

eTECH Environmental & Safety Solutions, Inc.

Job No.: 1126-12391

Figure 2

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

CENTENNIAL RESOURCE DEVELOPMENT, INC.

WINNEBAGO CTB RELEASE SITE

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.1
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{12}	TPH DRO C_{12}-C_{28}	TPH ORO C_{28}-C_{35}	TOTAL TPH C_6-C_{35}	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
Bottom Hole Sample Results													
Bottomhole-1 @ 1'	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.5
Bottomhole-2 @ 1'	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99.1
Bottomhole-3 @ 6"	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	98.8
Bottomhole-4 @ 3"	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	65.3	ND	65.3	191
Sidewall Sample Results													
N Sidewall-1 @ 6"	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	87.8
E Sidewall-1 @ 6"	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66.0
S Sidewall-1 @ 6"	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.9
W Sidewall-1 @ 6"	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.2
Stockpile Sample Results													
Stockpile	8/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	211	ND	**211**	463
Stockpile	8/28/2020	-	-	-	-	-	-	-	ND	113	ND	**113**	-

Bold ande Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit
ND - Analyte not Detected at or above the laboratory reporting limit

Project Name: *Winnebago CTB*
Project No: *12391*

Photographic Documentation

Photo No: **1.**	
Direction Taken: East	
Description: View of the release area.	

Photo No: **2.**	
Direction Taken: East	
Description: View of the release area.	

Project Name: *Winnebago CTB*
Project No: *12391*

Photographic Documentation

Photo No: **3.**	
Direction Taken: East	
Description: View of the cleaned containment.	

Photo No: **4.**	
Direction Taken: East	
Description: View of the remediated area.	

Project Name: *Winnebago CTB*
Project No: *12391*

Photographic Documentation

Photo No: **5.**	
Direction Taken: West	
Description: View of the remediated area.	

Photo No: **6.**	
Direction Taken: Southwest	
Description: View of the remediated area.	

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Certificate of Analysis Summary 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Winnebago 30 State COM 501H & 502H

Project Id: 12391
Contact: Matthew Green
Project Location: New Mexico

Date Received in Lab: Wed 08.05.2020 09:05
Report Date: 08.11.2020 15:32
Project Manager: Jessica Kramer

Analysis Requested		669122-001		669122-002		669122-003		669122-004		669122-005		669122-006	
	Field Id:	Bottomhole-1 @ 1'		Bottomhole-2 @ 1'		Bottomhole-3 @ 6"		Bottomhole-4 @ 3"		N Sidewall-1 @ 6"		E Sidewall-1 @ 6"	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.03.2020 13:00		08.03.2020 13:05		08.03.2020 13:10		08.03.2020 13:15		08.03.2020 13:20		08.03.2020 13:25	
BTEX by EPA 8021B	*Extracted:*	08.08.2020 14:30		08.08.2020 14:30		08.08.2020 14:30		08.08.2020 14:30		08.08.2020 14:30		08.08.2020 14:30	
	Analyzed:	08.09.2020 12:45		08.09.2020 13:06		08.09.2020 13:26		08.09.2020 13:47		08.09.2020 14:07		08.09.2020 14:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.00198	ND	0.00198	ND	0.00198	ND	0.00199	ND	0.00199	ND	0.00200
Toluene		ND	0.00198	ND	0.00198	ND	0.00198	ND	0.00199	ND	0.00199	ND	0.00200
Ethylbenzene		ND	0.00198	ND	0.00198	ND	0.00198	ND	0.00199	ND	0.00199	ND	0.00200
m,p-Xylenes		ND	0.00397	ND	0.00397	ND	0.00397	ND	0.00398	ND	0.00398	ND	0.00399
o-Xylene		ND	0.00198	ND	0.00198	ND	0.00198	ND	0.00199	ND	0.00199	ND	0.00200
Total Xylenes		ND	0.00198	ND	0.00198	ND	0.00198	ND	0.00199	ND	0.00199	ND	0.00200
Total BTEX		ND	0.00198	ND	0.00198	ND	0.00198	ND	0.00199	ND	0.00199	ND	0.00200
Chloride by EPA 300	*Extracted:*	08.05.2020 15:30		08.05.2020 15:30		08.05.2020 15:30		08.05.2020 15:30		08.05.2020 15:30		08.05.2020 15:30	
	Analyzed:	08.05.2020 17:27		08.05.2020 17:43		08.05.2020 17:48		08.05.2020 17:53		08.05.2020 17:59		08.05.2020 18:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		35.5	5.02	99.1	4.95	98.8	4.95	191	4.95	87.8	4.99	66.0	4.97
TPH by SW8015 Mod	*Extracted:*	08.05.2020 12:00		08.05.2020 12:00		08.05.2020 12:00		08.05.2020 12:00		08.05.2020 12:00		08.05.2020 12:00	
	Analyzed:	08.05.2020 15:18		08.05.2020 15:40		08.05.2020 16:02		08.05.2020 16:23		08.05.2020 17:07		08.05.2020 17:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		ND	50.0	ND	50.0	ND	49.9	ND	50.0	ND	50.0	ND	50.0
Diesel Range Organics (DRO)		ND	50.0	ND	50.0	ND	49.9	65.3	50.0	ND	50.0	ND	50.0
Motor Oil Range Hydrocarbons (MRO)		ND	50.0	ND	50.0	ND	49.9	ND	50.0	ND	50.0	ND	50.0
Total TPH		ND	50.0	ND	50.0	ND	49.9	65.3	50.0	ND	50.0	ND	50.0

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Winnebago 30 State COM 501H & 502H

Project Id: 12391
Contact: Matthew Green
Project Location: New Mexico

Date Received in Lab: Wed 08.05.2020 09:05
Report Date: 08.11.2020 15:32
Project Manager: Jessica Kramer

Analysis Requested		669122-007		669122-008		669122-009				
	Field Id:	S Sidewall-1 @ 6"		W Sidewall-1 @ 6"		Stockpile				
	Depth:									
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	08.03.2020 13:30		08.03.2020 13:35		08.03.2020 13:40				
BTEX by EPA 8021B	*Extracted:*	08.08.2020 14:30		08.08.2020 14:30		08.10.2020 11:00				
	Analyzed:	08.09.2020 14:48		08.09.2020 15:08		08.10.2020 23:11				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		ND	0.00200	ND	0.00199	ND	0.00199			
Toluene		ND	0.00200	ND	0.00199	ND	0.00199			
Ethylbenzene		ND	0.00200	ND	0.00199	ND	0.00199			
m,p-Xylenes		ND	0.00399	ND	0.00398	ND	0.00398			
o-Xylene		ND	0.00200	ND	0.00199	ND	0.00199			
Total Xylenes		ND	0.00200	ND	0.00199	ND	0.00199			
Total BTEX		ND	0.00200	ND	0.00199	ND	0.00199			
Chloride by EPA 300	*Extracted:*	08.05.2020 15:30		08.05.2020 15:30		08.05.2020 15:30				
	Analyzed:	08.05.2020 18:09		08.05.2020 18:25		08.05.2020 18:30				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		44.9 X	4.96	39.2	5.04	463	4.98			
TPH by SW8015 Mod	*Extracted:*	08.05.2020 12:00		08.05.2020 12:00		08.05.2020 12:00				
	Analyzed:	08.05.2020 17:51		08.05.2020 18:12		08.05.2020 18:34				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		ND	49.9	ND	49.8	ND	50.0			
Diesel Range Organics (DRO)		ND	49.9	ND	49.8	211	50.0			
Motor Oil Range Hydrocarbons (MRO)		ND	49.9	ND	49.8	ND	50.0			
Total TPH		ND	49.9	ND	49.8	211	50.0			

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 669122

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Winnebago 30 State COM 501H & 502H

12391

08.11.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.11.2020

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **669122**
Winnebago 30 State COM 501H & 502H
Project Address: New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669122. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669122 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottomhole-1 @ 1'	S	08.03.2020 13:00		669122-001
Bottomhole-2 @ 1'	S	08.03.2020 13:05		669122-002
Bottomhole-3 @ 6"	S	08.03.2020 13:10		669122-003
Bottomhole-4 @ 3"	S	08.03.2020 13:15		669122-004
N Sidewall-1 @ 6"	S	08.03.2020 13:20		669122-005
E Sidewall-1 @ 6"	S	08.03.2020 13:25		669122-006
S Sidewall-1 @ 6"	S	08.03.2020 13:30		669122-007
W Sidewall-1 @ 6"	S	08.03.2020 13:35		669122-008
Stockpile	S	08.03.2020 13:40		669122-009

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Winnebago 30 State COM 501H & 502H

Project ID: *12391*
Work Order Number(s): *669122*

Report Date: *08.11.2020*
Date Received: *08.05.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133696 Chloride by EPA 300

Lab Sample ID 669122-007 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 669122-001, -002, -003, -004, -005, -006, -007, -008, -009.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **Bottomhole-1 @ 1'** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-001 Date Collected: 08.03.2020 13:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**35.5**	5.02	mg/kg	08.05.2020 17:27		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 15:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	08.05.2020 15:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 15:18	U	1
Total TPH	PHC635	ND	50.0	mg/kg	08.05.2020 15:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	08.05.2020 15:18	
o-Terphenyl	84-15-1	88	%	70-130	08.05.2020 15:18	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**Bottomhole-1 @ 1'**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-001	Date Collected:	08.03.2020 13:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	08.09.2020 12:45	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	08.09.2020 12:45	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	08.09.2020 12:45	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	08.09.2020 12:45	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	08.09.2020 12:45	U	1
Total Xylenes	1330-20-7	ND	0.00198	mg/kg	08.09.2020 12:45	U	1
Total BTEX		ND	0.00198	mg/kg	08.09.2020 12:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.09.2020 12:45	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.09.2020 12:45	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **Bottomhole-2 @ 1'** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-002 Date Collected: 08.03.2020 13:05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**99.1**	4.95	mg/kg	08.05.2020 17:43		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 15:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	08.05.2020 15:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 15:40	U	1
Total TPH	PHC635	ND	50.0	mg/kg	08.05.2020 15:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	08.05.2020 15:40	
o-Terphenyl	84-15-1	90	%	70-130	08.05.2020 15:40	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**Bottomhole-2 @ 1'**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-002	Date Collected:	08.03.2020 13:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	08.09.2020 13:06	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	08.09.2020 13:06	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	08.09.2020 13:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	08.09.2020 13:06	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	08.09.2020 13:06	U	1
Total Xylenes	1330-20-7	ND	0.00198	mg/kg	08.09.2020 13:06	U	1
Total BTEX		ND	0.00198	mg/kg	08.09.2020 13:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.09.2020 13:06	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.09.2020 13:06	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **Bottomhole-3 @ 6"** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-003 Date Collected: 08.03.2020 13:10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**98.8**	4.95	mg/kg	08.05.2020 17:48		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	08.05.2020 16:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	08.05.2020 16:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	08.05.2020 16:02	U	1
Total TPH	PHC635	ND	49.9	mg/kg	08.05.2020 16:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	08.05.2020 16:02	
o-Terphenyl	84-15-1	91	%	70-130	08.05.2020 16:02	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**Bottomhole-3 @ 6"**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-003	Date Collected:	08.03.2020 13:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00198	mg/kg	08.09.2020 13:26	U	1
Toluene	108-88-3	ND	0.00198	mg/kg	08.09.2020 13:26	U	1
Ethylbenzene	100-41-4	ND	0.00198	mg/kg	08.09.2020 13:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00397	mg/kg	08.09.2020 13:26	U	1
o-Xylene	95-47-6	ND	0.00198	mg/kg	08.09.2020 13:26	U	1
Total Xylenes	1330-20-7	ND	0.00198	mg/kg	08.09.2020 13:26	U	1
Total BTEX		ND	0.00198	mg/kg	08.09.2020 13:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.09.2020 13:26	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.09.2020 13:26	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **Bottomhole-4 @ 3"** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-004 Date Collected: 08.03.2020 13:15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**191**	4.95	mg/kg	08.05.2020 17:53		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 16:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	**65.3**	50.0	mg/kg	08.05.2020 16:23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 16:23	U	1
Total TPH	PHC635	**65.3**	50.0	mg/kg	08.05.2020 16:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	08.05.2020 16:23	
o-Terphenyl	84-15-1	89	%	70-130	08.05.2020 16:23	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**Bottomhole-4 @ 3"**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-004	Date Collected:	08.03.2020 13:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	08.09.2020 13:47	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	08.09.2020 13:47	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	08.09.2020 13:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	08.09.2020 13:47	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	08.09.2020 13:47	U	1
Total Xylenes	1330-20-7	ND	0.00199	mg/kg	08.09.2020 13:47	U	1
Total BTEX		ND	0.00199	mg/kg	08.09.2020 13:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.09.2020 13:47	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.09.2020 13:47	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **N Sidewall-1 @ 6"** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-005 Date Collected: 08.03.2020 13:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**87.8**	4.99	mg/kg	08.05.2020 17:59		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 17:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	08.05.2020 17:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 17:07	U	1
Total TPH	PHC635	ND	50.0	mg/kg	08.05.2020 17:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	08.05.2020 17:07	
o-Terphenyl	84-15-1	92	%	70-130	08.05.2020 17:07	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**N Sidewall-1 @ 6"**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-005	Date Collected:	08.03.2020 13:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	08.09.2020 14:07	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	08.09.2020 14:07	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	08.09.2020 14:07	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	08.09.2020 14:07	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	08.09.2020 14:07	U	1
Total Xylenes	1330-20-7	ND	0.00199	mg/kg	08.09.2020 14:07	U	1
Total BTEX		ND	0.00199	mg/kg	08.09.2020 14:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.09.2020 14:07	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.09.2020 14:07	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **E Sidewall-1 @ 6"** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-006 Date Collected: 08.03.2020 13:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**66.0**	4.97	mg/kg	08.05.2020 18:04		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 17:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	50.0	mg/kg	08.05.2020 17:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 17:29	U	1
Total TPH	PHC635	ND	50.0	mg/kg	08.05.2020 17:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	08.05.2020 17:29	
o-Terphenyl	84-15-1	88	%	70-130	08.05.2020 17:29	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**E Sidewall-1 @ 6"**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-006	Date Collected:	08.03.2020 13:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	08.09.2020 14:28	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	08.09.2020 14:28	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	08.09.2020 14:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	08.09.2020 14:28	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	08.09.2020 14:28	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	08.09.2020 14:28	U	1
Total BTEX		ND	0.00200	mg/kg	08.09.2020 14:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.09.2020 14:28	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.09.2020 14:28	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **S Sidewall-1 @ 6"** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-007 Date Collected: 08.03.2020 13:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.9**	4.96	mg/kg	08.05.2020 18:09	X	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.9	mg/kg	08.05.2020 17:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.9	mg/kg	08.05.2020 17:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.9	mg/kg	08.05.2020 17:51	U	1
Total TPH	PHC635	ND	49.9	mg/kg	08.05.2020 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	08.05.2020 17:51	
o-Terphenyl	84-15-1	88	%	70-130	08.05.2020 17:51	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**S Sidewall-1 @ 6"**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-007	Date Collected:	08.03.2020 13:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00200	mg/kg	08.09.2020 14:48	U	1
Toluene	108-88-3	ND	0.00200	mg/kg	08.09.2020 14:48	U	1
Ethylbenzene	100-41-4	ND	0.00200	mg/kg	08.09.2020 14:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00399	mg/kg	08.09.2020 14:48	U	1
o-Xylene	95-47-6	ND	0.00200	mg/kg	08.09.2020 14:48	U	1
Total Xylenes	1330-20-7	ND	0.00200	mg/kg	08.09.2020 14:48	U	1
Total BTEX		ND	0.00200	mg/kg	08.09.2020 14:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.09.2020 14:48	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.09.2020 14:48	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **W Sidewall-1 @ 6"** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-008 Date Collected: 08.03.2020 13:35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39.2**	5.04	mg/kg	08.05.2020 18:25		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	49.8	mg/kg	08.05.2020 18:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	ND	49.8	mg/kg	08.05.2020 18:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	49.8	mg/kg	08.05.2020 18:12	U	1
Total TPH	PHC635	ND	49.8	mg/kg	08.05.2020 18:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	08.05.2020 18:12	
o-Terphenyl	84-15-1	87	%	70-130	08.05.2020 18:12	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**W Sidewall-1 @ 6"**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-008	Date Collected:	08.03.2020 13:35		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 14:30	Basis:	Wet Weight
Seq Number:	3133981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	08.09.2020 15:08	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	08.09.2020 15:08	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	08.09.2020 15:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	08.09.2020 15:08	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	08.09.2020 15:08	U	1
Total Xylenes	1330-20-7	ND	0.00199	mg/kg	08.09.2020 15:08	U	1
Total BTEX		ND	0.00199	mg/kg	08.09.2020 15:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.09.2020 15:08	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.09.2020 15:08	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id: **Stockpile** Matrix: Soil Date Received:08.05.2020 09:05

Lab Sample Id: 669122-009 Date Collected: 08.03.2020 13:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.05.2020 15:30 Basis: Wet Weight

Seq Number: 3133696

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**463**	4.98	mg/kg	08.05.2020 18:30		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.05.2020 12:00 Basis: Wet Weight

Seq Number: 3133741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.05.2020 18:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**211**	50.0	mg/kg	08.05.2020 18:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.05.2020 18:34	U	1
Total TPH	PHC635	**211**	50.0	mg/kg	08.05.2020 18:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	08.05.2020 18:34	
o-Terphenyl	84-15-1	93	%	70-130	08.05.2020 18:34	

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Certificate of Analytical Results 669122

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**Stockpile**	Matrix:	Soil	Date Received:	08.05.2020 09:05
Lab Sample Id:	669122-009	Date Collected:	08.03.2020 13:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 11:00	Basis:	Wet Weight
Seq Number:	3134109				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	ND	0.00199	mg/kg	08.10.2020 23:11	U	1
Toluene	108-88-3	ND	0.00199	mg/kg	08.10.2020 23:11	U	1
Ethylbenzene	100-41-4	ND	0.00199	mg/kg	08.10.2020 23:11	U	1
m,p-Xylenes	179601-23-1	ND	0.00398	mg/kg	08.10.2020 23:11	U	1
o-Xylene	95-47-6	ND	0.00199	mg/kg	08.10.2020 23:11	U	1
Total Xylenes	1330-20-7	ND	0.00199	mg/kg	08.10.2020 23:11	U	1
Total BTEX		ND	0.00199	mg/kg	08.10.2020 23:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.10.2020 23:11	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.10.2020 23:11	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 669122

Etech Environmental & Safety Solution, Inc

Winnebago 30 State COM 501H & 502H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133696 — Matrix: Solid — Date Prep: 08.05.2020
MB Sample Id: 7708786-1-BLK — LCS Sample Id: 7708786-1-BKS — LCSD Sample Id: 7708786-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	271	108	270	108	90-110	0	20	mg/kg	08.05.2020 16:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133696 — Matrix: Soil — Date Prep: 08.05.2020
Parent Sample Id: 669118-021 — MS Sample Id: 669118-021 S — MSD Sample Id: 669118-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	670	249	935	106	932	105	90-110	0	20	mg/kg	08.05.2020 17:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133696 — Matrix: Soil — Date Prep: 08.05.2020
Parent Sample Id: 669122-007 — MS Sample Id: 669122-007 S — MSD Sample Id: 669122-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	44.9	248	324	113	322	112	90-110	1	20	mg/kg	08.05.2020 18:14	X

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133741 — Matrix: Solid — Date Prep: 08.05.2020
MB Sample Id: 7708797-1-BLK — LCS Sample Id: 7708797-1-BKS — LCSD Sample Id: 7708797-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	896	90	883	88	70-130	1	20	mg/kg	08.05.2020 11:44	
Diesel Range Organics (DRO)	<50.0	1000	932	93	924	92	70-130	1	20	mg/kg	08.05.2020 11:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		105		108		70-130	%	08.05.2020 11:44
o-Terphenyl	100		101		101		70-130	%	08.05.2020 11:44

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133741 — Matrix: Solid — Date Prep: 08.05.2020
MB Sample Id: 7708797-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	08.05.2020 11:23	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 669122

Etech Environmental & Safety Solution, Inc

Winnebago 30 State COM 501H & 502H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133741 — Matrix: Soil — Date Prep: 08.05.2020
Parent Sample Id: 668977-004 — MS Sample Id: 668977-004 S — MSD Sample Id: 668977-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	826	83	847	85	70-130	3	20	mg/kg	08.05.2020 12:48	
Diesel Range Organics (DRO)	<49.9	997	856	86	866	87	70-130	1	20	mg/kg	08.05.2020 12:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		94		70-130	%	08.05.2020 12:48
o-Terphenyl	84		85		70-130	%	08.05.2020 12:48

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133981 — Matrix: Solid — Date Prep: 08.08.2020
MB Sample Id: 7709040-1-BLK — LCS Sample Id: 7709040-1-BKS — LCSD Sample Id: 7709040-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0756	76	0.0762	76	70-130	1	35	mg/kg	08.09.2020 09:42	
Toluene	<0.00200	0.100	0.0715	72	0.0796	80	70-130	11	35	mg/kg	08.09.2020 09:42	
Ethylbenzene	<0.00200	0.100	0.0781	78	0.0790	79	70-130	1	35	mg/kg	08.09.2020 09:42	
m,p-Xylenes	<0.00400	0.200	0.157	79	0.159	80	70-130	1	35	mg/kg	08.09.2020 09:42	
o-Xylene	<0.00200	0.100	0.0796	80	0.0806	81	70-130	1	35	mg/kg	08.09.2020 09:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		100		70-130	%	08.09.2020 09:42
4-Bromofluorobenzene	103		99		100		70-130	%	08.09.2020 09:42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3134109 — Matrix: Solid — Date Prep: 08.10.2020
MB Sample Id: 7709139-1-BLK — LCS Sample Id: 7709139-1-BKS — LCSD Sample Id: 7709139-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0868	87	0.0884	88	70-130	2	35	mg/kg	08.10.2020 13:54	
Toluene	<0.00200	0.100	0.0865	87	0.0886	89	70-130	2	35	mg/kg	08.10.2020 13:54	
Ethylbenzene	<0.00200	0.100	0.0910	91	0.0943	94	70-130	4	35	mg/kg	08.10.2020 13:54	
m,p-Xylenes	<0.00400	0.200	0.183	92	0.190	95	70-130	4	35	mg/kg	08.10.2020 13:54	
o-Xylene	<0.00200	0.100	0.0919	92	0.0955	96	70-130	4	35	mg/kg	08.10.2020 13:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		99		70-130	%	08.10.2020 13:54
4-Bromofluorobenzene	107		102		104		70-130	%	08.10.2020 13:54

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 669122

Etech Environmental & Safety Solution, Inc

Winnebago 30 State COM 501H & 502H

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3133981 Matrix: Soil Date Prep: 08.08.2020
Parent Sample Id: 669119-002 MS Sample Id: 669119-002 S MSD Sample Id: 669119-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0694	70	0.0711	71	70-130	2	35	mg/kg	08.09.2020 10:23	
Toluene	<0.00199	0.0996	0.0699	70	0.0738	74	70-130	5	35	mg/kg	08.09.2020 10:23	
Ethylbenzene	<0.00199	0.0996	0.0650	65	0.0707	71	70-130	8	35	mg/kg	08.09.2020 10:23	X
m,p-Xylenes	<0.00398	0.199	0.130	65	0.141	71	70-130	8	35	mg/kg	08.09.2020 10:23	X
o-Xylene	<0.00199	0.0996	0.0668	67	0.0723	72	70-130	8	35	mg/kg	08.09.2020 10:23	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		101		70-130	%	08.09.2020 10:23
4-Bromofluorobenzene	102		104		70-130	%	08.09.2020 10:23

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3134109 Matrix: Soil Date Prep: 08.10.2020
Parent Sample Id: 669427-015 MS Sample Id: 669427-015 S MSD Sample Id: 669427-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.106	106	0.124	125	70-130	16	35	mg/kg	08.10.2020 14:35	
Toluene	<0.00200	0.0998	0.117	117	0.144	145	70-130	21	35	mg/kg	08.10.2020 14:35	X
Ethylbenzene	<0.00200	0.0998	0.112	112	0.135	136	70-130	19	35	mg/kg	08.10.2020 14:35	X
m,p-Xylenes	<0.00399	0.200	0.193	97	0.224	113	70-130	15	35	mg/kg	08.10.2020 14:35	
o-Xylene	<0.00200	0.0998	0.112	112	0.134	135	70-130	18	35	mg/kg	08.10.2020 14:35	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	08.10.2020 14:35
4-Bromofluorobenzene	107		107		70-130	%	08.10.2020 14:35

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 0609172

www.xenco.com Page 1 of 1

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200	Email:	Matt@etechenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☒ Superfund ☐
State of Project:
Reporting: Level ☐ Level ☐ PST/US ☐ TRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	Winnebago 30 State COM 501H & 502H	Turn Around	
Project Number:	12391	CONTRACT ☐	
Project Location	New Mexico	Rush: ☐	
Sampler's Name:	Rich Yanez	Due Date:	
PO #:	12207		

SAMPLE RECEIPT			
Temperature (°C):	3.3/2.9	Temp Blank: Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
Bottomhole-1 @ 1'	S	8/3/2020	1300		1	x	x	x
Bottomhole-2 @ 1'	S	8/3/2020	1305		1	x	x	x
Bottomhole-3 @ 6"	S	8/3/2020	1310		1	x	x	x
Bottomhole-4 @ 3"	S	8/3/2020	1315		1	x	x	x
N Sidewall-1 @ 6"	S	8/3/2020	1320		1	x	x	x
E Sidewall-1 @ 6"	S	8/3/2020	1325		1	x	x	x
S Sidewall-1 @ 6"	S	8/3/2020	1330		1	x	x	x
W Sidewall-1 @ 6"	S	8/3/2020	1335		1	x	x	x
Stockpile	S	8/3/2020	1340		1	x	x	x
	S							

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3		8/5 0810	4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.05.2020 09.05.00 AM

Work Order #: 669122

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.9	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 08.05.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.06.2020
Jessica Kramer

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Certificate of Analysis Summary 671321

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Winnebago 30 State COM 501H & 502H

Project Id: 12391
Contact: Matthew Green
Project Location: New Mexico

Date Received in Lab: Fri 08.28.2020 15:40
Report Date: 08.31.2020 17:13
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	671321-001					
	Field Id:	Stockpile					
	Depth:						
	Matrix:	SOIL					
	Sampled:	08.28.2020 10:00					
TPH by SW8015 Mod	***Extracted:***	08.29.2020 10:00					
	Analyzed:	08.29.2020 18:03					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		ND	50.0				
Diesel Range Organics (DRO)		113	50.0				
Motor Oil Range Hydrocarbons (MRO)		ND	50.0				
Total TPH		113	50.0				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 671321

for

Etech Environmental & Safety Solution, Inc

Project Manager: Matthew Green

Winnebago 30 State COM 501H & 502H

12391

08.31.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.31.2020

Project Manager: **Matthew Green**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **671321**
Winnebago 30 State COM 501H & 502H
Project Address: New Mexico

Matthew Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 671321. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671321 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 671321

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile	S	08.28.2020 10:00		671321-001

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Winnebago 30 State COM 501H & 502H

Project ID: *12391*
Work Order Number(s): *671321*

Report Date: *08.31.2020*
Date Received: *08.28.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 671321

Etech Environmental & Safety Solution, Inc, Midland, TX

Winnebago 30 State COM 501H & 502H

Sample Id:	**Stockpile**	Matrix:	Soil	Date Received:	08.28.2020 15:40
Lab Sample Id:	671321-001	Date Collected:	08.28.2020 10:00		
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.29.2020 10:00	Basis:	Wet Weight
Seq Number:	3135959				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	ND	50.0	mg/kg	08.29.2020 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	**113**	50.0	mg/kg	08.29.2020 18:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	ND	50.0	mg/kg	08.29.2020 18:03	U	1
Total TPH	PHC635	**113**	50.0	mg/kg	08.29.2020 18:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	08.29.2020 18:03	
o-Terphenyl	84-15-1	114	%	70-130	08.29.2020 18:03	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 671321

Etech Environmental & Safety Solution, Inc

Winnebago 30 State COM 501H & 502H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135959 — Matrix: Solid — Date Prep: 08.29.2020
MB Sample Id: 7710472-1-BLK — LCS Sample Id: 7710472-1-BKS — LCSD Sample Id: 7710472-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	934	93	886	89	70-130	5	20	mg/kg	08.29.2020 11:14	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1010	101	70-130	12	20	mg/kg	08.29.2020 11:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	74		89		85		70-130	%	08.29.2020 11:14
o-Terphenyl	89		111		102		70-130	%	08.29.2020 11:14

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135959 — Matrix: Solid — Date Prep: 08.29.2020
MB Sample Id: 7710472-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	ND	mg/kg	08.29.2020 10:50	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135959 — Matrix: Soil — Date Prep: 08.29.2020
Parent Sample Id: 671219-001 — MS Sample Id: 671219-001 S — MSD Sample Id: 671219-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	969	97	1010	101	70-130	4	20	mg/kg	08.30.2020 10:58	
Diesel Range Organics (DRO)	<49.9	998	1210	121	1200	120	70-130	1	20	mg/kg	08.30.2020 10:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		111		70-130	%	08.30.2020 10:58
o-Terphenyl	124		125		70-130	%	08.30.2020 10:58

MS/MSD Percent Recovery — [D] = 100*(C-A) / B
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery — [D] = 100 * (C) / [B]
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Work Order No: 671321

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Project Manager:	Matt Green	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc	Company Name:	Centennial
Address:	PO Box 62228	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	432-563-2200 Email:	Matt@etechenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other: contract

Project Name:	*Winnebago 30 State COM 501H & 502H*	Turn Around	
Project Number:	12391	CONTRACT ☐	
Project Location	*New Mexico*	Rush: ☐	
Sampler's Name:	Wesley Desilets	Due Date:	
PO #:	492		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.9/1.5	Thermometer ID		
Received Intact:	(Yes) No	IR-8		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	1	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH 8015M	BTEX 8021B	Chlorides E300
Stockpile	S	8/28/2020	1000		1	x		

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

NORM TAT circle one : 7 day, **5 day**, Rush 3 day

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.28.20 15:40	2		
3			4		
5			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.28.2020 03.40.00 PM

Work Order #: 671321

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Allison Johnson Date: 08.28.2020

Checklist reviewed by: Jessica Kramer Date: 08.28.2020

Jessica Kramer

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	39379
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Development	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident #
Contact mailing address: 500 W Illinois Ave Suite 500, Midland TX, 79705	

Location of Release Source

Latitude 32.35624 Longitude -103.40881

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Winnebago CTB	Site Type: Tank Battery
Date Release Discovered: 4/24/2020	API# *30-025-46403*

Unit Letter	Section	Township	Range	County
N	30	22S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls)6	Volume Recovered (bbls)5
☒ Produced Water	Volume Released (bbls)54	Volume Recovered (bbls)50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe) H2S Scavenger	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A dump valve on the separator had stuck open overloading the Gunbarrel to the point where produced water and oil spilled from the top into lined containment. The fluid in the containment measured 30'x45' with an average 3" depth.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: _____ Date: 5/1/2020

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nRM2012535502
District RP	
Facility ID	39379
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Development	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident #
Contact mailing address: 500 W Illinois Ave Suite 500, Midland TX, 79705	

Location of Release Source

Latitude 32.35624 Longitude -103.40881

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Winnebago CTB	Site Type: Tank Battery
Date Release Discovered: 4/24/2020	API# *30-025-46403*

Unit Letter	Section	Township	Range	County
N	30	22S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls)6	Volume Recovered (bbls)5
☒ Produced Water	Volume Released (bbls)54	Volume Recovered (bbls)50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe) H2S Scavenger	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A dump valve on the separator had stuck open overloading the Gunbarrel to the point where produced water and oil spilled from the top into lined containment. The fluid in the containment measured 30'x45' with an average 3" depth.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: _____ Date: 5/1/2020

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	78 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ *Field data*
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: [signature] Date: 2-24-21

email: jamon.hohensee@cdevinc.com Telephone: 432 241 4283

OCD Only

Received by: Chad Hensley Date: 02/24/2021

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
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Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

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Printed Name: Jamon Hohense Title: Sr. Environmental Analyst

Signature: Jamon H Date: 2-24-21

email: jamon.hohense@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	39379
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☑ Description of remediation activities

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

Printed Name: Jamon Hohensee Title: Sr. Environmental Analyst

Signature: [signature] Date: 11-30-20

email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

OCD Only

Received by: Chad Hensley Date: 02/24/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: [signature] Date: 02/24/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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

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

CONDITIONS

Action 11360

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CENTENNIAL RESOURCE PRODUCTION	1001 17th Street, Suite 1800	Denver, CO80202	372165	11360	C-141

OCD Reviewer	Condition
chensley	None