**Received by OCD: 12/2/2021 12:41:24 PM** Form C-141 State of New Mexico

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Oil Conservation Division

	Page 1 of 6
Incident ID	nAPP2125030589
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?	<u>85 - 90</u> (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 <b>not</b> 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
- $\checkmark$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-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.

eceivea by OCD: 12/2/20	21 12:41:24 PM State of New Mexico		Page 2 d				
			Incident ID	nAPP2125030589			
age 4	Oil Conservation Divisior	1	District RP				
			Facility ID				
			Application ID				
public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Jacqui H	required to report and/or file certain release no ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a th of a C-141 report does not relieve the operator larris	OCD does not relieve the order of the order	e operator of liability sho ace water, human health pliance with any other feo ntal Coordinator	ould their operations have or the environment. In			
Signature: / محصد Signature: / محصد Signature: / محصد email: jacqui.harris@co		_ Date: <u>11.21.21</u> Telephone: <u>(575)7</u>					

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Oil Conservation Division

Incident ID	nAPP2125030589
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### 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: Jacqui Harris Title: Environmental Coordinator Signature: Jacque Acous \_\_\_\_\_ 11.21.21 Date: email: jacqui.harris@conocophillips.com Telephone: (575)745-1807 **OCD Only** Chad Hensley Date: 12/29/2021 Received by:

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:	12/29/2021
Printed Name:	Chad Hensley	Title:	Environmental Specialist Advanced

# Remediation Summary & Soil Closure Request

### COG Operating, LLC Merlin State Com 1

Lea County, New Mexico Unit Letter "N", Section 29, Township 21 South, Range 34 East Latitude 32.445588 North, Longitude 103.495157 West NMOCD Reference No. nAPP2125030589

Prepared By:

Etech Environmental & Safety Solutions, Inc. 2507 79th Street, Unit A Lubbock, Texas 79423

Ben J Arguijo

Joel W. Jowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

.

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### 1.0 **PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation* Summary & Soil Closure Request for the release site known as the Merlin State Com 1 (henceforth, "Site"). Details of the release are summarized below:

.atitude:	32.44	32.445588 Longitude: -103.495157									
		Provid	ed GPS are in WGS84 form	nat.							
Site Name:	Merlin	State Com 1	Site Type:		Tank Battery						
Date Release Disc	covered:	8/21/2021	API # (if appli	cable):	30-025-41590						
Unit Letter	Section	Township	Range	County							
"N"	29	218	34E	Lea							
urface Owner:		Federal Tribal	Private (Na								
X Crude Oil	Volum	e Released (bbls)	0.14	Volume Re	covered (bbls) 0						
Produced W	ater Volum	e Released (bbls)		Volume Re	Volume Recovered (bbls)						
		oncentration of total n the produced wate		Yes	No X N/A						
Condensate	Volum	e Released (bbls)		Volume Re	covered (bbls)						
Natural Gas	Volum	e Released (Mcf)		covered (Mcf)							
Other (descr	ribe) Volume	/Weight Released		Volume/Weight Recovered							
	caused by a m	vered due to the fire	•		esulted in a flare fire on the pad						
X The source o	f the release ha	s been stopped.									
X The impacted	l area has been	secured to protect hu	uman health and the e	environment.							
X Release mate	rials have been	contained via the use	e of berms or dikes, a	absorbent pad, o	r other containment devices						
		able materials have be			. 1						

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

### 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	85' - 9	90'
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes [	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

### **3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE**

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
85' - 90'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

### 4.0 INITIAL SITE ASSESSMENT

On August 30, 2021, Etech conducted an initial site assessment. During the initial site assessment, a hand-augered soil bore (V1) was advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the hand-augered soil bore, a field soil sample was collected and field-screened for the presence of volatile organic compounds utilizing visual/olfactory senses. Based on field observations and field test results, additional vertical delineation of impacted soil was required, but deemed impracticable without heavy equipment.

Etech submitted one (1) delineation soil sample (V1 @ Surface) to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results confirmed additional delineation and excavation of hydrocarbon-impacted soil was required.

### 5.0 **REMEDIATION ACTIVITIES SUMMARY**

On October 20, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On October 22, 2021, Etech collected six (6) confirmation soil samples (NW, EW, SW, WW, FL 1 @ 1', and FL 2 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below both the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory method detection limit (MDL) in soil sample NW to 824 mg/kg in soil sample FL 1 @ 1'.

On October 26, 2021, the excavation was further advanced in the areas characterized by soil samples WW, FL 1 @ 1', and FL 2 @ 1'. Etech collected three (3) confirmation soil samples (WWB, FL 1 @ 2', and FL 2 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 46 feet in length, 14 to 32 feet in width, and two (2) feet in depth. During the course of remediation activities, approximately 36 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. Approximately 36 cubic yards of locally sourced, non-impacted material was imported to the Site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Laboratory analytical reports are provided in Appendix B. General photographs of the Site are provided in Appendix C.

### 6.0 **RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on the production pad will be reseeded with an agency- and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the Site.

### 7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below both the NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Site.

### 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech 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 COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

### 9.0 **DISTRIBUTION**

#### COG Operating, LLC

600 West Illinois Avenue Midland, TX 79701

#### New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505* 

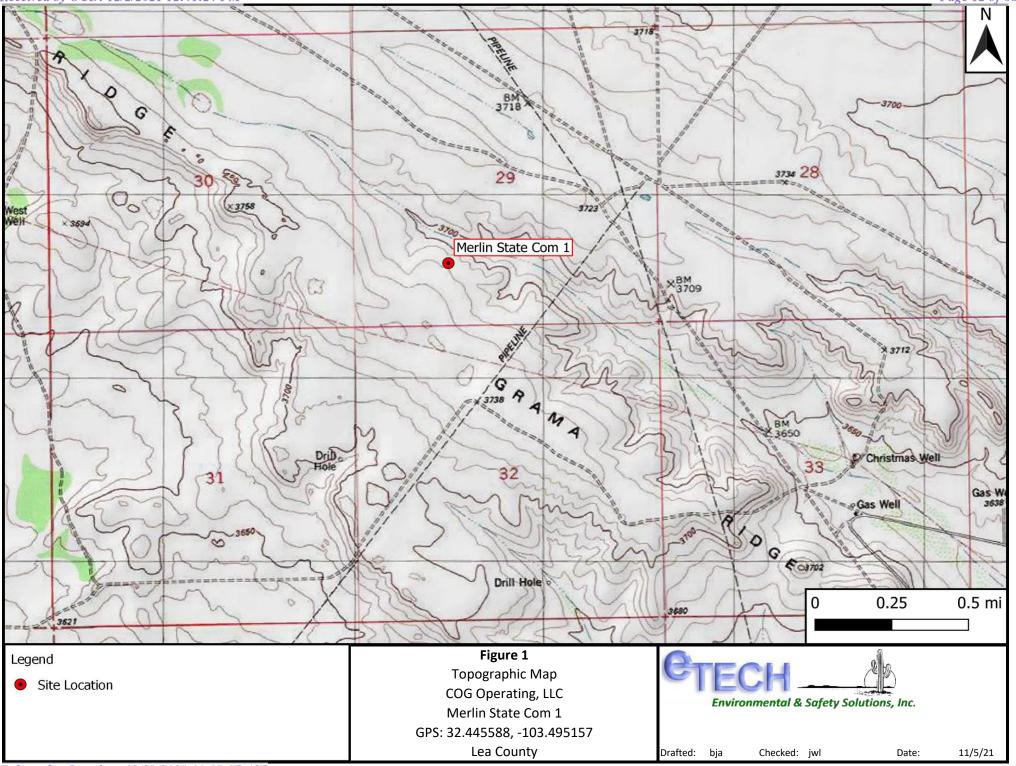
#### Hobbs Field Office

New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

# Figure 1 Topographic Map

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# Figure 2 Aerial Proximity Map

Legend       0       0.25       0.5 mi         • Ste Location       • 1% Annual Flood Chance       • 500 Foot Radius       Aerial Proximity Map         • Well - NMOSE       • Emergent/Forested Wetlands       • 1,000-FR Radius       COG Operating, LLC         • Well - Investigative/Monitor       • Medium/High Karst       • 0.5-Mi Radius       COG Operating, LLC         • Well - Investigative/Monitor       • Medium/High Karst       • 0.5-Mi Radius       COG Soperating, LLC         • Well - Investigative/Monitor       • Medium/High Karst       • 0.5-Mi Radius       COG Soperating, LLC         • Well - Investigative/Monitor       • Medium/High Karst       • 0.5-Mi Radius       COG Soperating, LLC         • Well - Investigative/Monitor       • Riverine       • 0.5-Mi Radius       • 0.5-Mi Radius	Blueberry SWD TMW-1 Blueberry SWD TMW-1 (22641103311201 CP-00600-PDD1	Image: Window State           Image:	CP-00583 CP-0057-PODI CP-01067-PODI CP-01067-PODI CP-01069-PODI CP-01068-PODI CP-01068-PODI CP-01068-PODI CP-00581-PODI CP-01068-PODI CP-00589-PODI CP-00589-PODI CP-00589-PODI CP-00589-PODI
<ul> <li>Site Location</li> <li>I% Annual Flood Chance</li> <li>Soo Foot Radius</li> <li>Medius - MROSE</li> <li>Emergent/Forested Wetlands</li> <li>I,000-Ft Radius</li> <li>COG Operating, LLC</li> <li>Melius - Medium/High Karst</li> <li>Potash Mine Workings</li> <li>Riverine</li> <li>Aerial Proximity Map</li> <li>COG Operating, LLC</li> <li>Merlin State Com 1</li> <li>GPS: 32.445588, -103.495157</li> </ul>			0 0.25 0.5 mi
	<ul> <li>Site Location</li> <li>Well - NMOSE</li> <li>Well - NMOSE</li> <li>Emergent/Forested Wetlands</li> <li>1,000-Ft Radius</li> <li>Well - USGS</li> <li>Freshwater Pond/Lake</li> <li>0.5-Mi Radius</li> <li>Well - Investigative/Monitor</li> <li>Medium/High Karst</li> </ul>	Aerial Proximity Map COG Operating, LLC Merlin State Com 1 GPS: 32.445588, -103.495157	

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## Figure 3 Site & Sample Location Map



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# Table 1Concentrations of BTEX, TPH & Chloride in Soil

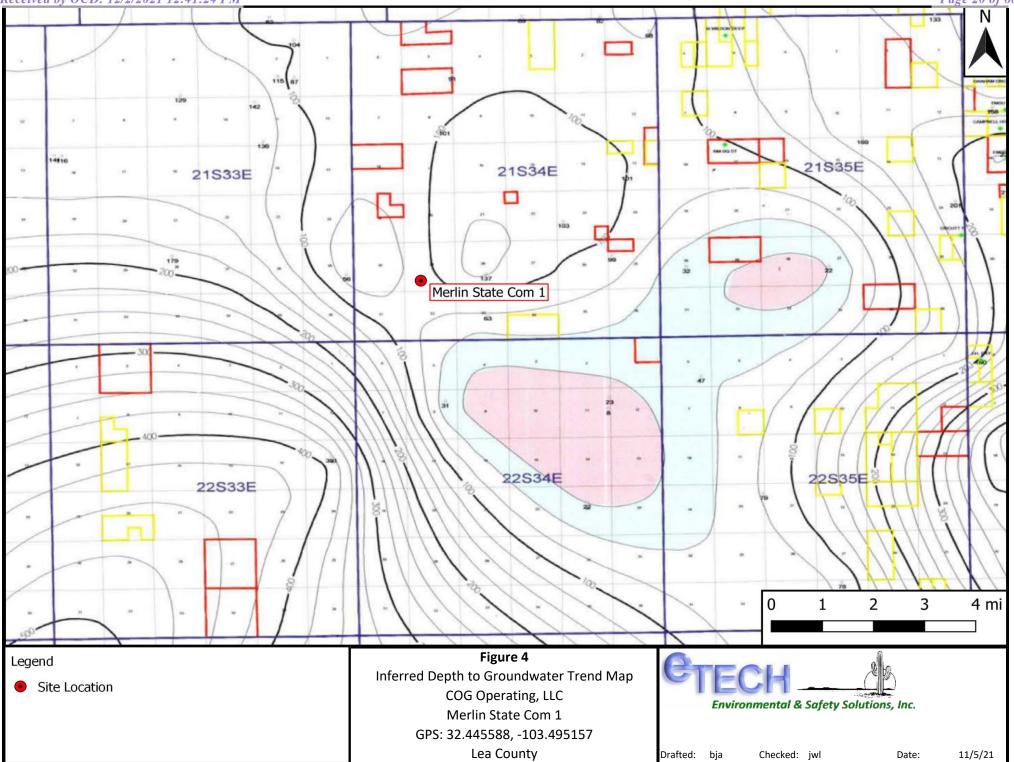
Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Merlin State Com 1 NMOCD Ref. #: nAPP2125030589											
NMOCD Closure Criteria         10         50         -         1,000         -         2,500         1											10,000
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 840	5 8021B		SW	<b>846 8015M</b>	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
V1 @ Surface	8/30/2021	0-0.25	Excavated	0.641	6.15	<50.0	10,400	10,400	5,090	15,500	64.0
NW	10/22/2021	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW	10/22/2021	0-1	In-Situ	< 0.050	< 0.300	<10.0	38.4	38.4	13.0	51.4	16.0
SW	10/22/2021	0-1	In-Situ	< 0.050	< 0.300	<10.0	38.1	38.1	15.3	53.4	16.0
WW	10/22/2021	0-1	Excavated	< 0.050	< 0.300	<10.0	317	317	159	476	48.0
WWB	10/26/2021	0-2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 1 @ 1'	10/22/2021	1	Excavated	< 0.050	< 0.300	<10.0	520	520	304	824	16.0
FL 1 @ 2'	10/26/2021	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FL 2 @ 1'	10/22/2021	1	Excavated	< 0.050	< 0.300	<10.0	225	225	126	351	16.0
FL 2 @ 2'	10/26/2021	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

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# Appendix A Depth to Groundwater Information

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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

Water right life.)       elosed)       FOD       FOD       Sub-       Curve       54       5       V       V       V       V       DistanceDepthWellDepthWater Column         CP 00571 POD1       CP       LE       3       1       4       28       215       54       643499       3591063       2057       170       135       35         CP 01091 POD1       CP       LE       3       1       4       28       216       643499       3591043       2081       2000       140       600         CP 01091 POD1       CP       LE       4       2       2160       180       140       40         CP 01067 POD1       CP       LE       4       2       216       180       140       40         CP 01065 POD1       CP       LE       3       2       3       2       34E       643609       359105       2160       180       140       40         CP 01065 POD1       CP       LE       3       2       3       2       35       34E       643583       358918*       2312       84       43         CP 00569 POD1       CP       LE       3       2       3       2	(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the fil	laced, ined,								3=SW 4=SI	/				
Nome       Sub- basis       Code basis       Sub- basis	water right file.)	closed)	DOD			(qua	rtei	s are	smalle	est to la	rgest) (N	AD83 UTM in m	ieters)	(In f	eet)	
POD Number       Code       basin       County       V       See       Two       Rig       X       Y       DistanceDeptit/WellDeptit/WellDeptit/WetlPert			-		0	Δ	0								N.	lator.
CP 00571 POD1       CP       LE       3       1       4       28       218       34E       643499       3591063       2057       170       135       35         CP 01091 POD1       CP       LE       3       3       2       28       218       34E       643446       3591434       2081       200       140       60         CP 01067 POD1       CP       LE       1       3       4       28       218       34E       643447       3591434       2082       210       140       70         CP 01068 POD1       CP       LE       4       1       4       28       218       34E       643609       359105       2160       180       140       40         CP 00583       CP       LE       2       1       4       28       218       34E       643609       359105       2160       180       140       40         CP 00583       CP       LE       2       1       4       28       218       34E       643737       3591191       2310       210       140       70         CP 00588 POD1       CP       LE       3       2       32       32       35       35	POD Number	Code		Countv	-	-	-		Tws	Rng	Х	Y	DistanceDep	thWellDep		
CP 01067 POD1       CP LE 1 3 3 4 28 218 34E       643447 3591434 2082 210       140       70         CP 01068 POD1       CP LE 4 1 3 2 28 218 34E       643609 3591005 2160       180       140       40         CP 00583       CP LE 2 1 1 4 28 218 34E       643609 3591005 2160       100       180       140       40         CP 00583       CP LE 2 1 4 2 1 1 4 28 218 34E       643737 359119 2310       210       140       70         CP 00589 POD1       CP LE 2 3 2 3 2 18 34E       643583 3589918* 2312 89       280       290       290       290       290       290       290       290       290       290       140       70         CP 00569 POD1       CP       LE 4 3 2 2 8 2 8       38 2 18 34E       643735	<u>CP 00571 POD1</u>			-						0	643499	3591063 🌍	-	-		
CP 01068 POD1       CP       LE       4       1       4       28       215       34E       643609       3591005       2160       180       140       40         CP 00583       CP       LE       3       21       215       34E       643609       359105       2160       180       140       40         CP 00583       CP       LE       3       21       215       34E       643737       3591191       2310       210       140       70         CP 00588 POD1       CP       LE       3       2       33       215       34E       643583       3589918*       2312       89         CP 00589 POD1       CP       LE       3       2       33       215       34E       643583       3589918*       2312       84         CP 00589 POD1       CP       LE       3       2       28       215       34E       643735       3591054*       2312       84         CP 00600 POD1       CP       LE       4       3       2       28       218       34E       643735       3591345       2338       210       140       70         CP 01066 POD1       CP       LE       4	<u>CP 01091 POD1</u>		СР	LE	3	3	2	28	21S	34E	643446	3591434 🌍	2081	200	140	60
CP 00583       CP       LE       3       21       21S       34E       642944       3592518*       2254       171       128       43         CP 01069 POD1       CP       LE       2       1       4       28       21S       34E       643737       3591191       2310       210       140       70         CP 00588 POD1       CP       LE       3       2       33       21S       34E       643583       3589918*       2312       89         CP 00588 POD1       CP       LE       3       2       33       21S       34E       643583       3589918*       2312       89         CP 00589 POD1       CP       LE       3       2       33       21S       34E       643583       3589918*       2312       84         CP 00600 POD1       CP       LE       4       25       21S       34E       643735       3591345       2338       210       140       70         Average Depth       CP       LE       4       3       2       28       21S       34E       643735       3591345       2338       210       140       70         Average Depth to Water:       137       feet <td><u>CP 01067 POD1</u></td> <td></td> <td>СР</td> <td>LE</td> <td>1</td> <td>3</td> <td>4</td> <td>28</td> <td>21S</td> <td>34E</td> <td>643447</td> <td>3591434 🌍</td> <td>2082</td> <td>210</td> <td>140</td> <td>70</td>	<u>CP 01067 POD1</u>		СР	LE	1	3	4	28	21S	34E	643447	3591434 🌍	2082	210	140	70
CP 01069 POD1       CP       LE       2       1       4       28       215       34E       643737       3591191       2310       210       140       70         CP 00588 POD1       CP       LE       3       2       33       215       34E       643737       3591191       2310       210       140       70         CP 00588 POD1       CP       LE       3       2       33       215       34E       643583       3589918*       2312       89         CP 00589 POD1       CP       LE       3       2       33       215       34E       643583       3589918*       2312       84         CP 00600 POD1       CP       LE       2       4       25       215       33E       639152       3591054*       2315       65         CP 01066 POD1       CP       LE       4       3       2       28       215       34E       643735       3591345       2338       210       140       70         Average Depth to Water:       137 feet         Minimum Depth:       128 feet       Maximum Depth:       128 feet         Maximum Depth:       140 feet       140 feet       140 feet <td< td=""><td><u>CP 01068 POD1</u></td><td></td><td>СР</td><td>LE</td><td>4</td><td>1</td><td>4</td><td>28</td><td>21S</td><td>34E</td><td>643609</td><td>3591005 🌍</td><td>2160</td><td>180</td><td>140</td><td>40</td></td<>	<u>CP 01068 POD1</u>		СР	LE	4	1	4	28	21S	34E	643609	3591005 🌍	2160	180	140	40
CP 00588 POD1       CP       LE       3       2       33       21S       34E       643583       3589918*       2312       89         CP 00589 POD1       CP       LE       3       2       33       21S       34E       643583       3589918*       2312       89         CP 00589 POD1       CP       LE       3       2       32       21S       34E       643583       3589918*       2312       84         CP 00600 POD1       CP       LE       2       4       25       21S       33E       639152       3591054*       2315       65         CP 01066 POD1       CP       LE       4       3       2       28       21S       34E       643735       3591345       2338       210       140       70         Average Depth to Water:       137 feet         Minimum Depth:       128 feet       Maximum Depth:       140 feet <b>VITMNAD83 Radius Search (in meters):</b> Easting (X):       641455.71       Northing (Y):       3590824.26       Radius:       3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed	<u>CP 00583</u>		СР	LE			3	21	21S	34E	642944	3592518* 🌍	2254	171	128	43
CP 00589 POD1       CP       LE       3       2       33       21S       34E       643583       3589918*       2312       84         CP 00600 POD1       CP       LE       2       4       25       21S       33E       639152       3591054*       2315       65         CP 01066 POD1       CP       LE       4       3       2       28       21S       34E       643735       3591054*       2315       65         CP 01066 POD1       CP       LE       4       3       2       28       21S       34E       643735       3591345       2338       210       140       70         Average Depth to Water:       137 feet         Minimum Depth:       128 feet       Maximum Depth:       140 feet         Record Count: 10         UTMNAD83 Radius Search (in meters):         Easting (X):       641455.71       Northing (Y):       3590824.26       Radius:       3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the	<u>CP 01069 POD1</u>		СР	LE	2	1	4	28	21S	34E	643737	3591191 🌍	2310	210	140	70
CP 00600 POD1       CP       LE       2       4       25       218       33E       639152       3591054*       2315       65         CP 01066 POD1       CP       LE       4       3       2       28       218       34E       643735       3591345       2338       210       140       70         Average Depth to Water:       137 feet         Minimum Depth:       128 feet         Maximum Depth:       140 feet <b>UTMNAD83 Radius Search (in meters):</b> Easting (X):       641455.71       Northing (Y):       3590824.26       Radius:       3220         *UTM location was derived from PLSS - see Help	<u>CP 00588 POD1</u>		СР	LE		3	2	33	21S	34E	643583	3589918* 🌍	2312	89		
CP 01066 POD1       CP LE 4 3 2 28 218 34E 643735 3591345       2338 210 140 70         Average Depth to Water:       137 feet         Minimum Depth:       128 feet         Maximum Depth:       140 feet <b>Record Count:</b> 10 <b>UTMNAD83 Radius Search (in meters): Easting (X):</b> 641455.71         Northing (Y): 3590824.26 <b>Radius:</b> 3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warrantices, expressed or implied, concerning the	<u>CP 00589 POD1</u>		СР	LE		3	2	33	21S	34E	643583	3589918* 🌍	2312	84		
Average Depth to Water:       137 feet         Minimum Depth:       128 feet         Maximum Depth:       140 feet         Ite asting (X): 641455.71         Northing (Y): 3590824.26         Radius: 3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the	<u>CP 00600 POD1</u>		СР	LE		2	4	25	21S	33E	639152	3591054* 🌍	2315	65		
Minimum Depth:       128 feet         Maximum Depth:       140 feet         Record Count: 10         UTMNAD83 Radius Search (in meters):         Easting (X): 641455.71         Northing (Y): 3590824.26         Radius: 3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the	<u>CP 01066 POD1</u>		СР	LE	4	3	2	28	21S	34E	643735	3591345 🌍	2338	210	140	70
Maximum Depth:       140 feet         Maximum Depth:       140 feet         Record Count: 10         UTMNAD83 Radius Search (in meters):         Easting (X): 641455.71       Northing (Y): 3590824.26       Radius: 3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the												Averag	ge Depth to Wate	r:	137 fee	t
Record Count: 10         UTMNAD83 Radius Search (in meters):         Easting (X): 641455.71         Northing (Y): 3590824.26         Radius: 3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the													Minimum Dep	th:	128 fee	t
UTMNAD83 Radius Search (in meters):         Easting (X): 641455.71         Northing (Y): 3590824.26         Radius: 3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the													Maximum Dep	th:	140 fee	t
Easting (X):       641455.71       Northing (Y):       3590824.26       Radius:       3220         *UTM location was derived from PLSS - see Help         The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the	Record Count: 10															
*UTM location was derived from PLSS - see Help The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the	UTMNAD83 Radius	s Search (ii	<u>n meters):</u>	<u>:</u>												
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the	Easting (X): 641	455.71		Nortl	hing	g (Y	):	3590	824.26	5		<b>Radius:</b> 3220				
	*UTM location was derived	from PLSS	- see Help													
											nderstanding t	hat the OSE/ISC ma	ake no warranties,	expressed or ir	nplied, concern	ing the

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WATER COLUMN/ AVERAGE DEPTH TO WATER



					• •				NE 3=S to larges		·	3 UTM in me	eters)	
Vell Tag	POD	Number			Q6	4 Q16	Q4	Sec	Tws	Rng		Χ	Y	
	CP 0	0571 POI	D1		3	1	4	28	21S	34E	6434	99 3591	063 🌍	
Driller Lic	ense:	46		1	Drill	er Co	mpa	ny:	AB	BOT	T BROTH	ERS COM	PANY	
Driller Nar	ne:	ABBOTT	Г, MU	JRREL	L									
Drill Start	Date:	06/29/19	978	1	Drill	Finis	h Da	te:	0	7/12/1	1978	Plug Date	e:	
Log File Da	ate:	07/18/19	978	1	PCW	Rev	Date	:	0	7/10/2	2017	Source:		Shallow
Pump Type	e:	SUBME	R	1	Pipe	Disch	arge	Size	e: 3			Estimate	d Yield:	
Casing Size	e:	6.63		1	Dept	h Wel	l:		1	70 fee	et	Depth Wa	ater:	135 feet
	Wate	r Bearing	g Stra	tificati	ons:		То	p I	Botton	n Des	scription			
							13	35	170	) Sar	ndstone/Gr	avel/Congl	omerate	;
		Casi	ing P	erforat	ions	:	To	p I	Botton	ı				
			0				10	-	170					
	Mete	r Number	r:	80	19			1	Meter	Make	e:	MASTE	R	
		r Serial N			4854	42					iplier:	100.0000		
	Num	ber of Dia	als:	6					Meter		-	Diversio	n	
	Unit	of Measu	re:	Ga	allon	s		]	Returi	1 Flov	v Percent:			
	Usag	e Multipli								-	equency:			
Meter l	x Readin	gs (in Acı		et)										
Read	l Date	Year	Mt	r Readi	ing	Flag	R	dr (	Comm	ent			Mtr	Amount Onli
05/12	2/1999	1999		700	)37	А	fr	n						0
06/12	2/1999	1999		790	)37	А	fr	n						2.762
	/2000	2000		160		А	jv	v						0
	7/2000	2000		258		A	jv							2.993
	)/2013	2013		679		A			beggin	ing re	adıng			0
04/30	0/2013	2013		766		Α	K	PT						2.670
**Y]	ГD Ме	ter Amou	nts:			A	Amo							
				1999				762						
				2000				993						
				2013			2.0	570						
		r Number			-06				Meter			MASTE		
		r Serial N			4854	12			Meter		-	100.0000		
		ber of Dia		6	. 11				Meter			Diversio	n	
		of Measu		Ga	allon	s					v Percent:			
	Usag	e Multipli	ier:					1	Readin	ig Fre	equency:			

Read Date Year Mtr Reading Flag Rdr Comment

Mtr Amount Online

06/01/2000	2000	16058		fm			0
07/02/2000	2000	25810		fm			2.993
12/12/2012	2012	58193	А		No reported ending date	;	0
12/12/2012	2012	67955	А	RPT			2.996
**YTD Met	ter Amoun	ts: Year		Amount			
		2000		2.993			
		2012		2.996			
Meter	r Number:	18285	5		Meter Make:	MASTER	
Meter	r Serial Nu	mber: 55213	344		Meter Multiplier:	100.0000	
Numl	ber of Dials	s: 6			Meter Type:	Diversion	
	of Measure		ns		Return Flow Percent:		
	e Multiplie				Reading Frequency:	Quarterly	
 Meter Reading							
Read Date		Mtr Reading	Flag	Rdr	Comment		Mtr Amount Online
10/31/2016	2019	19375800	А	RPT			0
12/31/2016	2016	20180600	А	ap			246.984
02/01/2017	2017	20180600	А	ap			0
03/01/2017	2017	20180600	А	ap			0
04/01/2017	2017	20180600	А	ap			0
05/01/2017	2017	20180600	А	ap			0
05/31/2017	2017	20180600	А	ap			0
06/30/2017	2017	20220700	А	ap			12.306
07/31/2017	2017	21237900	А	ap			312.167
10/31/2017	2017	23229100	А	ap			611.077
11/30/2017	2017	23693300		ap			142.458
12/30/2017	2017	23913000		ap			67.423
01/30/2018	2018	23913000		ap			0
02/28/2018	2018	23913000		ap			0
03/30/2018	2018	23913000		ap			0
04/30/2018	2018	24258100		ap			105.907
06/01/2018	2018	25310100		ap			322.847
06/29/2018	2018	26224100		ap			280.496
07/31/2018	2018	26367000		ap			43.854
08/30/2018	2018	27573540		ap			370.274
09/30/2018	2018	27725200		ap			46.543
11/30/2018	2018	27725200		ар ррт			0
01/02/2019	2018	277252		RPT DDT			0
02/01/2019	2019	281404		RPT PDT			1.274
08/01/2019	2019	311730		RPT RPT			9.307
09/01/2019 09/30/2019	2019 2019	311730 333155		RPT RPT			0 6.575
10/31/2019	2019	333133 341763		RPT			2.642
10/31/2019	2019	341763 348644		RPT			2.042
12/31/2019	2019	348044 352371		RPT			1.144
02/01/2020	2019	352371		RPT			0
02/01/2020	2020	352371		RPT			1.764
	2020	550119	1	1.171			1./04

	05/01/2020	2020	361256	А	RPT			0
	06/01/2020	2020	361256		RPT			0
	08/01/2020	2020	369256	А	RPT			2.455
	09/01/2020	2020	371436	А	RPT			0.669
	10/01/2020	2020	371436	А	RPT			0
	10/31/2020	2020	374775	А	WEF	3		1.025 X
	11/30/2020	2020	383622	А	WEF	3		2.715 X
	12/31/2020	2020	394637	А	WEE	3		3.380 X
	**YTD Met	er Amounts	: Year		Amount			
			2016		246.984			
			2017		1145.431			
			2018		1169.921			
			2019		23.054			
_			2020		12.971			
х	Meter	· Number:	3933			Meter Make:	MASTER	
	Meter	· Serial Num	ber: 17485	42		Meter Multiplier:	100.0000	
	Numb	er of Dials:	6			Meter Type:	Diversion	
	Unit o	of Measure:	Gallor	ıs		<b>Return Flow Percent:</b>		
	Usage	Multiplier:				<b>Reading Frequency:</b>		
	Meter Reading	gs (in Acre-I	feet)					
	Read Date	Year M	ltr Reading	Fla	g Rdr	Comment		Mtr Amount Online
	09/25/2000	2000	42619	А	mb	Initial reading.		0
	01/06/2001	2000	52314	А	mb	Final reading for Trn#19	92404	2.975
	02/15/2001	2001	61182	А	mb	Initial reading Trn #206	823	0
	02/20/2001	2001	59463	А	mb	Final reading Trn# 2034	-19	2.194
	04/17/2001	2001	70632		mb	Final reading Trn #2068	23	2.900
	11/14/2012	2012	48419	А	RPT	intial reading		0
	11/14/2012	2012	58193	А	RPT	no end reading date prov	vided	3.000
	× **YTD Met	er Amounts	: Year		Amount			
			2000		2.975			
			2001		5.094			

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POINT OF DIVERSION SUMMARY

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						are 1=NV are smal			W 4=SE)		TM in meter	( <i>s</i> .	
Well Tag	POD	Number	•		•	6 Q4		e	·	X		Y	
		00583		×.		-		21S	0	642944	3592518	3* 🌍	
Driller Lic	ense:	46		Dril	ler Co	ompan	y:	AB	BOTT	BROTHER	S COMPA	NY	
Driller Na	me:	ABBOT	T, MI	URRELL									
Drill Start	Date:	06/06/1	984	Dril	l Fini	sh Dat	e:	0	6/07/19	84 P	lug Date:		
Log File D	ate:	06/18/1	984	PCV	W Rev	Date:				Se	ource:		Shallow
Pump Type	e:			Pipe	e Disc	harge	Size	e:		Ε	stimated `	Yield:	
Casing Siz	e:	6.63		Dep	th We	ell:		1	71 feet	D	epth Wat	er:	128 feet
Х	Wate	r Bearin	g Stra	atifications	:	Tor	) B	Bottom	Desci	ription			
			8			11(				stone/Grave	el/Conglon	nerate	
х		Car	sing F	Perforation	s•	Tor	, B	Bottom					
		Ca	, ing i	ci ioi ation	3.	109		169					
Х	Mete	r Numbe	er:	2974			N	Meter	Make:	Ν	MASTER		
	Mete	r Serial I	Numł	<b>ber:</b> 17466	530		N	Meter	Multip	lier: 1	00.0000		
	Num	ber of Di	als:	5			N	Meter	Туре:	Ι	Diversion		
	Unit	of Measu	ire:	Gallo	ns				• •	Percent:			
	-	e Multip							ıg Freq	uency:			
Meter 1	X	gs (in Ac		eet)									
Read	l Date	Year	Mt	r Reading	Flag	g Ro	lr (	Comm	ent			Mtr A	Amount Onlin
06/05	5/2000	2000		16351	А	RF	РТ						0
	1/2000	2000		25783	А	RF	ΡT						2.895
** <b>Y</b> ]	ГD Ме	ter Amo	unts:	Year		Amou	nt						
				2000		2.89	95						

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



								=NE 3=S t to larges	W 4=SE)	(NAD83 I	JTM in meters	2)	
Well Tag	POD	Number			· •			c Tws	·	X		Y	
	CP (	01067 PO	D1		1			3 218	0	643447	359143	4 🌍	
x Driller Lic	ense:	421		Dri	iller (	Сотр	oany:	GL	ENN'S V	WATER W	/ELL SERV	/ICE	
Driller Nai	me:	GLENN	, CLA	ARK A."CO	ORK	Y" (L	D)						
Drill Start	Date:	05/20/2	012	Dri	ill Fi	nish I	Date:	0	5/22/201	2 P	lug Date:		
Log File Da	ate:	05/30/2	012	PC	WR	cv Da	ite:			S	ource:		Shallow
Pump Type	e:			Pip	oe Dis	schar	ge Siz	ze:		E	Stimated Y	ield:	30 GPM
Casing Size	e:	6.63		De	pth V	Vell:		2	10 feet	Ľ	epth Wate	r:	140 feet
	Mete Num	er Numbe er Serial N ber of Di of Measu	Numb als:	1561 per: 1802 8 Gallo	941			Meter	Multipli	ier:	MASTER 100.0000 Diversion		
	Usag	e Multipl	ier:						ng Frequ	iency:	Quarterly		
Meter l	Readir	ıgs (in Ac	re-Fe	et)									
Read	l Date	Year	Mt	r Reading	; Fl	ag	Rdr	Comm	ent			Mtr .	Amount Online
12/28	8/2012	2012		552330	) A		ym						0
10/31	1/2019	2019		552330	) A		RPT	NOT U	JSED				0
× **Y]	ГD Ме	eter Amou	ints:	Year		Am	ount						
				2012			0						
				2019			0						

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POINT OF DIVERSION SUMMARY



Well Tag	POD	Number		(qı	uarters are	e smalle	2=NE 3=S st to large ec Tws	· ·		3 UTM : <b>X</b>	in meters) Y		
8		1068 POD	1	4		4 2		34E	6436	09 3	591005 🥌		
x Driller Lice	ense:	421		Drill	ler Con	pany	: GI	LENN'S	WATER	WELI	SERVICE		
Driller Nan	ne:	GLENN, O	CLARK	A."CO	RKY" (	LD)							
Drill Start ]	Date:	03/10/20	12	Drill	Finish	Date:	C	)3/12/20	12	Plug ]	Date:		
Log File Da		03/22/20	12		V Rcv I			07/10/20		Sourc		Shallow	7
Pump Type		SUBMEI		Pipe	Discha	rge Si					ated Yield:	40 GPM	1
Casing Size		6.21		-	th Well:	-		80 feet			n Water:	140 feet	
x				•									
	Water	r Bearing	Stratific	ations:		Тор	Botton	n Desc	ription				
						140	17	0 Shall	ow Allu	vium/B	asin Fill		
Х	Meter	Number	:	18284			Meter	Make:		BLA	NCETT		
	Meter	r Serial Nu	umber:	11221	1501		Meter	Multip	lier:	1.000	00		
	Numb	oer of Dia	s:	9			Meter	Type:		Dive	rsion		
	Unit o	of Measur	e:	Barrel	s 42 gal		Retur	n Flow ]	Percent:				
	Usage	e Multiplie	er:				Readi	ng Freq	uency:	Quar	terly		
Matan F	x	gs (in Acro											
					El.	D.L.	C				M		0
	Date	Year	Mtr Re	-			Comn	nent			Mtr	Amount	Online
	/2016 /2016	2016 2016	-	85137 85137		ap						0 0	
	/2010	2010		85137		ар ар						0	
	/2017	2017		85137	A	ap						0	
04/01		2017		85137		ap						0	
	/2017	2017		85137		ap						0	
05/31	/2017	2017	3	85137	А	ap						0	
06/30	/2017	2017	3	85137	А	ap						0	
07/31	/2017	2017	3	85137	А	ap						0	
10/31	/2017	2017	3	85137	А	ap						0	
11/30	/2017	2017	4.	31733	А	ap						600.591	
12/30	/2017	2017	4	35668	А	ap						50.720	
01/30	/2018	2018	4	35668	А	ap						0	
02/28	/2018	2018	4	35668	А	ap						0	
	/2018	2018		35668	А	ap						0	
	/2018	2018		35668	А	ap						0	
06/01		2018		91172	А	ap						715.409	
	/2018	2018		06094	А	ap						192.335	
07/31		2018		08597	А	ap						32.262	
	/2018	2018		24812	А	ap						209.000	
	/2018	2018		27544	A	ap						35.214	
11/30	/2018	2018	5.	32789	А	ap						67.605	

Received by OGD:	12/2/2021 12:41:24 PM us/nmwrrs/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=CPSRD_0.0f 68

111111110.000.				• •	
01/02/2019	2018	532789	А	RPT	0
02/01/2019	2019	544135	А	RPT	1.462
08/01/2019	2019	594245	А	RPT	6.459
09/01/2019	2019	594245	Α	RPT	0
09/30/2019	2019	594245	А	RPT	0
10/31/2019	2019	643103	А	RPT	6.297
11/30/2019	2019	656569	Α	RPT	1.736
12/31/2019	2019	693655	Α	RPT	4.780
02/01/2020	2020	700382	Α	RPT	0.867
03/01/2020	2020	704200	А	RPT	0.492
04/01/2020	2020	716193	Α	RPT	1.546
05/01/2020	2020	716193	Α	RPT	0
06/01/2020	2020	716193	Α	RPT	0
08/01/2020	2020	724131	Α	RPT	1.023
09/01/2020	2020	724131	Α	RPT	0
10/01/2020	2020	724131	Α	RPT	0
10/31/2020	2020	724131	Α	WEB	0 2
11/30/2020	2020	724131	А	WEB	0 2
12/31/2020	2020	724131	А	WEB	0 2
**YTD Met	er Amounts:	Year		Amount	
		2016		0	
		2017		651.311	
		2018		1251.825	
		2019		20.734	
		2020		3.928	

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POINT OF DIVERSION SUMMARY



			••			=NE 3=SV		(NAD8	3 UTM in met	ters)	
Well Tag	POD	Number	· Qe	64 Q16 (	Q4 Se	c Tws	Rng		X	Y	
_	CP 0	1069 PO	D1 2	2 1	4 28	8 21S	34E	64373	37 35911	191 🌍	
x Driller Lice	ense:	421	Dril	ler Com	ipany:	GLI	enn's v	VATER	WELL SE	RVICE	
Driller Nar	me:	GLENN	, CLARK A."CO	RKY" (	LD)						
Drill Start	Date:	03/13/2	012 <b>Dril</b>	l Finish	Date:	03	/14/201	2	Plug Date	:	
Log File Da	ate:	03/22/2	012 PCV	V Rcv D	Date:	07	/10/201	7	Source:		Shallow
Pump Type		SUBMI	ER Pipe	Discha	rge Siz	ze: 3			Estimated	Vield:	40 GPM
Casing Size		6.21	-	th Well:	-		0 feet		Depth Wa	ter:	140 feet
		0.21	246				0 1000		Deptil ma		1.0.1000
X	Wate	r Bearing	g Stratifications	:	Тор	Bottom	Descri	ption			
					140	172	Shallo	w Alluv	vium/Basin	Fill	
х	Meter	r Numbe	r: 15548			Meter M	Make:		BLANCE	ETT	
	Mete	r Serial N	Number: 040 71	1 502		Meter I	Multipli	er:	10.0000		
	Numl	ber of Di	als: 9			Meter 7	Гуре:		Diversion	ı	
	Unit	of Measu	re: Barrel	s 42 gal		Return	Flow P	ercent:			
	Usage	e Multipl		Ũ		Reading	g Frequ	ency:	Quarterly		
	x										
Meter I	Readin	gs (in Ac	re-Feet)								
Read	l Date	Year	Mtr Reading	Flag	Rdr	Comme	ent			Mtr	Amount Onlin
03/28	8/2013	2013	0	А	RPT	Initial re	eading				0
03/28	8/2013	2013	842600	А		No endi	-				2.586
	2/2013	2013	1742720	А		No endi	-	-			2.762
	7/2013	2013	1102330	A		Not date		ial read	ing		0
	7/2013	2013	1928670	A		Final Ro	-	a			2.536
	1/2014	2014	0	C		Meter R	leading	Correct	ion		-248.593
	1/2014 1/2015	2014 2014	0	A	RPT RPT						0 0
	1/2015	2014	0 529903	A A	AP						68.301
	1/2015	2015	639766	A A	ap						141.606
	1/2015	2015	663386	A	ap						30.445
	1/2015	2015	663386	A	ap						0
	)/2015	2015	663386	А	ap						0
	7/2016	2016	663386	А	ap						0
03/17	7/2016	2016	0	А	ap	batteryr	eplacedı	resetme	terzero		0
03/31	1/2016	2016	20160	А	ap						25.985
	0/2016	2016	20160	A	ap						0
	1/2016	2016	84030	А	ap						82.324
06/30	0/2016	2016	116449	А	ap						41.786
07/27	7/2016	2016	154786	А	ap						49.414
09/01	1/2016	2016	182026	А	ap						35.111
10/01	1/2016	2016	202637	А	ap						26.566

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	レリブ	04.21.20	A	<u><u>N</u>P1</u>				4
01/02/2019 02/01/2019	2018 2019	795282 823150		RPT RPT			3.59	0
Read Date	Year	Mtr Reading		-	Comment		Mtr Amour	
Meter Reading		ŕ	-	<b>.</b> -				
x					Reading Frequency:	Quarterly		
	of Measure		s 42 g	gal.	Return Flow Percent:			
	er of Dial			1	Meter Type:	Diversion		
		<b>umber:</b> 04071	1502		Meter Multiplier:	1.0000		
	Number:				Meter Make:	BLANCET	1	
<b>N</b> / - 4	N					DIANCET	т	
		2018		472.700				
		2017		379.938				
		2010		293.913				
		2013		240.332				
		2014		240.352				
		2013		-248.593				
I ID Met	a Anoul	2013		7.884				
× **YTD Met	or Amour	ate. Voor		Amount				
10/31/2019	2019	1118349	А	ap			168.87	
06/30/2019	2019	987328	А	ap			25.56	
05/31/2019	2019	967491	А	ap			32.34	
05/01/2019	2019	942399	A	ap			55.32	
04/01/2019	2019	899476	A	ap			35.20	
03/01/2019	2010	872166	A	ap			155.38	
11/30/2018	2018	751612	A	ap ap			51.21	
09/30/2018	2018	711879	A	ap			29.50	
08/30/2018	2018	688988	A	ap ap			61.77	
07/31/2018	2018	641059	A A	ap			19.71	
06/01/2018 06/29/2018	2018 2018	597358 625767	A A	ap			62.66 36.61	
04/30/2018	2018	548737	A	ap			44.54	
03/30/2018	2018	514178	A	ap				0
02/28/2018	2018	514178	A	ap			30.06	
01/30/2018	2018	490850	A	ap			43.83	
12/30/2017	2017	456841	А	ap			44.23	
11/30/2017	2017	422524	А	ap			59.29	
10/31/2017	2017	376519	А	ap			117.35	5
07/31/2017	2017	285471	А	ap			68.30	6
06/30/2017	2017	232477	А	ap			3.10	1
05/31/2017	2017	230071	А	ap				0
05/01/2017	2017	230071	А	ap				0
04/01/2017	2017	230071	А	ap				0
03/01/2017	2017	230071	А	ap				0
02/01/2017	2017	230071	А	ap			2.63	
12/31/2016	2016 2016	226853 228029	Α	ap			1.51	
11/29/2016			Α	ap			31.21	3

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		2018 2019 2020		0 43.092 19.584	
**YTD Met	er Amounts:	Year		Amount	
12/31/2020	2020	1281533	Α	WEB	2.126 X
11/30/2020	2020	1265040	А	WEB	4.984 X
10/31/2020	2020	1226372	А	WEB	1.602 X
10/01/2020	2020	1213942	А	RPT	0
09/01/2020	2020	1213942	А	RPT	1.075
08/01/2020	2020	1205598	А	RPT	3.855
06/01/2020	2020	1175693	А	RPT	0
05/01/2020	2020	1175693	А	RPT	0
04/01/2020	2020	1175693	А	RPT	1.091
03/01/2020	2020	1167232	А	RPT	2.718
02/01/2020	2020	1146148	Α	RPT	2.133
12/31/2019	2019	1129601	A	RPT	1.446
11/30/2019	2019	1118384	А	RPT	0.005
10/31/2019	2019	1118349	A	RPT	2.705
09/01/2019 09/30/2019	2019 2019	1026416 1097360	A A	RPT RPT	0 9.144

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POINT OF DIVERSION SUMMARY

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			(q	arters are uarters ar	e smal	lest to	largest	)		3 UTM in			
Well Tag		Number 1091 POI		54 Q16			Tws 21S	-	6434	X 16 25	Y 91434 🦲		
x	CFU	1091 POI	51 3	, ,	2	20	215	34L	0434	40 33	91434 👹		
Driller Lic	ense:	421		ler Con	•	y:	GLE	ENN'S	WATER	WELL	SERVICE		
Driller Na	me:	GLENN,	CLARK A."CO	RKY" (	(LD)								
Drill Start	Date:	05/21/20	012 Dril	l Finish	n Date	e:	05	/22/20	12	Plug D	ate:		
Log File D	ate:	05/31/20	012 PCV	V Rcv I	Date:		07	/10/20	17	Source	:	Shallow	
Pump Type	e:	SUBME	ER Pipe	Pipe Discharge Siz				<b>ze:</b> 3			ted Yield:	40 GPM	
Casing Siz	e:	8.63	Dep	th Well	:		20	0 feet		Depth	Water:	140 feet	
x	Wate	r Bearing	g Stratifications:		Tor	Bo	ottom	Desc	ription				
			,		140				-	avel/Cor	nglomerate		
					173						nglomerate		
Х	Mete	r Numbe	r: 18287			М	leter I	Aake:		BLAN	ICETT		
	Mete	r Serial N	umber: 11221	1709		Μ	leter I	Aultip	lier:	1.0000	)		
	Num	ber of Dia	als: 9			Μ	eter 1	Гуре:		Divers	sion		
	Unit	of Measu	re: Barrel	s 42 ga	1.	R	eturn	Flow	Percent:				
	-	e Multipl					-		uency:	Quarte	erly		
Meter 1	X	igs (in Ac	re-Feet)										
	d Date	Year	Mtr Reading	Flag	Rd	lr Co	omme	ent			Mtr	Amount Onlin	
04/01	1/2014	2014	657555	А	ap							0	
07/01	1/2014	2014	814130	А	ap							201.815	
10/01	1/2014	2014	984741	А	ap							219.906	
01/01	1/2015	2015	1137297	А	ap							196.634	
04/01	1/2015	2015	1276915	А	ap							179.958	
07/01	1/2015	2015	1417372	А	ap							181.040	
10/01	1/2015	2015	1456407	А	ap							50.313	
10/3	1/2015	2015	1456407	А	ap							0	
11/30	0/2015	2015	1456407	А	ap							0	
	1/2016	2016	1502679	А	ap							59.641	
	0/2016	2016	1543517	А	ap							52.637	
	0/2016	2016	1609758	А	ap							85.380	
	7/2016	2016	1649735	А	ap							51.528	
	1/2016	2016	1675775	A	ap							33.564	
	1/2016	2016	1702611	A	ap							34.590	
	1/2016	2016	1702611	A	ap							0	
	9/2016	2016	1739967	A	ap							48.149	
	1/2016	2016	1739967	A	ap							0	
	1/2017	2017	1744162	A	ap							5.407	
	1/2017	2017	1744162	A	ap							0	
04/01	1/2017	2017	1744162	А	ap							0	

	2017	1744162		atcher?type= ap
	2017	1744162		ap
06/30/2017 2	2017	1759551	А	ap
07/31/2017 2	2017	1808910	А	ap
10/31/2017 2	2017	1905760	Α	ap
11/30/2017 2	2017	1963258	А	ap
12/30/2017 2	2017	2003974	А	ap
01/30/2018 2	2018	2023631	А	ap
02/28/2018 2	2018	2042988	А	ap
03/30/2018 2	2018	2042988	А	ap
04/30/2018 2	2018	2055652	А	ap
06/01/2018 2	2018	2092727	А	ap
06/29/2018 2	2018	2128644	А	ap
07/31/2018 2	2018	2148302	А	ap
08/30/2018 2	2018	2180906	А	ap
09/30/2018 2	2018	2211843	А	ap
11/30/2018 2	2018	2295749	А	ap
	2018	2341197	А	RPT
	2019	2358997		RPT
	2019	2620653		RPT
	2019	2620653		RPT
	2019	2701362		RPT
	2019	2754195		RPT
	2019	2801195		RPT
	2019	2826118		RPT
	2020	2849612		RPT
	2020	2876542		RPT
	2020	2911972		RPT
	2020	2911972		RPT
		2911972		RPT
	2020			
	2020	2940442		RPT
	2020	2951258		RPT
	2020	2951258		RPT
	2020	2991954		WEB
	2020	3030565		WEB
12/31/2020 2	2020	3079246	А	WEB
**YTD Meter	Amounts:	Year		Amount
		2014		421.721
		2015		607.945
		2016		365.489
		2017		340.286
		2018		381.937

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62.503

32.627

2019

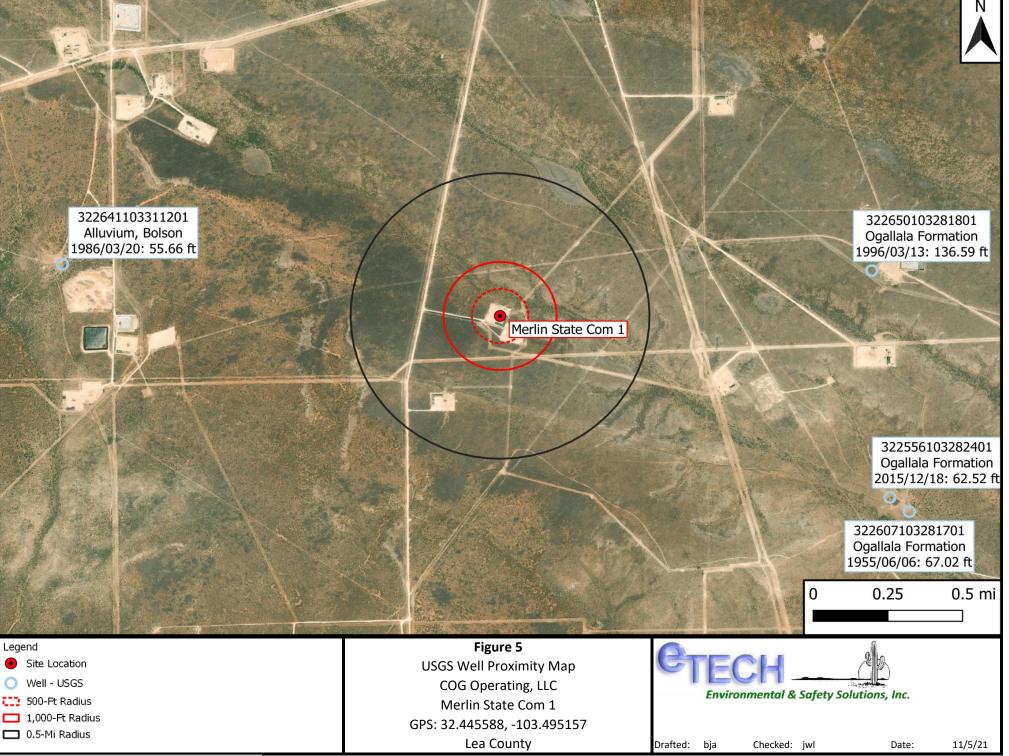
2020

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#### Search Results -- 1 sites found

Agency code = usqs

site no list =

• 322556103282401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 322556103282401 21S.34E.33.233442

Lea County, New Mexico Latitude 32°26'10.1", Longitude 103°28'22.7" NAD83 Land-surface elevation 3,642 feet above NAVD88 The depth of the well is 92 feet below land surface. This well is completed in the Other aguifers (N9999OTHER) national aguifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

**Output formats** Table of data Tab-separated data Graph of data

Reselect period Water ? Water ? level, ? level, ? ? ? feet Referenced ? Water-Waterfeet Time Date above vertical level Parameter below Method of Measuring Source of level specific datum Status date-time code land measurement agency measurement approval vertical accuracy surface status datum 1968-03-28 D 72019 64.05 3 Ζ D 3 Ζ 1971-02-04 72019 64.45 А D 1976-12-15 72019 63.10 1 Ζ Α D 1981-03-05 72019 63.06 1 Ζ А D 1986-03-20 72019 62.67 1 Ζ Α 1991-05-03 D 72019 Ζ 62.62 1 А

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Data Category: Geographic Area: ✓ GO Groundwater United States

#### Received by OCD: 12/2/2021 12:41:24 PM

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1996-02-16		D	72019	62.57			1	S			А
2015-12-18	17:30 UTC	m	72019	62.52			1	S	USGS	S	А

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-11-09 16:49:26 EST 0.31 0.24 nadww02 USA.gov



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 Geographic Area:

 Groundwater
 V
 United States
 GO

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## Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 322607103281701

#### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 322607103281701 21S.34E.33.233443

Lea County, New Mexico Latitude 32°26'07", Longitude 103°28'17" NAD27 Land-surface elevation 3,639 feet above NAVD88 The depth of the well is 80 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

**Output formats** 

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1955-06-06			72019	67.02							Δ

		Explanation	
Section	Code	Description	
Water-level date-time accuracy	D	Date is accurate to the Day	
Parameter code	62610	Groundwater level above NGVD 1929, feet	
Parameter code     62611     Groundwater level above NAVD 1988, feet			
Parameter code	72019	Depth to water level, feet below land surface	
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988	
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929	
Status	1	Static	
Method of measurement	Z	Other.	
Measuring agency		Not determined	
Source of measurement		Not determined	
Water-level approval status	А	Approved for publication Processing and review completed.	

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 Data Category:
 Geographic Area:

 Groundwater
 V

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## Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 322641103311201

Minimum number of levels = 1

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## USGS 322641103311201 21S.33E.25.42322

Lea County, New Mexico Latitude 32°26'41", Longitude 103°31'12" NAD27 Land-surface elevation 3,660 feet above NAVD88 The depth of the well is 68 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data		
Tab-separated data		
Graph of data		
Reselect period		

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-03-28		D	72019	56.53			1	Z			А
1971-02-04		D	72019	58.95			1	Z			А
1972-09-22		D	72019	56.53			1	Z			А
1976-12-16		D	72019	57.58			1	Z			А
1981-03-10		D	72019	56.03			1	Z			А
1986-03-20		D	72019	55.66			1	Z			А

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-11-09 17:04:24 EST 0.28 0.24 nadww02



National Water Information System: Web Interface

**USGS** Water Resources

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USGS Home Contact USGS Search USGS

 Data Category:
 Geographic Area:

 Groundwater
 V
 United States
 V
 GO

Click forNews Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 322650103281801

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 322650103281801 21S.34E.28.413232

Lea County, New Mexico Latitude 32°26'51", Longitude 103°28'24" NAD27 Land-surface elevation 3,728.00 feet above NGVD29 The depth of the well is 170 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

**Output formats** 

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1981-09-16		D	72019	137.62				1 2	Ζ		А
1986-03-20		D	72019	137.04				1 2	2		А
1991-04-19		D	72019	137.67				1 2	Ζ		А
1996-03-13		D	72019	136.59				1 5	5		А

		Explanation				
Section	Code	Description				
Water-level date-time accuracy	D	Date is accurate to the Day				
Parameter code	62610	Groundwater level above NGVD 1929, feet				
Parameter code 62611		Groundwater level above NAVD 1988, feet				
Parameter code 72019		Depth to water level, feet below land surface				
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988				
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929				
Status	1	Static				
Method of measurement	S	Steel-tape measurement.				
Method of measurement	Z	Other.				
Measuring agency		Not determined				
Source of measurement		Not determined				
Water-level approval status	А	Approved for publication Processing and review completed.				

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-11-09 17:06:01 EST 0.48 0.28 nadww01 USA.gov

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# **Appendix B Laboratory Analytical Reports**



September 07, 2021

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

**RE: MERLIN STATE COM 1** 

Enclosed are the results of analyses for samples received by the laboratory on 09/02/21 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	09/02/2021	Sampling Date:	08/30/2021
Reported:	09/07/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	14751	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

## Sample ID: V 1 @ SURFACE (H212395-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.641	0.050	09/07/2021	ND	1.93	96.6	2.00	3.07	
Toluene*	3.32	0.050	09/07/2021	ND	1.94	96.9	2.00	2.23	
Ethylbenzene*	0.767	0.050	09/07/2021	ND	1.93	96.5	2.00	0.286	
Total Xylenes*	1.42	0.150	09/07/2021	ND	5.94	99.0	6.00	0.751	
Total BTEX	6.15	0.300	09/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98. <i>3</i>	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/03/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	09/03/2021	ND	222	111	200	2.31	
DRO >C10-C28*	10400	50.0	09/03/2021	ND	215	107	200	2.23	
EXT DRO >C28-C36	5090	50.0	09/03/2021	ND					
Surrogate: 1-Chlorooctane	91.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	452	% 38.9-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Elech Environmental     BILL TO     ANALYSIS REQUEST       Project Manager: Joil Lowry     P.O. #:     P.O. #:     P.O. #:       Address: Zbl7 Mar (und)     Company: COG     City: No file,     State: UM Zip: 88240     Attn:       Address: Zbl7 Mar (und)     Company: COG     City: No file,     State: UM Zip: 88240     Attn:       Phone #: STS-9(LU-2861     Fax #:     Address:     Project Attn:     Project Owner: COG       Project #: 14751     Project Owner: COG     City:     Phone #:       Project Location: Ruical (Lea Co, UM     State: Zip:     Phone #:       Sampler Name: Migue (Running)     Fax #:     Phone #:       Image: Project Location: Ruical (Lea Co, UM     Phone #:     Fax #:       Sampler Name: Migue (Running)     Running)     Running       Image: Reserver     SAMPLING     SAMPLING       VI @ Surfacu     G (U V)     V (Signation V)       Image: Reserver     SAMPLING       Image: Re	Project Manager: Jol Lowry       P.O. #:         Address: 2bl7 Marlund       Company: COG         City: Hobbs       State: UM Zip: 88340         Phone #: \$75-964-2861       Fax #:         Project Name:       Marlun         Project Name:       Merlun State: COG         Project Name:       Merlun State: Com         Project Location:       Rura Co, NM         Phone #:       Fax #:         Sampler Name:       Merlun State:         VBUBE ONLY       Matrix         VBUBE ONLY       Natrix	Project Manager: - Address: 2,617	soul Lowry	_	•	-	-							. 70						LIS	15 R	EQUE	:51		
Address:     2bl7     Mar ( u nd)     Company:     COG       City:     No bbs     State:     UM Zip:     88240     Attn:       Phone #:     \$75-964-2881     Fax #:     Address:       Project #:     14751     Project Owner:     COG       Project Name:     Merlin     State:     Zip:       Project Location:     Rural Laa Co, NM     Phone #:       Sampler Name:     Miguel Raveire     Fax #:       For Lub USE ONLY     MATRIX     PRESERV     SAMPLING       Value USE ONLY     Natrix     PRESERV     SAMPLING	Address: 2bl7       Mar ( u nd)       Company: COG         City: No bbs       State: UM Zip:88240       Attn:         Phone #: \$75-964-2861       Fax #:       Address:         Project #: 14751       Project Owner: COG       City:         Project Name: Merlin State Com I       State: Zip:         Project Location: Rusal Lea Co, NM       Phone #:         Sampler Name:       Miguel Ramingt       Fax #:         'For Lub USE ONLY       MATRIX       PRESERV.       SAMPLING         Will Will Will Will Will Will Will Will	Address: 2617 1	Marlund	_						P	.0.		-			T		·		T	T	T	T		-
City:       No bbs       State:       UM       Zip:88240       Attn:         Phone #:       \$75-964-2861       Fax #:       Address:         Project #:       14751       Project Owner:       COG         Project Name:       Merclun       State:       Zip:         Project Location:       Rusch Co, NM       Phone #:         Sampler Name:       Migue (Ruming)       MATRIX       PRESERV.         Sample I.B.       Sample I.D.       State:       Sample Name:	City:       No bbs       State:       Um Zip:88240       Attn:         Phone #:       \$75-964-2861       Fax #:       Address:         Project #:       14751       Project Owner:       COG         Project Name:       Merlin State:       Zip:         Project Location:       Rusal Cont       Phone #:         Sampler Name:       Miguel Russing       Fax #:         'For LAB USE ONLY       MATRIX       PRESERV.       SAMPLING         Lab 1.D.       Sample I.D.       BUNNE WILL WILL WILL WILL WILL WILL WILL WIL	City: No bhe								c	om	pany	Co	R		1									
Phone #:     \$75-964-2861     Fax #:       Project #:     14751     Project Owner:     (OG)       Project Name:     Merlin     State:     Zip:       Project Location:     Ruisel Lea Co, NM     Phone #:       Sampler Name:     Miguel Raminge     Fax #:       *For LAB USE ONLY       Lab 1.D.     Sample I.D.     WOOD NO	Phone #:       575-964-2861       Fax #:         Project #:       14751       Project Owner:       COS         Project Name:       Merlin       State:       Zip:         Project Location:       Rural Lea Co, NM       Phone #:         Sampler Name:       Miguel Ruraing       Fax #:         'FOR LAB USE ONLY       MATRIX       PRESERV.       SAMPLING         Lab 1.D.       Sample I.D.       WO(C) NO       W       Y	Louid. No Long	State: U/M	Zip	:8	820	10																		
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Page 4 of

+ Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com

Received by OCD: 12/2/2021 12:41:24 PM

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October 25, 2021

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

**RE: MERLIN STATE COM 1** 

Enclosed are the results of analyses for samples received by the laboratory on 10/22/21 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/22/2021	Sampling Date:	10/22/2021
Reported:	10/25/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	** (See Notes)
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

## Sample ID: NW (H212988-01)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2021	ND	2.16	108	2.00	8.49	
Toluene*	<0.050	0.050	10/25/2021	ND	2.10	105	2.00	8.43	
Ethylbenzene*	<0.050	0.050	10/25/2021	ND	2.06	103	2.00	8.10	
Total Xylenes*	<0.150	0.150	10/25/2021	ND	6.27	105	6.00	7.77	
Total BTEX	<0.300	0.300	10/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/25/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2021	ND	230	115	200	2.94	
DRO >C10-C28*	<10.0	10.0	10/25/2021	ND	224	112	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	10/25/2021	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.5	% 38.9-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/22/2021	Sampling Date:	10/22/2021
Reported:	10/25/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	** (See Notes)
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: EW (H212988-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2021	ND	2.16	108	2.00	8.49	
Toluene*	<0.050	0.050	10/25/2021	ND	2.10	105	2.00	8.43	
Ethylbenzene*	<0.050	0.050	10/25/2021	ND	2.06	103	2.00	8.10	
Total Xylenes*	<0.150	0.150	10/25/2021	ND	6.27	105	6.00	7.77	
Total BTEX	<0.300	0.300	10/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2021	ND	230	115	200	2.94	
DRO >C10-C28*	38.4	10.0	10/25/2021	ND	224	112	200	3.76	
EXT DRO >C28-C36	13.0	10.0	10/25/2021	ND					
Surrogate: 1-Chlorooctane	81.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.2	% 38.9-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/22/2021	Sampling Date:	10/22/2021
Reported:	10/25/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	** (See Notes)
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: SW (H212988-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2021	ND	2.16	108	2.00	8.49	
Toluene*	<0.050	0.050	10/25/2021	ND	2.10	105	2.00	8.43	
Ethylbenzene*	<0.050	0.050	10/25/2021	ND	2.06	103	2.00	8.10	
Total Xylenes*	<0.150	0.150	10/25/2021	ND	6.27	105	6.00	7.77	
Total BTEX	<0.300	0.300	10/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2021	ND	230	115	200	2.94	
DRO >C10-C28*	38.1	10.0	10/25/2021	ND	224	112	200	3.76	
EXT DRO >C28-C36	15.3	10.0	10/25/2021	ND					
Surrogate: 1-Chlorooctane	76.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.4	% 38.9-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/22/2021	Sampling Date:	10/22/2021
Reported:	10/25/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	** (See Notes)
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: WW (H212988-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2021	ND	2.16	108	2.00	8.49	
Toluene*	<0.050	0.050	10/25/2021	ND	2.10	105	2.00	8.43	
Ethylbenzene*	<0.050	0.050	10/25/2021	ND	2.06	103	2.00	8.10	
Total Xylenes*	<0.150	0.150	10/25/2021	ND	6.27	105	6.00	7.77	
Total BTEX	<0.300	0.300	10/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/25/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2021	ND	230	115	200	2.94	
DRO >C10-C28*	317	10.0	10/25/2021	ND	224	112	200	3.76	
EXT DRO >C28-C36	159	10.0	10/25/2021	ND					
Surrogate: 1-Chlorooctane	80.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.4	% 38.9-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/22/2021	Sampling Date:	10/22/2021
Reported:	10/25/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	** (See Notes)
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

#### Sample ID: FL 1 @ 1' (H212988-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2021	ND	2.16	108	2.00	8.49	
Toluene*	<0.050	0.050	10/25/2021	ND	2.10	105	2.00	8.43	
Ethylbenzene*	<0.050	0.050	10/25/2021	ND	2.06	103	2.00	8.10	
Total Xylenes*	<0.150	0.150	10/25/2021	ND	6.27	105	6.00	7.77	
Total BTEX	<0.300	0.300	10/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2021	ND	230	115	200	2.94	
DRO >C10-C28*	520	10.0	10/25/2021	ND	224	112	200	3.76	
EXT DRO >C28-C36	304	10.0	10/25/2021	ND					
Surrogate: 1-Chlorooctane	78.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	94.7	% 38.9-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/22/2021	Sampling Date:	10/22/2021
Reported:	10/25/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	** (See Notes)
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

## Sample ID: FL 2 @ 1' (H212988-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2021	ND	2.16	108	2.00	8.49	
Toluene*	<0.050	0.050	10/25/2021	ND	2.10	105	2.00	8.43	
Ethylbenzene*	<0.050	0.050	10/25/2021	ND	2.06	103	2.00	8.10	
Total Xylenes*	<0.150	0.150	10/25/2021	ND	6.27	105	6.00	7.77	
Total BTEX	<0.300	0.300	10/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2021	ND	230	115	200	2.94	
DRO >C10-C28*	225	10.0	10/25/2021	ND	224	112	200	3.76	
EXT DRO >C28-C36	126	10.0	10/25/2021	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.6	% 38.9-14	2						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Т				Project Name: Merlin State Com #1 Project Location: Rural Lea Co, NM.			hone	e #:							•	·   · ·		ŀ						
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Page 9 of



October 27, 2021

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

**RE: MERLIN STATE COM 1** 

Enclosed are the results of analyses for samples received by the laboratory on 10/26/21 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/26/2021	Sampling Date:	10/26/2021
Reported:	10/27/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

## Sample ID: FL 1 @ 2' (H213014-01)

TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	205	102	200	0.151	
DRO >C10-C28*	<10.0	10.0	10/27/2021	ND	204	102	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	94.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.9	% 38.9-14	2						

## Sample ID: FL 2 @ 2' (H213014-02)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	205	102	200	0.151	
DRO >C10-C28*	<10.0	10.0	10/27/2021	ND	204	102	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	93.2 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.2 9	38.9-14	2						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	10/26/2021	Sampling Date:	10/26/2021
Reported:	10/27/2021	Sampling Type:	Soil
Project Name:	MERLIN STATE COM 1	Sampling Condition:	Cool & Intact
Project Number:	14751	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

## Sample ID: WWB (H213014-03)

TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2021	ND	205	102	200	0.151	
DRO >C10-C28*	<10.0	10.0	10/27/2021	ND	204	102	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	10/27/2021	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.9	% 38.9-14	2						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sat

101 East Marland, Hobbs, NM 88240

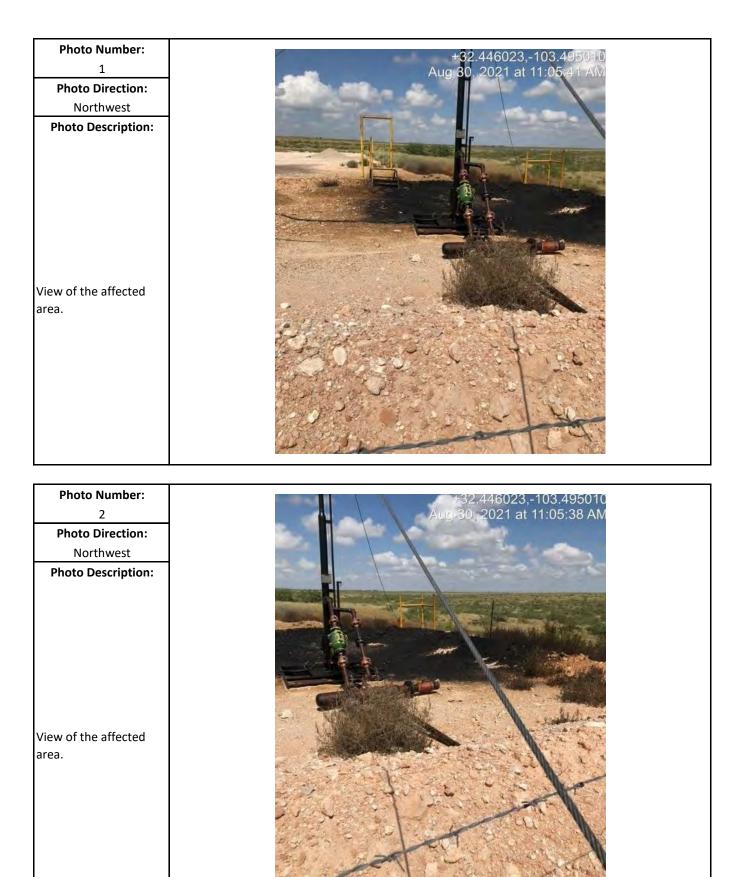
Sat

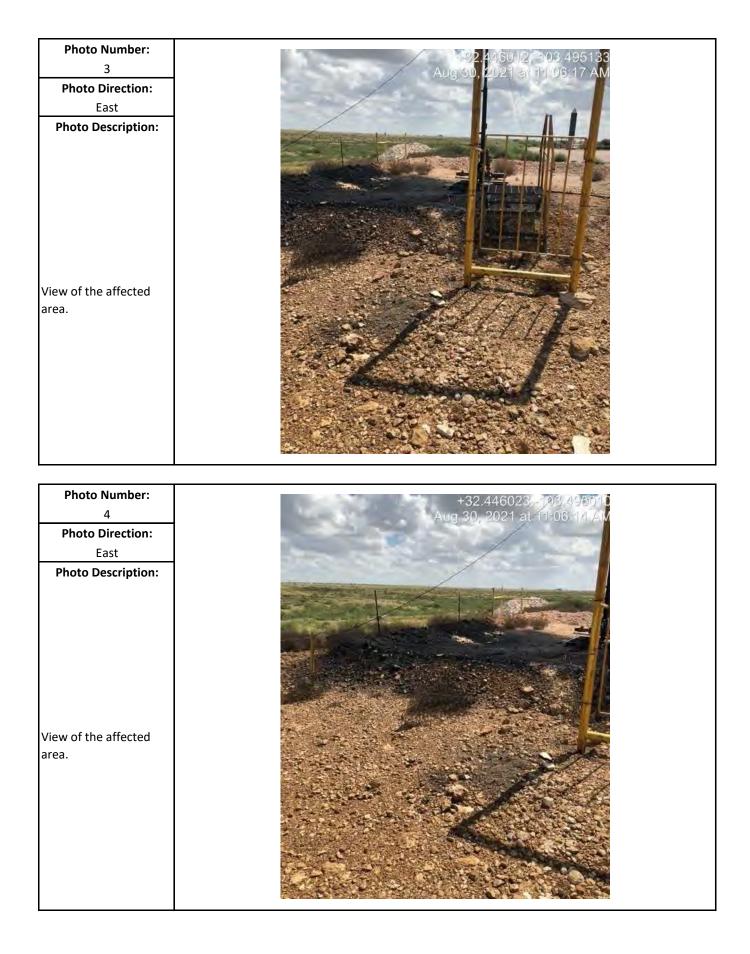
Company Name: ETECH Environmentel		BILL TO	ANALYSIS REQUEST
Project Manager: Jock Lowry		P.O. #:	
Address: 2617 Marland		Company: (70G	
City: Hobbs State: NM Zip: 88240		Attn:	
Phone #: 575 964 2880 Fax #: -		Address:	
Project #: 14751 Project Owner: CoG		City:	
Project Name: Merlin		State: Zip:	
Project Location: Rural Lea Co, NM		Phone #:	
Sampler Name: Miguel Kourh rec		Fax #:	_
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D. HZI3014	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL. OTHER : DTHER :	TPH
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for analyses. All claims including those for negligence and any other cause whethiover shall be exclused in the claims including the set of register of analyses, includi affiliates or auccessors arising out of or releted in the performance of services herounder by Relinquished By: Relinquished By: Relinquished By: Date: Time:	e deemed walved unters made in writing ar ng without limitation, business interruptions Cardinal, regardless of whether such claim Received By:	nd received by Cerdinal willin 30 days after completion of tose of use, or tose of profils incurved by client, its exhibits is based upon any of the above stend reasons or other: Verbal Re	of the applicable climines, rrises, Result:
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

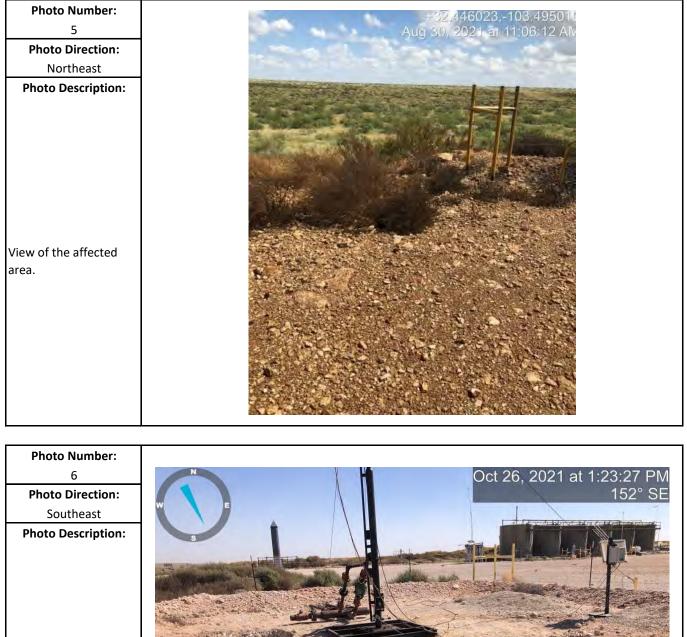
Page 5 of 5

# Appendix C Photographic Log





## Photographic Log



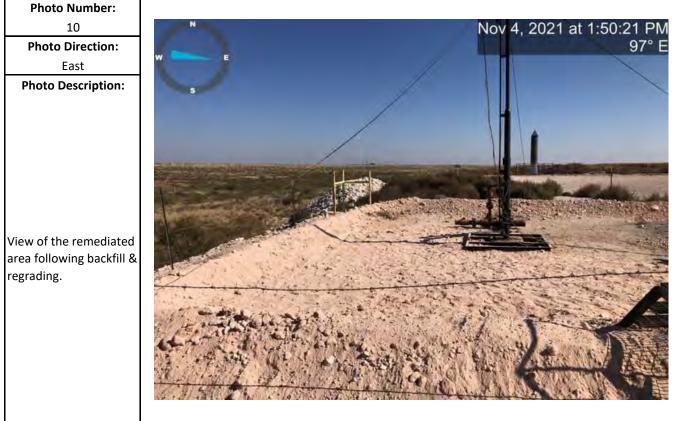
View of the excavated area.











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

Operator: C	OG OPERATING LLC	OGRID: 229137		
60	00 W Illinois Ave idland, TX 79701	Action Number: 64775		
		Action Type: [C-141] Release Corrective Action (C-141)		
CONDITIONS				
Created By	Condition	Condition Date		

Created By Condition None chensley

CONDITIONS

Action 64775

12/29/2021