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Incident ID	nAPP2316042324
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

This information must be provided to the appropriate district office no fater than 70 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;107</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 <b>☑</b> 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 <b>☑</b> 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 <b>☑</b> No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes <b>☑</b> 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

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

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

Received by OCD: 9/28/2023 10:13:57 AM
Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Connor Walker	Title: Sr. Engineer					
Signature: Alalh	Date:9/28/2023					
email: cwalker@mewbourne.com	Telephone: (806)202-5281					
OCD Only						
Received by:	Date:					

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	1 1180 0 0 1
Incident ID	nAPP2316042324
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Application ID	

### Closure

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

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

✓ A scaled site and sampling diagram as described in 19.15.29.11	NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
✓ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)					
✓ Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:  Connor Walker  Signature:  Connor Walker	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title: Sr. Engineer					
OCD Only						
Received by:	Date:					
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					

# Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Santo Nino SWD Riser

Eddy County, New Mexico
Unit Letter "E", Section 29, Township 18 South, Range 30 East
Latitude 32.7197124° North, Longitude 104.0013009° West
NMOCD Reference No. nAPP2316042324

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Zen J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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### **APPENDICES**

- Appendix A Depth to Groundwater Information
- Appendix B Field Data
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports
- Appendix E Regulatory Correspondence

### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Santo Nino SWD Riser. Details of the release are summarized below:

atitude:	32.7197124°	-104.0013009°				
attude.		Longitude:  led GPS are in WGS84 format				
*	G - N' GWD D'	lat. m	D: 1:			
ite Name: Date Release Discovere	Santo Nino SWD Riser ed: 5/31/2023	Site Type:  API # (if applica	Pipeline ble): N/A			
rate Release Discover	54. 5/51/2025	7 H T # (II applica	11/71			
Unit Letter Sec	ction Township	Range	County			
"E"	29 18S	30E	Eddy			
urface Owner: Sta		Private (Name of Ro				
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)			
X Produced Water	Volume Released (bbls)	44	Volume Recovered (bbls) 15			
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?						
Condensate Volume Released (bbls) Volume Recovered (bbls)						
Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)						
Other (describe) Volume/Weight Released Volume/Weight Recovered						
Cause of Release: A weld on a poly SW	D line came apart.					
	I	nitial Response				
X The source of the i	release has been stopped.					
	has been secured to protect hu	ıman health and the env	vironment.			
X The impacted area	has been secured to protect in	annan nearth and the en				
<b>=</b>	•		sorbent pad, or other containment devices			

Previously submitted portions of the NMOCD Form C-141 are available in 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 Santo Nino SWD Riser release 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?	>107'		
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?	X Yes	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 Santo Nino SWD Riser release site are as follows:

Probable Depth to Groundwater	( 'onstituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>107'	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

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

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

<sup>‡</sup> 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 REMEDIATION ACTIVITIES SUMMARY

On July 26, 2023, remediation activities commenced at the Santo Nino SWD Riser release 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 horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors 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. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On July 26, 2023, Etech collected seven (7) confirmation soil samples (NW 1, NW 2, SW 1, SW 2, FL 1 @ 2', FL 2 @ 2', and FL 5 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 32.0 mg/kg in soil sample SW 1 to 352 mg/kg in soil sample FL 5 @ 2'.

On July 27, 2023, Etech collected 25 confirmation soil samples (NW 3 through NW 6, EW 1, SW 1, SW 3 through SW 7, WW 1, WW 2, FL 1 @ 2', FL 3 @ 3', FL 4 @ 3', and FL 6 @ 3' through FL 14 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil sample NW 3 to 7,680 mg/kg in soil sample FL 13 @ 4'. The chloride concentration in soil sample NW 6 exceeded the NMOCD Reclamation Standard.

Pursuant to NMOCD regulations, a work plan or closure report was due for the release by August 31, 2023. On August 1, 2023, Etech submitted an extension request to the NMOCD asking for additional time to fully excavate the site, gather confirmation soil samples, backfill the excavation, and prepare a site closure request. The NMOCD subsequently granted an extension until September 29, 2023, with no added stipulations.

On August 7, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample NW 6. Etech collected one (1) confirmation soil sample (NW 6C) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 32.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 294 feet in length, five (5) to 30 feet in width, and two (2) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 640 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 636 cubic yards of locally sourced, non-impacted material 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. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

### 5.0 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 production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

### 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with 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 in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Santo Nino SWD Riser release site.

### 7.0 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 referenced 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 Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

### 8.0 DISTRIBUTION

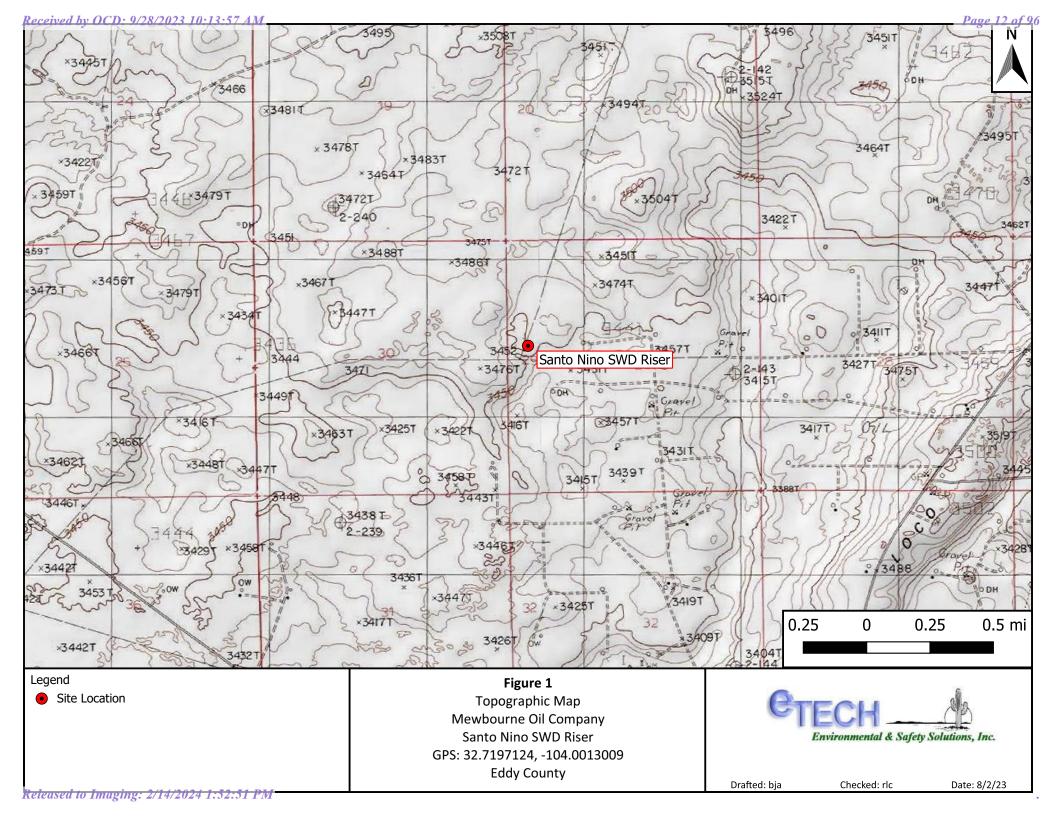
Mewbourne Oil Company 4801 Business Park Blvd. Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

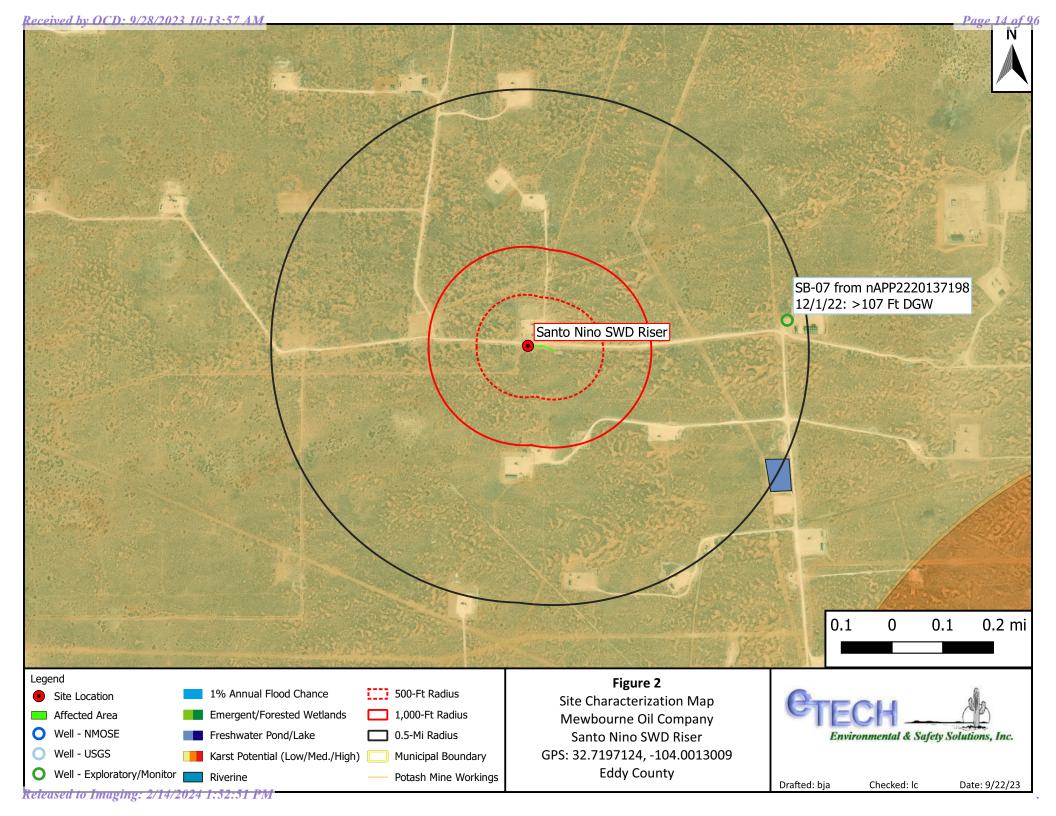
United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

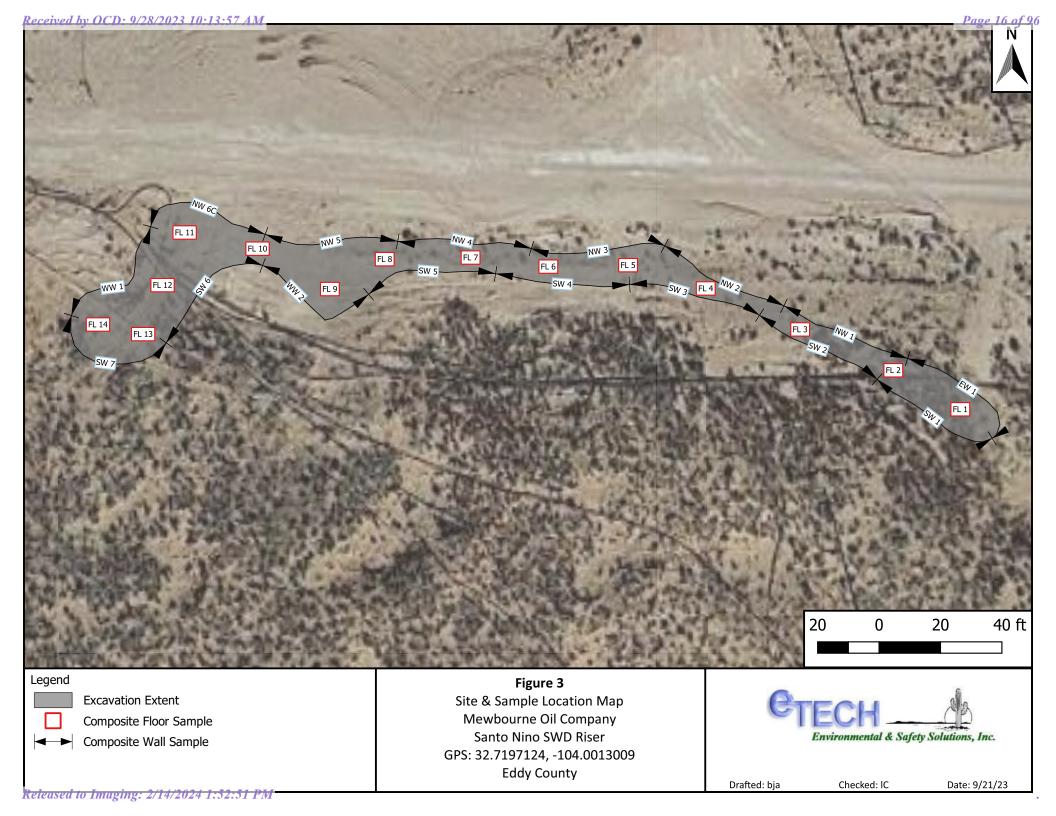
### Figure 1 Topographic Map



# Figure 2 Site Characterization Map



### Figure 3 Site & Sample Location Map



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

# Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Santo Nino SWD Riser NMOCD Ref. #: nAPP2316042324

N	MOCD Closu	re Criteri	a	10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMO	OCD Reclama	tion Stand	lard	10	50	N/A	N/A	N/A	N/A	100	600
				SW 846 8021B SW 846 8015M Ext.				4500 CI			
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)
NW 1	7/26/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 2	7/26/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 3	7/27/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 4	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NW 5	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 6	7/27/2023	0-4	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
NW 6C	8/7/2023	0-4	In-Situ	1	-	-	-	-	-	-	32.0
EW 1	7/27/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 1	7/26/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1*	7/27/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 2	7/26/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 3	7/27/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 4	7/27/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 5	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
SW 6	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
SW 7	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 1	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW 2	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 2'	7/26/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 1 @ 2'*	7/27/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 2 @ 2'	7/26/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 3'	7/27/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 4 @ 3'	7/27/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 5 @ 2'	7/26/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	352
FL 6 @ 3'	7/27/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 7 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
FL 8 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 9 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 10 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL 11 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	976
FL 12 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL 13 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,680
FL 14 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680

<sup>\*</sup> Denotes duplicate sample.

### Appendix A Depth to Groundwater Information



### **SOIL BORE LOG** SB-07

Note: Drilling log extracted from the "Closure Request", dated January 18, 2023, for NMOCD Incident ID #nAPP2220137198.

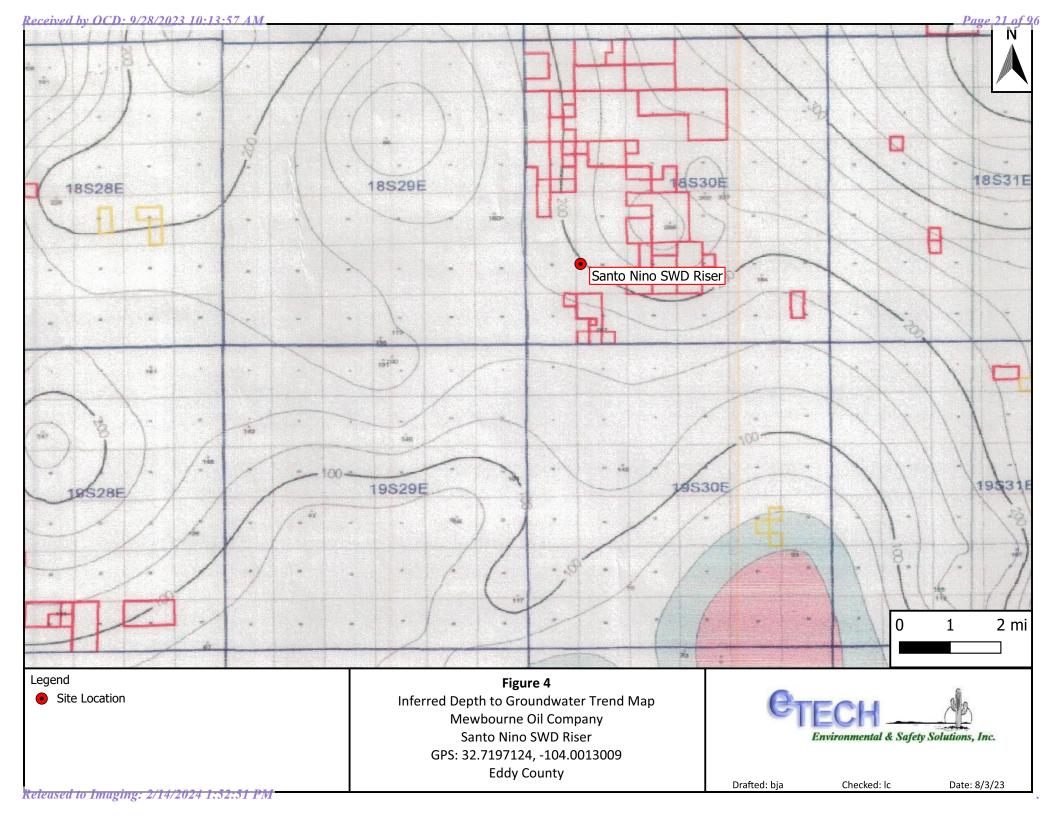
**PROJECT NAME** Santo Nino 29 SWD FED #1 **CLIENT** Mewbourne Oil Co.

DRILLING DATE 12/01/2022 TOTAL DEPTH 107' COORDINATES 32.720377, -103.992512 COORD SYS NAD 83 ULSTR G-29-18S-30E SURFACE ELEVATION 3455

 ${f COMMENTS}$  Spud on the West Side of the Santo Nino 29 SWD FED #1 Well Pad. Bore Hole was observed to be dry after 72 hrs.

CHECKED BY DD

		CHECKED BY DD								
Depth (ft)	Moisture	Material Description	Elevation (ft)							
	D	Reddish Yellow Sandy Clay Loam. Dry								
5		Yellowish Red Sandy Loam. Dry	3450							
10			3445							
15		Light Red Sandy Clay Loam. Dry	3440							
20		Yellowish Red Sandy Loam. Dry	3435							
25		Red Sandy Clay. Dry Yellowish Red Sandy Clay Loam. Dry	3430							
30			3425							
35		Yellowish Red Sandy Clay.	3420							
40			3415							
45			3410							
50		Yellowish Red Sandy Loam. Dry	3405							
			_							
55			3400							
60		Reddish Brown Sandy Clay. Dry	3395							
65		Yellowish Red Sandy Loam. Dry	3390							
70			3385							
75			3380							
80			3375							
85		Reddish Brown Sandy Clay. Dry	3370							
90		Yellowish Red Sandy Clay Loam. Dry	3365							
95			3360							
100			3355							
105										
110		Termination Depth at:107 ft.	3345							





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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

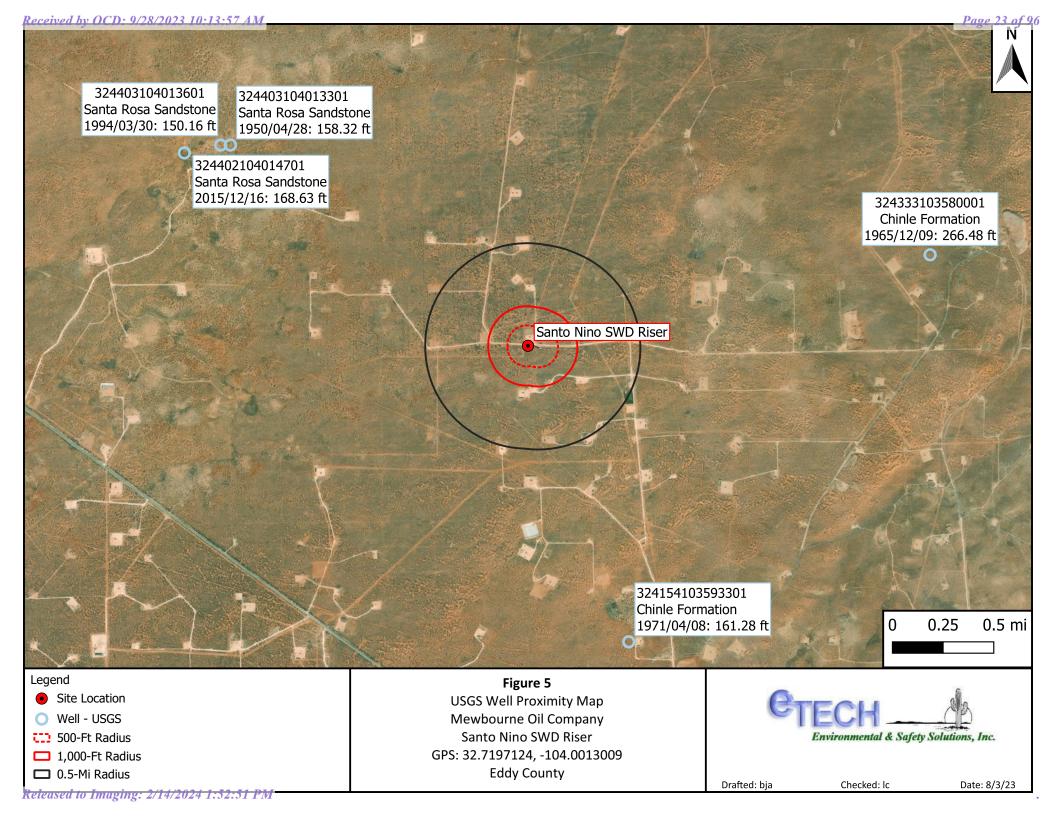
UTMNAD83 Radius Search (in meters):

**Easting (X):** 593590.15 **Northing (Y):** 3620655.81 **Radius:** 1610

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

7/27/23 1:37 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324154103593301

Minimum number of levels = 1

Table of data

Save file of selected sites to local disk for future upload

### USGS 324154103593301 18S.30E.32.32422

Eddy County, New Mexico
Latitude 32°41'54", Longitude 103°59'33" NAD27
Land-surface elevation 3,374 feet above NAVD88
This well is completed in the Other aquifers (N99990THER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

**Output formats** 

Г <u>ab-separate</u>	ed data										
raph of data											
<u>Reselect period</u>											
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
1968-03-0	08	D	72019	164.45			1	Z			А
1971-04-0	08	D	72019	161.28			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	А	Approved for publication Processing and review completed.

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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?

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Page Contact Information:  $\underline{\text{USGS Water Data Support Team}}$ 

Page Last Modified: 2023-09-21 18:28:54 EDT

0.31 0.26 nadww02





0

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•

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Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 324333103580001

Minimum number of levels = 1

able of data

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### USGS 324333103580001 18S.30E.21.4200

Eddy County, New Mexico Latitude 32°43'33", Longitude 103°58'00" NAD27 Land-surface elevation 3,461 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aguifer.

### **Output formats**

<u>Tab-separated data</u>											
<u>Graph of data</u>											
Reselect period											
Date \$ Time \$	? Water-level \$ date-time accuracy	? Parameter <del>\$\frac{\frac{1}{2}}{2}</del>	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring <sup>‡</sup> agency	? Source of measurement	? Water- level	
1965-12-09	D	72019	266.48			1	Z			A	A

### 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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0.28 0.24 nadww02





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Table of data Tab-separated data

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site\_no list =

324402104014701

72019

168.63

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 324402104014701 18S.29E.24.14413

Eddy County, New Mexico Latitude 32°44'01.5", Longitude 104°01'48.9" NAD83 Land-surface elevation 3,441 feet above NAVD88

The depth of the well is 202.00 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

### **Output formats**

Graph of data											
leselect period	<u>i</u>										
Date \$	Time \$	? Water- level \$ date- time accuracy	? Parameter <del>\$\frac{\frac{1}{2}}</del> code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring \$\frac{1}{2}\$ agency	? Source of measurement	? Water- level approval status
1994-03-30		D	72019	159.96				S			

1

USGS

2015-12-16 17:30 UTC

### **Explanation**

Section \$	Code \$	Description	<b>\$</b>
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		The reported water-level measurement represents a static level	
Status	1	Static	
Method of measurement	S	Steel-tape measurement.	
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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0.31 0.24 nadww02





0

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■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 324403104013301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 324403104013301 18S.29E.24.23314

Eddy County, New Mexico
Latitude 32°44'03", Longitude 104°01'33" NAD27
Land-surface elevation 3,446 feet above NAVD88
This well is completed in the Other aquifers (N99990THER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

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

Date \$ Ti	ime \$	? Water-level \$ date-time accuracy	? Parameter <sup>‡</sup> code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring \$\frac{\frac{1}{2}}{2}}	? Source of measurement	? Water- level approval status
1950-04-28		D	72019	158.32			Р	Z			А

### **Explanation**

Section \$	Code \$	Description	<b>\$</b>
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	Р	Pumping	
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.	

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0.29 0.24 nadww02





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Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324403104013601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 324403104013601 18S.29E.24.23313

Eddy County, New Mexico Latitude 32°44'03", Longitude 104°01'36" NAD27 Land-surface elevation 3,443 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formate

Table of data		Out	put iormats		
Tab-separated data					
Graph of data					
Reselect period					
		Water			

Date \$	Time \$	? Water- level  date-time accuracy	? Parameter   code	Water level, feet below land surface	Water level, feet above \$pecific vertical datum	Referenced vertical \$\datum\$	? Status	? Method of measurement	? Measuring \$\frac{1}{2}\$ agency	? Source of measurement	? Water- level \$ approval status
1965-12-20		D	72019	147.54			Р	Z			А
1968-03-08		D	72019	160.70			Р	Z			А
1971-04-08		D	72019	160.20			Р	Z			А
1976-05-28		D	72019	145.98			1	Z			Α
1983-04-12		D	72019	155.85			1	Z			Α
1986-06-03		D	72019	162.09			1	S			А

Date \$	Time \$	? Water- level date-time accuracy	? Parameter   code	Water level, feet below land surface	Water level, feet above \$pecific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring \$\displaystyle{\pi} agency	? Source of measurement	? Water- level approval status
1990-09-19		D	72019	153.24			1	S			А
1994-03-11		D	72019	174.41			1	S			A
1994-03-30		D	72019	150.16			1	S			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
Status	Р	Pumping
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	Α	Approved for publication Processing and review completed.

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0.28 0.25 nadww02

USA.gov

### **Appendix B Field Data**











### Sample Log

		Date:	
Project:	Santo Nino SWD Riser	_	

Project Number: Latitude: 32.7197124 Longitude: 18296

		μ · · · · · · · · · · · · · · · · · · ·		
Sample ID	PID/Odor	Chloride Conc.	GPS	
TILICIAZ	_	4.0 604 /97		
- NWIa	_	4.0 604 576		
= SWIQ,	_	1.2 < 124	_	
F1102.	_	2.4 248	!« /	
F12e2	_	7.4 7.48 1.8 152	•	
INWI	_	2.2 216	L.	
-5W1 -	_	1.0 - <124	•	
+F13C2'@3'	~	4.0 604 436		
+FL4 C2 03'	_	4.6 7761.4112		
FL5@Z'	_	3.4 500	,	
NW2		0.8 6124		
Sw2	_	1,4 152	,	
-FL6@3		1.9 112		
FV7Q9'	_	8.0 2512		
F1864'		5,8 1148		
FL9@4"	_	6,4 1411		
5W4		1.4 112		
4W3		1,6 136	**	
NW3	)	[412		
WWY WY	_	3.0 356		
+FU 10 a. 41		4.8796		
FLILDY'		6.0 1232		
FL 1204		4144	-	
FL 13@4'	)	4137		
5 h 5 3	1	3.6 480		
NW5.	_	3,0 356	_	
5 W 6		576		
NWG		3.6 400 110		
WWZ	_	1.8 164		
5W7	_	1.6 134		
EWI	_	1.4 112		
FL 14841	_	6.0 1232		
		8		
WHEN PERSON AND PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	The state of the s			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

**GPS Sample Points, Center of Comp Areas** 

### Appendix C Photographic Log

7/26/23, 10:40 AM

NM, Artesia

+32.719768,-104.001288

# Photographic Log

**Photo Number:** 

1

**Photo Direction:** 

Southwest

**Photo Description:** 



View of the affected area.

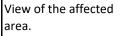
**Photo Number:** 

2

**Photo Direction:** 

East

**Photo Description:** 





**Photo Number:** 

3

**Photo Direction:** 

East

**Photo Description:** 

View of the affected area.



**Photo Number:** 

4

**Photo Direction:** 

Southeast

**Photo Description:** 

View of the affected area.



**Photo Number:** 

5

**Photo Direction:** 

West

**Photo Description:** 



View of the affected area.

**Photo Number:** 

6

**Photo Direction:** 

Northeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

7

**Photo Direction:** West-Northwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

8

Photo Direction:

West

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

9

**Photo Direction:** 

Southeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

10

Photo Direction:

Southeast

Photo Description:

View of the remediated

area after backfill and

regrading.



**Photo Number:** 

11

**Photo Direction:** South

**Photo Description:** 

View of the remediated area after backfill and regrading.



**Photo Number:** 

12

**Photo Direction:** 

Southwest

**Photo Description:** 

View of the remediated area after backfill and regrading.



Photo Number:

13

**Photo Direction:** South

**Photo Description:** 

View of the remediated area after backfill and regrading.



Photo Number:

14

Photo Direction: Southeast

**Photo Description:** 

View of the remediated area after backfill and regrading.



# Appendix D Laboratory Analytical Reports



August 02, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 8:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/27/2023 Sampling Date: 07/26/2023

Reported: 08/02/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

A ... - I. ... - - I D. ... 311 /

Project Location: MEWBOURNE - EDDY CO NM

#### Sample ID: FL 1 @ 2' (H233934-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/31/2023	ND	416	104	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	08/01/2023	ND	202	101	200	3.43	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/27/2023 Sampling Date: 07/26/2023

Reported: 08/02/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MEWBOURNE - EDDY CO NM

ma/ka

#### Sample ID: FL 2 @ 2' (H233934-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/31/2023	ND	416	104	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	08/01/2023	ND	202	101	200	3.43	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/27/2023 Sampling Date: 07/26/2023

Reported: 08/02/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MEWBOURNE - EDDY CO NM

ma/ka

#### Sample ID: FL 5 @ 2' (H233934-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/31/2023	ND	416	104	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	07/31/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	130	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/27/2023 Sampling Date: 07/26/2023

Reported: 08/02/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO NM

mg/kg

#### Sample ID: NW 1 (H233934-04)

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/31/2023	ND	416	104	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	07/31/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



07/26/2023

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/27/2023 Sampling Date: Reported: 08/02/2023 Sampling Type:

mg/kg

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MEWBOURNE - EDDY CO NM

#### Sample ID: NW 2 (H233934-05)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/31/2023	ND	416	104	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	07/31/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH/

Received: 07/27/2023 Reported: 08/02/2023 Sampling Date: 07/26/2023

Project Name:

Sampling Type: Soil

SANTO NINO SWD RISER Project Number: 18296

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - EDDY CO NM

mg/kg

#### Sample ID: SW 1 (H233934-06)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2023	ND	416	104	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	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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\*=Accredited Analyte

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Celey D. Keene



07/26/2023

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/27/2023 Reported:

08/02/2023 Sampling Type: Soil SANTO NINO SWD RISER

Project Name: Project Number: 18296 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: MEWBOURNE - EDDY CO NM

#### Sample ID: SW 2 (H233934-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/31/2023	ND	416	104	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	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	128 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 %	6 49.1-14	8						

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\*=Accredited Analyte

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Celey D. Keene



#### **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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### RDINAL LABORATORIES

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

Company Name	: Etech Environment	al & Safety Solu	tions	, Inc	3.				97	4410					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						1	P.O. 1	l:						
Address: 261	7 West Marland							Comp	any	Etec	zh zh				
City: Hobbs		State: NM	Zip:	882	240		1	Attn:	ı	Lance Cren	shaw	1 '		1	
Phone #: (57	5) 264-9884	Fax #:					-	Addre	ss:			1			
Project #: 182	296	Project Owne	F:	Me	wbourne	3	C	City:			10				
Project Name:	Santo Nino SWD Riser						5	State:	NM	Zip:		0	<b>₩</b>	128	
Project Location	n: Rural Eddy County,	NM					F	Phone	e #:		i	Chloride	TPH (8015M)	BTEX (8021B)	
Sampler Name:	Matthew Grieco			7	-		F	1 x #				Ē	Ē	X	
FOR LAB USE ONLY			A		MA	ATRI			ESERV.	SAMPL	ING	1	=	B	
Lab I.D. H233934	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL OTHER:	DATE	TIME		*		
	FL1 @ 2'		C	1	Х				X	7/26/23		Х	Х	Х	
	FL2 @ 2'		С	1	x	( _			X	7/26/23		X	X	X	
3	FL5 @ 2'		С	1	X	(		1	X	7/26/23		X	X	X	
4	NW1		С	1	X	ζ,		-	X	7/26/23		X	X	X	
S	NW2		С	1	х			-	X	7/26/23		X	X	X	<u> </u>
9	SW1		C	1	X	-	44	+	X	7/26/23		X	X	X	1
(	SW2		С	1	×	_	++	+	X	7/26/23		X	X	X	
								1							
	nd Demages. Cardinal's liability and clie- ing these for negligence and any other of audient be fliable for incidental or consec- ing out of or related to the performance	ours whatoover shall be rested demages, including of services instrumeter by C	erdinal	regard	don, bushess in class of whethe	in colores	ontract or log and e does, los claim is t			Ohio 30 days oth olio incurred by c	r completion of the subsidiar assures or otherwise	he applica ries, se.			No Add'l Phone #:
Relinquished B	Ino	Date: 7-27-23 Tirpe: 802 Date:			red By:	ra	d	la	ak	Sel.	Phone Re Fax Resu REMARK	It:	O Ye		No Add'l Fax #:
	: (Circle One) - Bus - Other:	Time:	#14	μ	Sample Cool Ye	Inta	act	n	CHECK (Initi		Please e	email r	result	s and	copy of CoC to pm@etechenv.com.



August 07, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact Project Number: 18296 Sample Received By: Shari Cisneros

MEWBOURNE UL/E SEC29 T18S-R30E Project Location:

#### Sample ID: SW 1 (H233983-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Analyzed By: JH/

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: SW 3 (H233983-02)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Analyzed By: JH/

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: SW 4 (H233983-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	a by. 511/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH/

Received: 07/28/2023 Reported: 08/07/2023 Sampling Date: 07/27/2023

Project Name:

Sampling Type: Soil

Project Number: 18296

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

SANTO NINO SWD RISER

#### Sample ID: SW 5 (H233983-04)

BTEX 8021B

	<u> </u>			· , · ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/28/2023 Reported: 08/07/2023 Sampling Date: 07/27/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Project Number: 18296

Sampling Condition: Cool & Intact Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

Sample ID: SW 6 (H233983-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



07/27/2023

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH/

07/28/2023 Sampling Date: Reported: 08/07/2023 Sampling Type:

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact Sample Received By: Project Number: 18296 Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 12 @ 4' (H233983-06)

Received:

BTEX 8021B

DIEX GOZID	1119/	- Kg	Allulyzo	u by. 311/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celecy D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact Sample Received By: Project Number: 18296 Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

#### Sample ID: FL 11 @ 4' (H233983-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Analyzed By: JH/

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: WW 1 (H233983-08)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH/

Received: 07/28/2023 Reported: 08/07/2023 Sampling Date: 07/27/2023 Sampling Type: Soil

Project Name:

BTEX 8021B

SANTO NINO SWD RISER

Sampling Condition: Cool & Intact

Project Number: 18296

Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 3 @ 3' (H233983-09)

DILX GOZID	ilig/	, kg	Allulyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/03/2023	ND	448	112	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	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Kreine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: NW 3 (H233983-10)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/04/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2023	ND	448	112	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	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 13 @ 4' (H233983-11)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	08/03/2023	ND	448	112	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	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 8 @ 4' (H233983-12)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/03/2023	ND	448	112	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	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: NW 4 (H233983-13)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/03/2023	ND	448	112	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	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 4 @ 3' (H233983-14)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 6 @ 3' (H233983-15)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Celey D. Keine



Shari Cisneros

Sample Received By:

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil
Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact

Project Number: 18296

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

#### Sample ID: FL 1 @ 2' (H233983-16)

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	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 10 @ 4' (H233983-17)

BTEX 8021B

DILX GOZID	ilig/ kg		Analyzea by: 145						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 % 71.5-13		4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MS

Received: 07/28/2023

Sampling Date: 07/27/2023

Reported: Project Name: 08/07/2023 Sampling Type: Soil SANTO NINO SWD RISER Sampling Condition: Cool

Project Number: 18296

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: NW 5 (H233983-18)

BTEX 8021B

DILX GOZID	ıııg,	- Kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 7 @ 4' (H233983-19)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: NW 6 (H233983-20)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



07/27/2023

Soil

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 07/28/2023 Sampling Date: Reported: 08/07/2023 Sampling Type:

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact Sample Received By: Project Number: 18296 Shari Cisneros

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

#### Sample ID: FL 9 @ 4' (H233983-21)

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	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/03/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### **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

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Celeg D. Keene

Released to Imaging: 2/14/2024 1:52:51 PM

# CARDINAL

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	npany Name: Mewbourne Oil Company ect Manager: Lance Crenshaw										LLTO				ANA	LYSIS	REQU	EST	
Project Manage	ess: 2617 W Marland BLVD							P.O.	#:										
Address: 261	17 W Marland BLVD							Com	pany	:	Etech Environmental	1							
City: Hobbs		State: NM	Zip	:	88240			Attn:	Lar	nce C	Crenshaw	1.				1			
Phone #: 575	5-396-2378 I	Fax #: 575-396-14	129					Addi	1955:	261	7 W Marland BLVD	1							
Project #: 182	296 1	Project Owner:	Me	wbo	ume Oil C	omr	pany	City:	Но	bbs		1							
	Santo Nino SWD Rise							-			Zlp: 88240								
-	n: UL/ E Sec 29 T18										i-396-2378	1					1 1		
Sampler Name:		Ovied Ontive	ros								8-1429	1							
FOR LAB USE ONLY					M	ATR	-	-	RESE	_							1 1		1
Lab I.D. Sample I.D.		I.D.	C)OMP.		SLUDGE	ACID/BASE: OTHER:  SEF / COOL  OTHER:		Chloride	ТРН	BTEX 8021									
1	SW 1		C	1	)	(			X		07/27/203	X	X	X					
2	SW 3		C	1		(			X		07/27/203	X	X	X					
3	SW 4	A	C	1	)	(		1	X		07/27/203	X	X	X					
4	SW 5		C	1	)	(			X	<b>N</b> .	07/27/203	X	X	X					
5	SW 6		C	1	)	(			X		07/27/203	X	X	X					
6	FL 12 @ 4'		C	1	)				X		07/27/203	X	X	X					
7	FL 11 @ 4'		C	1	)	(			X		07/27/203	X	X	X					
8	WW 1		С	1	)	(			X		07/27/203	X	X	X					
9	FL 3 @ 3'		C	1	)	(		1	X		07/27/203	X	X	X					
10	NW 3		C	1	)	(			X		07/27/203	IX	X	X					

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Relinquished By:	Date: 28/23	Received By:	Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:
Religious had By	Time: 10:40 Date:	May Concus	REMARKS:	Email res	sults to	lance@etechenv.com
required by.	Time:	A A	4 +			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-0.90	Sample Condition CHECKED BY:  Cool Intact  Yes Yes  No No				

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 9/28/2023 10:13:57 AM

# CARDINAL

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name	pany Name: Mewbourne Oil Company ct Manager: Lance Crenshaw								81	LL TO	-			ANALYSIS	REQUEST
Project Manage	r: Lance Crenshaw						P.	0. #:			1				
Address: 261	17 W Marland BLVD						C	mpar	ly:	Etoch Environmental	7/		1 [		
City: Hobbs	State: NM	Zig	);	8824	0			-	-	Crenshaw					
Phone #: 575										7 W Marland BLVD	1		1 1		
Project #: 182			ewh	ourne O	il Con	nanv			-						
	Santo Nino SWD Riser					· purry				Zip: 88240	1			1 1	
	n: UL/ E Sec 29 T18S - R30E									5-396-2378	1				
Sampler Name:		eme				A	-			6-1429	1				
FOR LAB USE ONLY	Total Office	T			MAT	RIX	1.0	PRES			4				
Lab I.D. H133983	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	- 12	DATE TIME	Chloride	ТРН	BTEX 8021		
11	FL 13 @ 4'	C	1		X			1	(	07/27/203	X	X	Х		
13	FL 8 @ 4'	C	1		X			)	5	07/27/203	X	X	X		
13	NW 4	C	1		X			1	(	07/27/203	X	X	X		
14	FL 4 @ 3'	C	1		X				(	07/27/203	X	X	X		
15	FL 6 @ 3'	C	1		X			)		07/27/203	X	X	X		
10	FL 1 @ 2'	C	1		X			1	(	07/27/203	X	X	X		
17	FL 10 @ 4'	C	1		X			)	(	07/27/203	X	X	X		
18	NW 5	C	1		X			2	(	07/27/203	/X	X	X		
19	FL 7 @ 4'	С	1		X			)	(	07/27/203	IX	X	X		
20	NW 6	C	1		X			)	(	07/27/203	X	X	X		

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Relinquished By:	Date: 28 23	Received By:		Phone Result: Fax Result:	☐ Yes	□ No □ No	Add'l Phone #: Add'l Fax #:
Melinquished By:	Date:	Now Cyne Réceived By:	(08)	REMARKS:	Email re	esults to	lance@etechenv.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-0.9	Sample Condition  Cool Intact  Yes Yes  No No	CHECKED BY:	1.0			

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 9/28/2023 10:13:57 AM

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Mewbourne Oil Company						T				LL TO						ANAL	YSIS	REQ	UEST			
Project Manage	er: Lance Crenshaw						1	2.0.	<b>:</b> :							-					= 1		
Address: 261	17 W Marland BLVD						0	om	pany	7:	Elech Environme	intal	1		1								
City: Hobbs	State: NM	Zij	<b>o</b> :	8824	10		1	Attn:	Lar	nce C	Crenshaw		1		1								
Phone #: 575	5-396-2378 Fax #: 575-396-	1429					1	ddn	9 <b>\$</b> \$:	261	7 W Marland	BLVD											
Project #: 182	296 Project Owner:	M	ewbo	ume	Oil Co	mpan	y C	ity:	Ho	bbs			1										
Project Name:	Santo Nino SWD Riser						5	tate	: NA	A	Zip: 88240		1				1						1
	n: UL/ E Sec 29 T18S - R30E						F	hon	e #:	575	-396-2378		1				1 1						
Sampler Name:	Ovied Ontiv	eros					F	ax#	: 575	5-396	3-1429		1		1								
FOR LAB USE ONLY		T		- ,	MA	TRIX		Pf	RESE	RV.	SAMPLIN	G	1,			1							1
Lab I.D. H233983	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021								
21	FL 9 @ 4'	C	1		X			T	X		07/27/203		Х	Х	X								
		F						+	-			A	•									-	
		1			1		1	1															1
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		1			-		_	1	-				-									-	
		1						1			1												
analyses. All claims includi service. In no event shall C	nd Damages Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall b ardinal be liable for incidental or consequental damages, including a consequent of the consequ	e destruc	t testes	urdqaa on, bud	nado in 1915 irila	uniling o mupifon	and rec s, loss	ehead by of use,	or toon	ad profit	in 30 days after on its incurred by clien	impletion of the E. its subsidierle	applicable sa,										
Relinguished By	ing out of or related to the performance of services hereunder by  V:  Date:			ed B		nich die	n is be	and upo	on any (	of the p		Phone Re		D Ye	8 [	No	Add'i P	hone #					-

Relinquished By:	Date: 128/23	Received By:		Phone Result: Fax Result:	☐ Yes ☐ No☐ Yes ☐ No☐	Add'i Phone #: Add'i Fax #:	
I amount pendu	Time: 40	May (1)	news	REMARKS:	Email results to	lance@etechenv.com	
Relinquished By:	Date:	Received By:		,			
	Time:			35			
Delivered By: (Circle One)		#14 Sample Condition					
Sampler - UPS - Bus - Other:	-0.4	Cool Intact Pes Pyes No P No	(initials)				

.

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0



August 07, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 13:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

#### Sample ID: WW 2 (H233994-01)

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	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/04/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: SW 7 (H233994-02)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/04/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: EW 1 (H233994-03)

BTEX 8021B

	9/	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	130	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 07/28/2023 Sampling Date: 07/27/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

mg/kg

#### Sample ID: FL 14 @ 4' (H233994-04)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/04/2023	ND	416	104	400	3.77	
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	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### **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. Freene

## RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project #: /8	296 Pro	ject Owner,	40	ساع	60	whe	2	City	r. 6	100	ringtoo	1							
Project Name:	Santo Nino 30	V17 /3	1	se				Sta	to:/	IM	Zip: 82	8260	1.	TPH (8015M)	STEX (8021B)				
Project Location	: UL/6 sec Z	9 118	75	-	33	OE		Pho	ne £	. 5	75-39	6-2318	불	801	(80)				
Sampler Name:	Ovied Onti	veros						Fax	#: 5	73	5-316-1	424	3	Ě	E				
FOR LAB USE ONLY						MATE	RIX		PRES	ERV.	SAMPL	NG	1	F	B				
Lab I.D.	Sample I.D.	*	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	Ш	ACID/BASE:	OTHER:	DATE	THME		,					
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FORM-006 Revision 1.0

Received by OCD: 9/28/2023 10:13:57 AM

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



August 08, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 08/07/2023 Sampling Date: 08/07/2023

Reported: 08/08/2023 Sampling Type: Soil
Project Name: SANTO NINO SWD RISER Sampling Condition: Cool

Project Name: SANTO NINO SWD RISER Sampling Condition: Cool & Intact
Project Number: 18296 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE UL/E SEC29 T18S-R30E

#### Sample ID: NW 6C (H234185-01)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2023	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### **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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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## RDINAL LABORATORIES

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

Company Name									BILLETO						ANALYSIS REQUEST					
Project Manage	roject Manager: Lance Crenshaw								P.O. #:											
Address: 2617 West Marland							1	Company Etech			th	1								
City: Hobbs		State: NM	Zip	882	240				Attn: Lance Crens Address:				shaw							
Phone #: (57	(5) 264-9884	Fax #:											Address:							
Project #: 182	296	Project Owner	r:	Me	wbo	urne			Aty	<b>/</b> :				A .						
Project Name:	Santo Nino SWD Rise	er							Stat	te: N	IM	Zip:			€ W	BTEX (8021B)				
roject Locatio	n: Rural Eddy Count	y, NM							Pho	one #:				Chloride	TPH (8015M)	(80)				
Sampler Name:	: Matthew Grieco								Fax	#:			110-13	등	Ĭ	Ä				
FOR LAB USE ONLY				П	-	MA	TRI)	(	1	PRESE	RV.	SAMPL	ING	0	=	<b>B</b>				
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FORM-006 Revision 1.0

Received by OCD: 9/28/2023 10:13:57 AM

Page 4 of 4

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

## Appendix E Regulatory Correspondence

From: Velez, Nelson, EMNRD

To: Lance Crenshaw

Cc: cwalker@mewbourne.com; jbroom@mewbourne.com; Ben Arguijo; Matthew A. Grieco; Bratcher, Michael,

EMNRD; Hamlet, Robert, EMNRD

**Subject:** Extension request for projects: Santo Nino SWD Line (NMOCD Incident # nAPP2316042324) and the Mckamey

Fed #1Y (nAPP2316627313)

Date: Wednesday, August 2, 2023 8:42:14 AM

Attachments: Outlook-ol0aob5r.png

Some people who received this message don't often get email from nelson.velez@emnrd.nm.gov. <u>Learn why this is important</u>

Good morning Lance,

Your 30-day (September 29, 2023) time extension request is approved. Remediation Due date has been updated for both incidents.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



previous email submittal;

From: Lance Crenshaw <lance@etechenv.com>

**Sent:** Tuesday, August 1, 2023 10:48 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>; Connor Walker

<cwalker@mewbourne.com>; jbroom@mewbourne.com

Cc: Ben Arguijo <bena@etechenv.com>; Matthew A. Grieco <matthewg@etechenv.com>

**Subject:** [EXTERNAL] Extension request for projects

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau.

Mewbourne Oil Company (Mewbourne) has contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the releases known as the Santo Nino SWD Line (NMOCD Incident # nAPP2316042324) and the Mckamey Fed #1Y (nAPP2316627313). Both are located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report is due for the Santo Nino release on **August 28, 2023 and on the McKamey release on August 31, 2023**. Etech has started excavation activities at the Santo Nino SWD Line and plans to move to the McKamey directly following the completion of remediation activities at the Santo Nino. We are also working another release for Mewbourne, the Chile Verde Water Transfer Line, which most of our crews are dedicated to. We just want to make sure we get everything done in a timely manner and are able to meet deadlines, with multiple crews working.

In consideration of this, Etech, on behalf of Mewbourne, requests a **30 day extension** until **Friday, September 29, 2023**, to allow us to fully excavate the sites, gather excavation confirmation samples, backfill the site and prepare a site closure request.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

From: <u>Lance Crenshaw</u>

To: Enviro, OCD, EMNRD; Ben Arguijo; jbroom@mewbourne.com; Connor Walker

Subject: Confirmation Sampling Notification

Date: Wednesday, July 26, 2023 4:36:57 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on July 31, 2023, from the following locations/reportable release sites:

Mewbourne Oil Co – Jennings Battery- nAPP2316570980 Mewbourne Oil Co – Santo Nino SWD Line - nAPP2316042324

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email <a href="mailto:lance@etechenv.com">lance@etechenv.com</a>

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 270006

#### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	270006
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316042324 SANTO NINO SWD RISER, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/14/2024