

Volume calculator

There was no volume calculator prepared when the spill occurred.



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Carlsbad, New Mexico 88220
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July 12, 2024

Ashley Maxwell
Environmental Specialist
Oil Conservation Division, District 2
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Closure Request Report
Trionyx Containment and Recycling Facility
Devon Energy Production Company
Unit P-02-25S-31E
Site Coordinates: 32.153988, -103.740529
Eddy County, New Mexico
Incident ID: nAB1534338732

1. Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Closure Request Report for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment and sample analysis results for the Trionyx Containment and Recycling Facility (Site). The Site is located in Unit Letter P, Section 02, of Township 25 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.153988° N latitude and 103.740529° W longitude. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

2. Background

Based on the Release Notification C-141 Form, the release occurred on November 14th, 2015, when the nipple leading into the bulkhead fitting on the caustic tank failed and spilled into the containment and onto the pad. Approximately 50 barrels (bbls) of sodium hydroxide were released, of which 47.6 bbls were recovered for a net loss of 2.4 bbls of sodium hydroxide. Upon discovery a vac-truck was mobilized to recover all standing fluids in the containment, contractors shoveled dirt onto the pad spill area and removed impacted soils, and the area was secured. Afterwards, the site was excavated with the impacted soil transported offsite to an approved disposal facility. The release area is shown in Figure 3.

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3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source (C-03830) within a ½-mile radius of the Site. The well (C-03830) was drilled in 2015 to 450 feet below ground surface (ft bgs) with groundwater first encountered at 300 ft bgs. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Attachment A.

NTGE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	300

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release (>4 Feet)	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Liner Inspection and Initial Soil Delineation Assessment

On February 8th, 2024, NTGE conducted site assessment activities to assess the integrity and state of the secondary containment liner. Upon inspection it was noted that the liner was free of any standing fluids, however a total of six (6) breaches were found in the liner. A part of the southern wall of the secondary containment was missing. Devon personnel expressed that the facility is going to be decommissioned at a later date and therefore the whole secondary containment liner will be removed with the facility.

On February 22, 2024, NTGE notified the NMOCD that the facility liner will be inspected on February 27, 2024. The NMOCD acknowledged the notification in an email the same day.

As per the notification, on February 27th, 2024, NTGE returned to the site to assess the extent of the impacts at the Site in the breached and surrounding areas of the secondary containment liner. Six (6) sample points (S-1 through S-6) were installed within a secondary containment to address

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every breach in the liner, as well as four (4) sample points (S-7 through S-10) installed around the secondary containment area to characterize the impacts of the spill. Two (2) background sample points (BG-1 and BG-2) were installed outside of the area of concern to provide natural background levels of pH. Soil samples were collected in half to one (0.5-to-1) ft intervals from depths ranging from zero (0) to three and a half (3.5) ft bgs with a geotechnical hand auger. The samples were analyzed for pH by Cardinal Laboratories in Hobbs, New Mexico.

The analytical results indicated that the pH levels of all samples collected in the area of concern were close to the pH of natural background levels. Analytical results are included in Table 1, while soil boring locations are shown in Figure 3.

Based on the above data, Devon requested a closure request based on the data presented in the report. In an email dated March 12, 2024, the NMOCD rejected the closure and stated "If sodium hydroxide is not found within these documents, you will need to submit a plan that does address the constituent. Certainly, pH is an element of this, however, pH alone is not sufficient. If sodium hydroxide is not found within bounds of 19.15.29.11 A 5 (e), addressing the sodium would be acceptable. Cations/anions and Na concentrations compared to background sample(s) will provide information. Any supplemental information you can provide from the manufacturer and/or lab will aid in the reviewing process for closure. The operator remains responsible for submitting a sample plan as part of remediation plan for approval. Once a remediation plan has been approved, sampling can proceed provided that proper notification is made. In this case, both liner inspection and sampling notifications are required." In addition, the NMOCD stated the following, "19.15.29.11 A 5 (e) NMAC If a known release of other oil field related chemicals occurs that is not included in Table I of 19.15.29.12 NMAC, and does not include oil, gas, produced water or other fluids from the well stream, the standards for remediation shall be as follows:(i) if the constituent appears on Table 1 of 40 C.F.R. 261.24(b), then that constituent shall be remediated according to 40 C.F.R. 261.24; (ii) if the constituent is not identified in Table 1 of 40 CFR. 261.24(b), but is identified in the NM environment department's Risk Assessment Guidance for Site Investigations and Remediation Volumes I and II assessment, the division will determine the appropriate Assessment Volume and remediation shall occur pursuant to the assessment; (iii) if the constituent is not identified in Items (i) or (ii) of Subparagraph (e) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC the division shall consult with the responsible party to determine appropriate remediation of the release. In addition, the NMOCD requested a workplan to address the potential for remediation and additional sampling.

On April 10, 2024, NTGE submitted a report entitled "*Site Assessment and Sampling Work Plan*," proposing to install six borings to a maximum depth of four (4) feet bgs in the six (6) liner breaches along with composite samples in the initial release area to four (4) ft bgs and submit for analysis. The plan was approved by the NMOCD in an email dated April 11, 2024.

On April 18, 2024, NTGE was onsite to collect six (6) grab samples in the vicinity of the six (6) breaks within the liner to a depth of four (4) ft bgs and submitted for analysis of inorganic compounds and total metals by ICP. In addition, four (4) additional composite samples (P-7 to P10) at 4 ft bgs based on a 200 square foot sampling grid were collected along with four (4) composite wall samples (SW-1 to SW-4) at 0 to 4 ft bgs. In addition, three (3) background samples were collected at surface. All samples were submitted for analysis to Cardinal Laboratories of Hobbs, New Mexico for analysis of Inorganic Compounds and Total Metals by ICP. Analytical

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results were within range with background samples for soil samples P-7 through P-10 which was in the area of the initial sodium hydroxide release, indicating the soils have been remediated. The soils in the area of the liner tears had some elevated calcium, magnesium and sulfate (i.e. P-1 @ 0-2.5', P-3 @ 0-2). Since calcium, magnesium and sulfates are not regulated, no cleanup numbers exist and therefore do not pose an environmental liability to the property. The only sample to exceed NMOCD regulations was a chloride sample P-4 @ 0-0.5' bgs which had a concentration of 672 milligrams per Kilogram (mg/Kg) and was delineated with 1-1.5' with a concentration of 32 mg/Kg. The NMOCD requested the background samples be placed at a different location.

On May 30, 2024, NTGE was onsite to recollect three (3) background samples (BG-1 through BG-3) at surface level. All samples were submitted for analysis to Cardinal Laboratories in Hobbs, New Mexico for analysis of Inorganic Compounds and Total Metals by ICP. Analytical results showed that all sample analysis were below NMOCD regulatory criterion for the Site. However, the NMOCD rejected the background samples results due to location.

On June 25, 2024, NTGE was onsite to recollect three (3) background samples (BG-1 through BG-3) at surface level. All samples were submitted for analysis to Cardinal Laboratories in Hobbs, New Mexico for analysis of Inorganic Compounds and Total Metals by ICP. Analytical results showed that all sample analysis were below NMOCD regulatory criterion for the Site. See Table 2 and Figure 4 detailing sample locations.

5. Closure Request Report

Based on the assessment, the Site is compliant with the regulatory limits and no further actions are required at the site with the exception of the elevated chloride result at P-4 @ 0-0.5'. Since this sample is located within the liner area and adjacent to onsite active equipment, Devon proposes to leave the elevated chlorides in-situ until the site is either decommissioned or an upgrade to the facility occurs at which time the area will be accessible for remediation. On behalf of Devon, NTGE formally requests a no further action designation with closure to Incident ID: nAB1534338732. If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,

NTG Environmental

Ethan Sessums
Project Manager

Attachments:

- Tables
- Figures
- Site Characterization Documentation
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 248254



TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Trionyx Containment and Recycling Facility
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	pH	Temperature °C
Delineation Samples				
S-1	2/27/2024	0-0.5'	8.31	20.1
	2/27/2024	1-1.5'	8.40	20.4
	2/27/2024	2-2.5'	8.90	20.4
	2/27/2024	3-3.5'	8.67	20.3
S-2	2/27/2024	0-0.5'	8.71	20.2
	2/27/2024	1-1.5'	8.97	20.3
	2/27/2024	2-2.5'	9.14	20.1
	2/27/2024	3-3.5'	8.98	20.3
S-3	2/27/2024	0-0.5'	8.98	20.1
	2/27/2024	1-1.5'	9.07	20.1
	2/27/2024	2-2.5'	9.09	19.8
	2/27/2024	3-3.5'	8.99	19.7
S-4	2/27/2024	0-0.5'	9.15	19.7
	2/27/2024	1-1.5'	9.05	19.7
	2/27/2024	2-2.5'	9.14	19.7
	2/27/2024	3-3.5'	9.04	19.6
S-5	2/27/2024	0-0.5'	9.17	19.8
	2/27/2024	1-1.5'	9.13	19.8
	2/27/2024	2-2.5'	8.84	19.7
	2/27/2024	3-3.5'	9.07	19.6
S-6	2/27/2024	0-0.5'	8.94	21.4
	2/27/2024	1-1.5'	8.95	21.2
	2/27/2024	2-2.5'	8.91	21.0
	2/27/2024	3-3.5'	9.02	21.0
S-7	2/27/2024	0-0.5'	8.99	21.0
	2/27/2024	1-1.5'	9.08	21.1
	2/27/2024	2-2.5'	9.01	21.1
	2/27/2024	3-3.5'	9.19	21.4
S-8	2/27/2024	0-0.5'	9.15	21.6
	2/27/2024	1-1.5'	9.13	21.2
	2/27/2024	2-2.5'	8.74	21.0
	2/27/2024	3-3.5'	9.07	20.9
S-9	2/27/2024	0-0.5'	8.95	21.1
	2/27/2024	1-1.5'	8.83	21.0
	2/27/2024	2-2.5'	8.95	21.3
	2/27/2024	3-3.5'	8.92	21.1
S-10	2/27/2024	0-0.5'	9.04	21.5
	2/27/2024	1-1.5'	8.79	21.6
	2/27/2024	2-2.5'	8.82	21.1
	2/27/2024	3-3.5'	9.00	20.9
Background Samples				
BG-1	2/27/2024	0-0.5'	8.31	20.9
BG-2	2/27/2024	0-0.5'	8.14	20.9

Notes:

1. Bold indicates Analyte Detected

Table 2
Summary of Soil Analytical Data - Delineation Samples
Trionyx Containment and Recycling Facility
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Alkalinity, Bicarbonate (mg/Kg)	Alkalinity Carbonate (mg/Kg)	Chloride (mg/Kg)	Conductivity (umhos/cm)	pH	Temperature (°C)	Sulfate (mg/Kg)	Alkalinity, Total (mg/Kg)	Calcium (mg/Kg)	Magnesium (mg/Kg)	Potassium (mg/Kg)	Sodium (mg/Kg)
NMED Cleanup Standards			--	--	20,000	--	--	--	--	--	--	--	--	--
Delineation Samples														
P-1	04/18/24	0-0.5'	996	<4.00	32	182	8.17	19.0	63.9	816	152,000	51,400	589	<200
	04/18/24	1-1.5'	1,210	<4.00	16	167	8.53	18.9	68.9	992	123,000	11,700	863	<200
	04/18/24	2-2.5'	644	<4.00	16	158	8.39	18.9	49.9	528	119,000	8,950	928	<200
	04/18/24	3-3.5'	800	64	32	436	8.62	18.8	12,700	864	7,360	1,920	1,650	351
	04/18/24	4-4.5'	1,020	128	16	414	8.57	18.8	12,600	1,150	1,910	2,220	2,490	624
P-2	04/18/24	0-0.5'	684	<4.00	96	892	7.58	18.8	187	560	40,300	2,210	506	<200
	04/18/24	1-1.5'	916	<1.00	48	755	7.60	18.9	218	752	45,300	2,010	553	<200
	04/18/24	2-2.5'	624	160	32	437	9.01	18.8	8,770	784	2,130	1,120	1,500	356
	04/18/24	3-3.5'	944	192	32	524	8.84	18.8	7,280	1140	15,200	2,630	1,490	361
	04/18/24	4-4.5'	4,340	<4.00	80	681	8.38	18.8	654	3,560	76,600	4,100	1,230	333
P-3	04/18/24	0-0.5'	880	<4.00	16	169	8.44	19.4	44.2	720	114,000	11,700	828	<200
	04/18/24	1-1.5'	1,150	<4.00	<16	169	8.55	19.0	63.6	944	111,000	11,400	834	<200
	04/18/24	2-2.5'	880	<1.00	32	200	8.38	19.0	144	720	57,400	2,400	1,180	<200
	04/18/24	3-3.5'	800	160	16	396	8.64	19.0	8,410	960	10,100	2,610	1,840	401
	04/18/24	4-4.5'	1,010	160	32	430	8.61	19.0	11,900	1,170	23,300	1,720	818	<200
P-4	04/18/24	0-0.5'	372	<4.00	672	2,580	7.30	19.0	268	304	44,300	1,910	508	328
	04/18/24	1-1.5'	820	<4.00	32	372	8.63	18.9	1,040	672	22,100	5,170	775	<200
	04/18/24	2-2.5'	1,060	96	80	533	8.73	18.9	1,430	1,150	20,500	6,100	1,030	264
	04/18/24	3-3.5'	8,590	<4.00	64	513	8.96	18.8	3,350	7,040	71,400	5,840	2,980	874
	04/18/24	4-4.5'	5,950	<4.00	48	523	8.91	19.0	4,160	4,880	70,100	6,230	1,060	322
P-5	04/18/24	0-0.5'	312	<4.00	544	2,450	7.22	19.2	247	256	36,900	3,070	516	299
	04/18/24	1-1.5'	896	<4.00	96	389	8.76	19.4	1,560	736	12,200	2,500	825	<200
	04/18/24	2-2.5'	1,060	64	64	458	8.99	19.4	4,970	1,120	25,600	5,890	988	243
	04/18/24	3-3.5'	2,690	192	48	527	9.02	19.2	6,480	2,880	20,900	3,680	1,840	567
	04/18/24	4-4.5'	10,100	<4.00	64	562	8.84	19.1	4,280	8,240	62,200	5,300	1,140	346
P-6	04/18/24	0-0.5'	372	<4.00	480	2,300	7.41	19.1	246	304	39,000	4,450	552	295
	04/18/24	1-1.5'	640	32	112	474	8.52	19.1	1,950	672	20,500	5,230	771	<200
	04/18/24	2-2.5'	960	160	32	532	8.94	19.0	11,600	1,120	18,400	3,360	1,200	313
	04/18/24	3-3.5'	4,410	<4.00	48	536	8.97	19.0	4,870	3,640	17,100	5,960	2,170	725
	04/18/24	4-4.5'	8,590	<4.00	80	546	8.86	18.7	6,460	7,040	70,100	6,100	985	300
P-7	04/18/24	4'	468	<4.00	48	265	7.77	19.1	220	384	24,400	1,170	694	<200
P-8	04/18/24	4'	568	<4.00	64	359	7.83	19.1	201	464	24,600	1,130	680	<200
P-9	04/18/24	4'	568	<4.00	64	372	7.83	19.1	280	464	24,500	1,080	707	<200
P-10	04/18/24	4'	428	<4.00	64	360	7.82	19.1	232	352	21,800	1,140	673	<200
Wall Samples														
SW-1	04/18/24	0-4'	508	<4.00	48	369	7.80	19.0	228	416	21,100	1,030	625	<200
SW-2	04/18/24	0-4'	448	<4.00	80	393	7.77	18.9	132	368	21,900	1,170	644	<200
SW-3	04/18/24	0-4'	448	<4.00	64	384	7.81	18.7	102	400	26,600	1,130	598	<200
SW-4	04/18/24	0-4'	528	<4.00	48	339	7.83	18.8	191	432	21,400	1,170	668	<200

Table 2
Summary of Soil Analytical Data - Delineation Samples
Trionyx Containment and Recycling Facility
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Alkalinity, Bicarbonate (mg/Kg)	Alkalinity Carbonate (mg/Kg)	Chloride (mg/Kg)	Conductivity (umhos/cm)	pH	Temperature (°C)	Sulfate (mg/Kg)	Alkalinity, Total (mg/Kg)	Calcium (mg/Kg)	Magnesium (mg/Kg)	Potassium (mg/Kg)	Sodium (mg/Kg)
NMED Cleanup Standards			--	--	20,000	--	--	--	--	--	--	--	--	--
Background Samples														
BG-1	04/18/24	Surface	488	<4.00	48	392	7.76	18.5	182	400	22,900	1,200	628	<200
BG-2	04/18/24	Surface	508	<4.00	80	395	7.76	18.3	213	416	26,100	1,110	590	<200
BG-3	04/18/24	Surface	548	<4.00	48	371	7.64	18.9	163	448	23,400	1,090	638	<200
BG-1	05/30/24	Surface	332	<4.00	<16.0	161	7.93	23.1	417	272	6,770	556	688	<200
BG-2	05/30/24	Surface	390	<4.00	16.0	163	8.07	22.7	395	320	8,620	613	524	<200
BG-3	05/30/24	Surface	390	<4.00	32.0	170	8.10	22.7	329	320	16,500	642	541	<200
BG-1	06/25/24	Surface	429	<4.00	16.0	206	7.92	21.6	413	352	26,300	863	487	<200
BG-2	06/25/24	Surface	468	<4.00	16.0	192	8.06	21.6	431	384	24,600	712	432	<200
BG-3	06/25/24	Surface	566	<4.00	<16.00	133	8.28	21.6	434	464	39,000	1,180	473	<200

Notes:

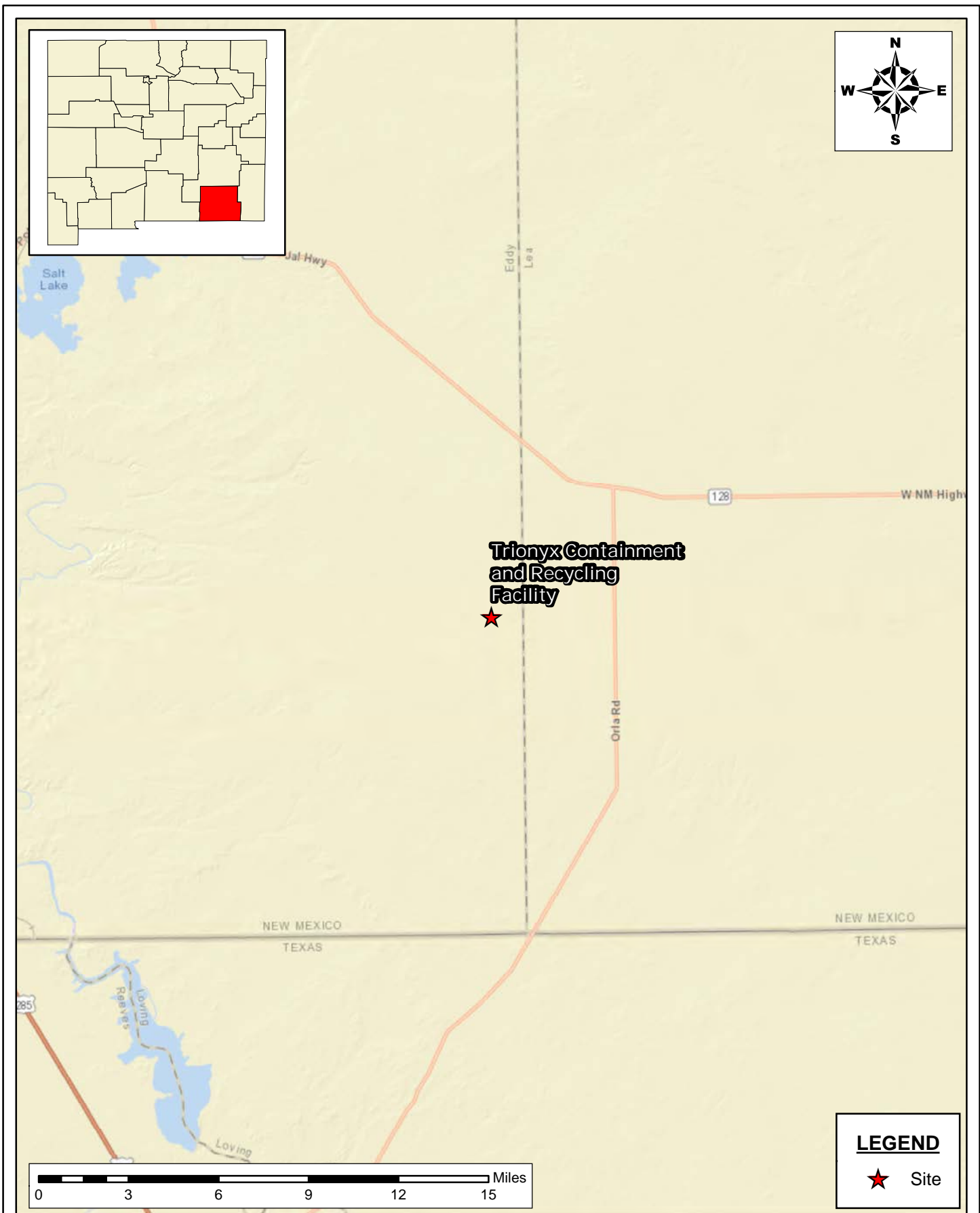
1. Bold indicates Analyte Detected



Above NMOC standards

FIGURES

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SITE LOCATION MAP
SITE CHARACTERIZATION AND CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
TRIONYX TREATED FRAC POND
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 1/31/2024

PROJECT #: 248254



New Tech Global Environmental, LLC
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Web: www.ntgenviroinmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

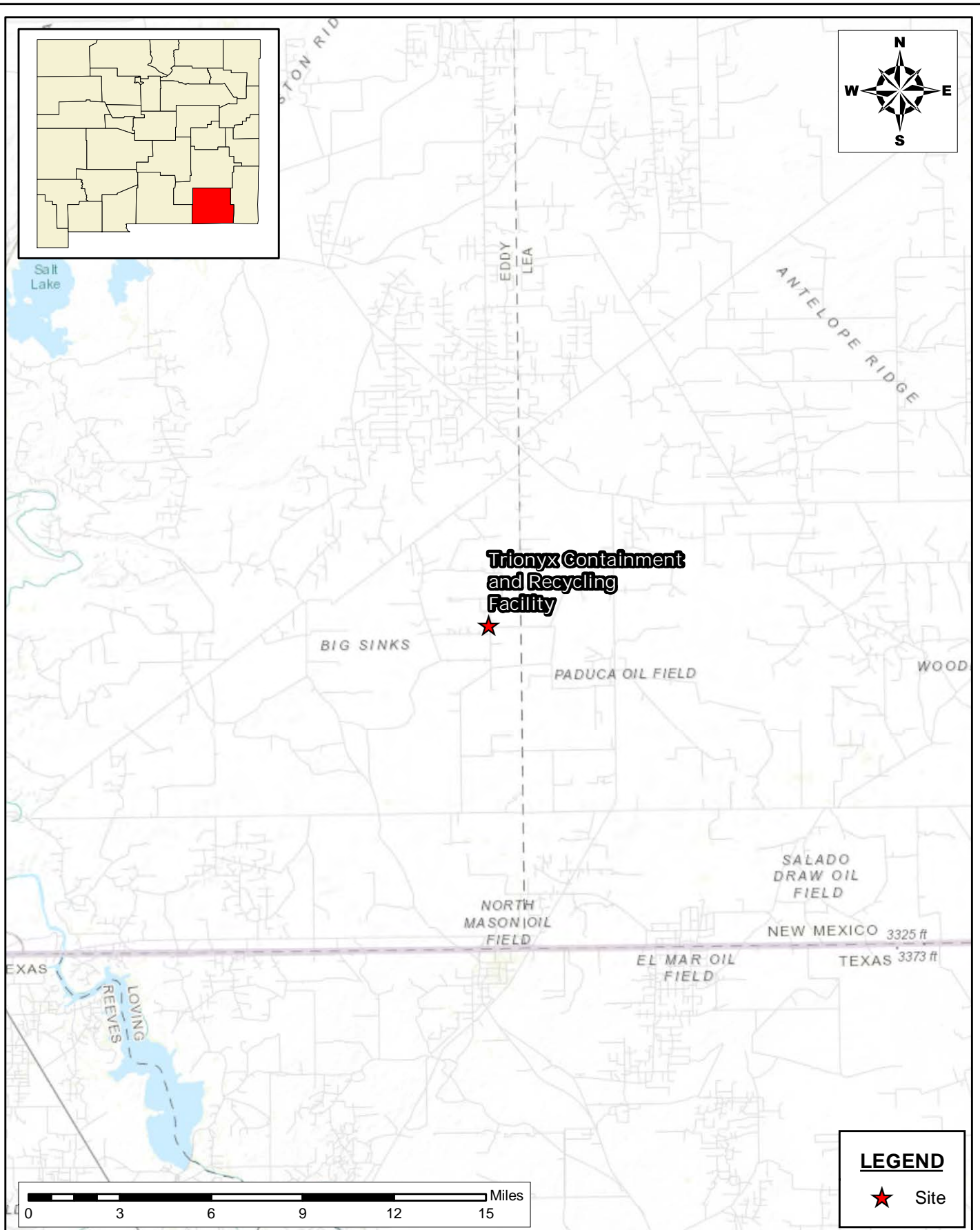
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FIGURE 1

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TOPOGRAPHIC MAP
 SITE CHARACTERIZATION AND CLOSURE REPORT
 DEVON ENERGY PRODUCTION COMPANY
 TRIONYX TREATED FRAC POND
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 1/31/2024 PROJECT #: 248254

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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

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FIGURE 2


SHEET NUMBER:

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LEGEND

 Area of Concern

RELEASE MAP
CLOSURE REPORT
DEVON ENERGY PRODUCITON COMPANY
TRIONYX TREATED FRAC POND
EDDY COUNTY, NEW MEXICO

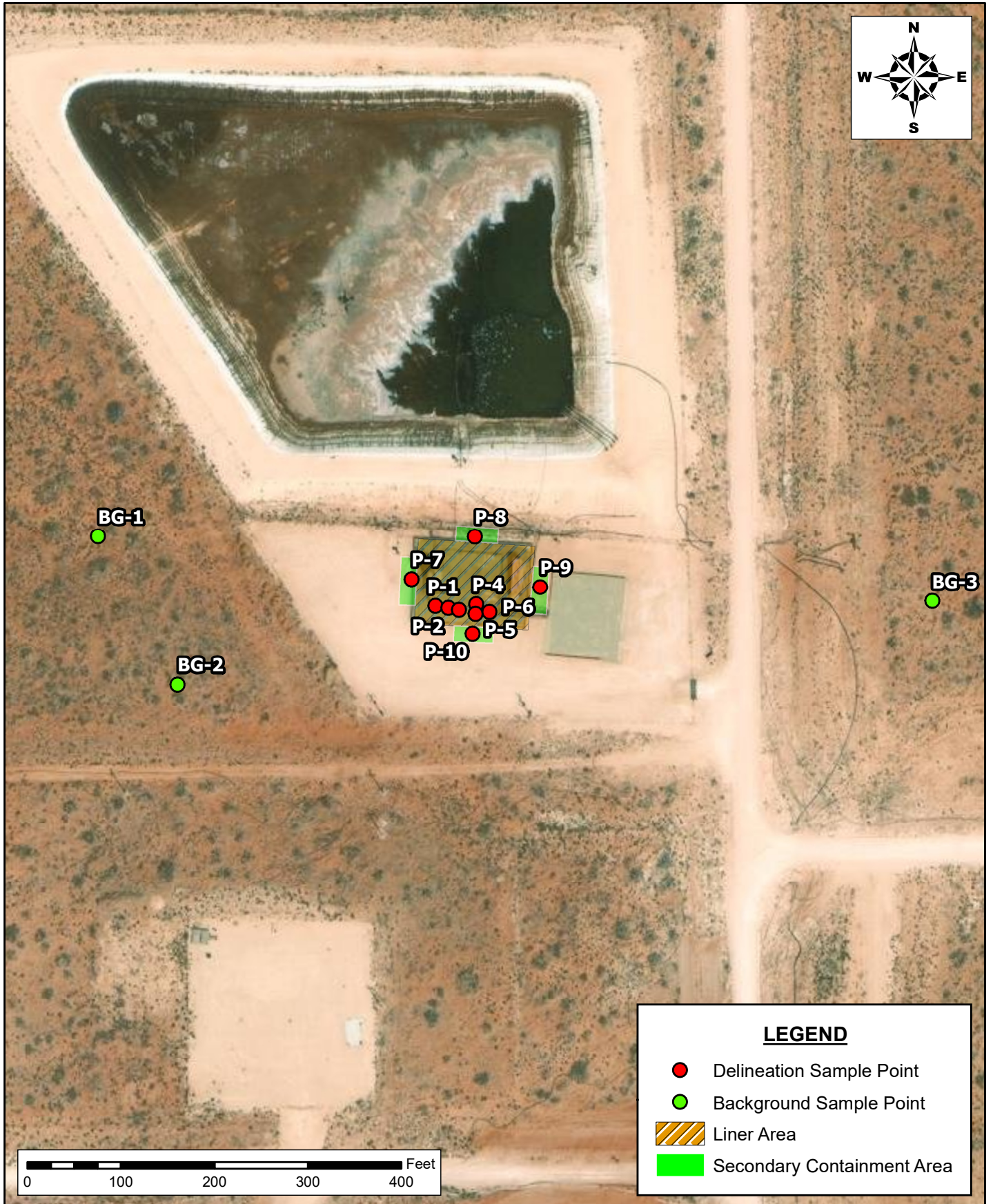
SCALE: As Shown Date: 7/11/2024 PROJECT #: 248254


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NOTES:
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2. Map Projection: NAD 1983

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FIGURE 3
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LEGEND

- Delineation Sample Point
- Background Sample Point
- Liner Area
- Secondary Containment Area

DELINEATION SAMPLE MAP
CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
TRIONYX TREATED FRAC POND
EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 7/12/2024 PROJECT #: 248254

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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1

SITE CHARACTERIZATION INFORMATION

NMOCD Closure Criteria

Triony Containment and Recycling Facility

Site Information (19.15.29.11.A (2,3, & 4) NMAC)		Source/Notes
Depth to Groundwater (ft bgs)	450	Office of the State Engineer (OSE)
Horizontal Distance from All Water Sources Within 0.5 mile (ft)		National Wetlands Inventory (NWS)
Horizontal Distance to Nearest Significant Watercourse (ft)		National Wetlands Inventory (NWS)

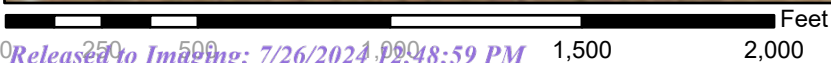
Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater (ft)		Closure Criteria (mg/kg)				
		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50		600	100	--	50	10
51 - 100		10,000	2,500	1,000	50	10
>100	x	20,000	2,500	1,000	50	10
Surface Water	Yes/No	in yes, then				
<300 ft from a continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200 ft from a lakebed, sinkhole, or playa lake?	No					
Water Well or Water Source						
<500 ft from a spring or a private, domestic fresh waster well used by less that 5 households for domestic or livestock purposes?	No					
<1,000 ft from a fresh water well or spring?	No					
Human and Other Area						
<300 ft from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100 ft from a wetland?	No					
Within an area overlying a subsurface mine?	No					
Within and unstable area?	No					
Within a 100 yr floodplain?	No					

* - numerical limit or background, whichever is greater

National Flood Hazard Layer FIRMette



103°44'47"W 32°9'33"N



1:6,000

103°44'10"W 32°9'12"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

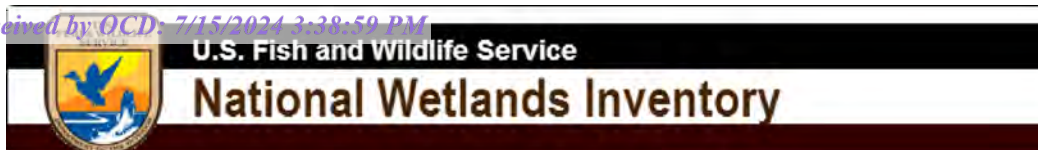


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/31/2024 at 12:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Wetlands



January 31, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond




- Lake
- Other
- Riverine

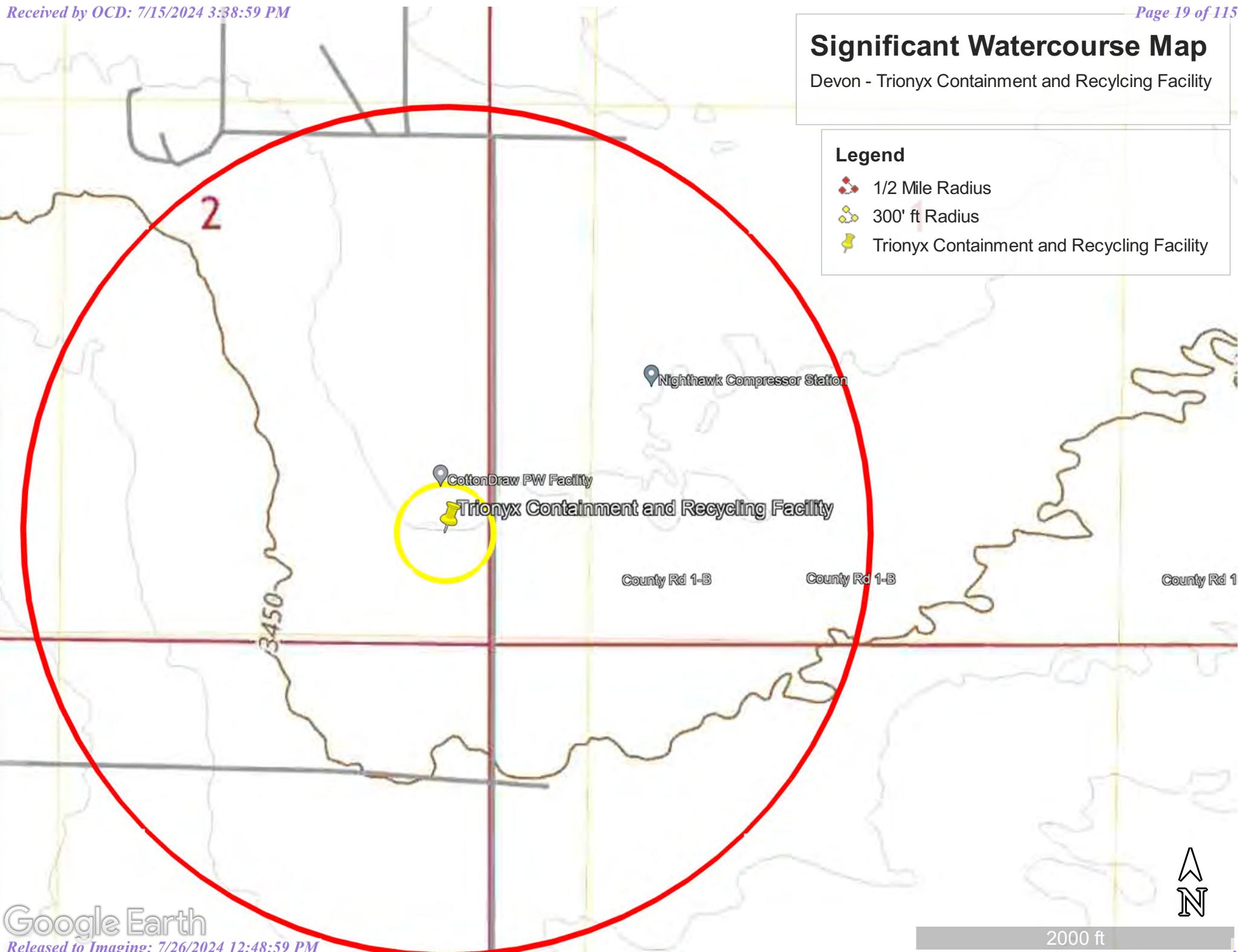
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Significant Watercourse Map

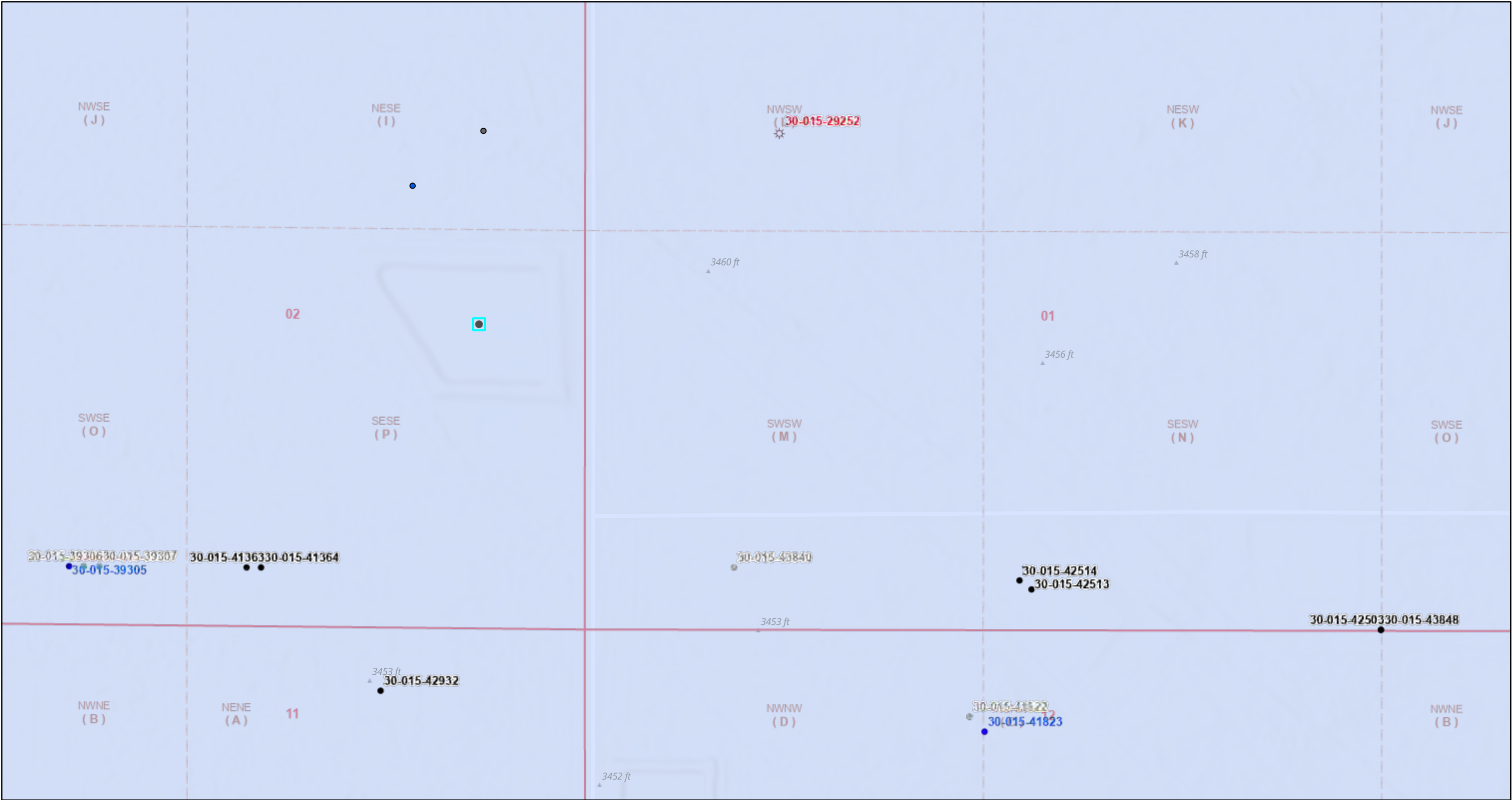
Devon - Trionyx Containment and Recycling Facility

Legend

-  1/2 Mile Radius
-  300' ft Radius
-  Trionyx Containment and Recycling Facility



OCD Well Locations



1/31/2024, 10:44:34 AM

OSE Water PODs Wells - Large Scale

Oil, New

Active

Unknown

Gas, Plugged

Oil, Active

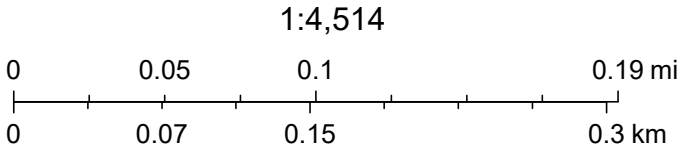
Oil, Cancelled

Karst Occurrence Potential

Low

PLSS Second Division

PLSS First Division



BLM, OCD, New Mexico Tech, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Oil Conservation

OSE POD Location Map



1/31/2024, 11:02:27 AM

GIS WATERS PODs

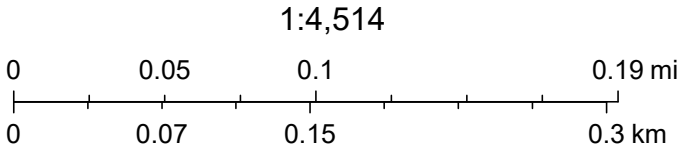
Active

New Mexico State Trust Lands

Subsurface Estate

OSE District Boundary

Both Estates




Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03830 POD1	4	2	4	02	25S	31E	618632	3558432 
x									
Driller License:	1607	Driller Company:		DURAN DRILLING					
Driller Name:	DURAN, LUIS A.								
Drill Start Date:	01/28/2015	Drill Finish Date:		02/02/2015		Plug Date:			
Log File Date:	02/23/2015	PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:		15 GPM	
Casing Size:	7.00	Depth Well:		450 feet		Depth Water:			
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				348	378	Sandstone/Gravel/Conglomerate			
				384	448	Sandstone/Gravel/Conglomerate			
x									
Casing Perforations:				Top	Bottom				
				220	450				
x									

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.

1/31/24 10:47 AM

POINT OF DIVERSION SUMMARY

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG
Devon Energy Production Company
Trionyx Containment and Recycling Facility

Photograph No. 1

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.

**Photograph No. 2**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.

**Photograph No. 3**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



PHOTOGRAPHIC LOG
Devon Energy Production Company
Trionyx Containment and Recycling Facility

Photograph No. 4

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.

**Photograph No. 5**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.

**Photograph No. 6**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



PHOTOGRAPHIC LOG
Devon Energy Production Company
Trionyx Containment and Recycling Facility

Photograph No. 7

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.

**Photograph No. 8**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.

**Photograph No. 9**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
View of background sampling area



PHOTOGRAPHIC LOG
Devon Energy Production Company
Trionyx Containment and Recycling Facility

Photograph No. 10

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:

View of Background Sampling Area

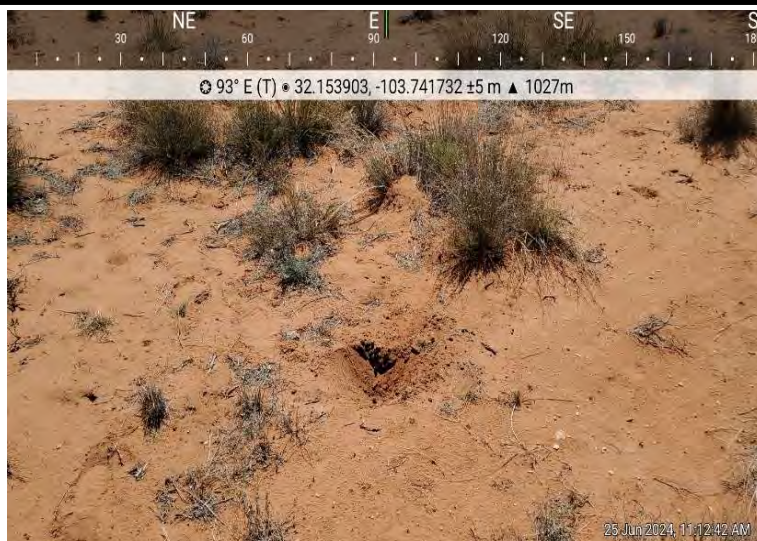
**Photograph No. 11**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:

View of Background Sampling Area

**Photograph No. 12**

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:

View of Background Sampling Area



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

May 09, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: TRIONYX CONTAINMENT AND RECYLING FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 04/19/24 11:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P - 1 0-6"	H242107-01	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 1 1-1.5	H242107-02	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 1 2-2.5	H242107-03	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 1 3-3.5	H242107-04	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 1 4-4.5	H242107-05	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 2 0-6"	H242107-06	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 2 1-1.5	H242107-07	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 2 2-2.5	H242107-08	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 2 3-3.5	H242107-09	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 2 4-4.5	H242107-10	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 3 0-6"	H242107-11	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 3 1-1.5	H242107-12	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 3 2-2.5	H242107-13	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 3 3-3.5	H242107-14	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 3 4-4.5	H242107-15	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 4 0-6"	H242107-16	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 4 1-1.5	H242107-17	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 4 2-2.5	H242107-18	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 4 3-3.5	H242107-19	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 4 4-4.5	H242107-20	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 5 0-6"	H242107-21	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 5 1-1.5	H242107-22	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 5 2-2.5	H242107-23	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 5 3-3.5	H242107-24	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 5 4-4.5	H242107-25	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 6 0-6"	H242107-26	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 6 1-1.5	H242107-27	Soil	18-Apr-24 00:00	19-Apr-24 11:02

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 6 2-2.5	H242107-28	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 6 3-3.5	H242107-29	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 6 4-4.5	H242107-30	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 7 4	H242107-31	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 8 4	H242107-32	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 9 4	H242107-33	Soil	18-Apr-24 00:00	19-Apr-24 11:02
P - 10 4	H242107-34	Soil	18-Apr-24 00:00	19-Apr-24 11:02
SW - 1 0-4	H242107-35	Soil	18-Apr-24 00:00	19-Apr-24 11:02
SW - 2 0-4	H242107-36	Soil	18-Apr-24 00:00	19-Apr-24 11:02
SW - 3 0-4	H242107-37	Soil	18-Apr-24 00:00	19-Apr-24 11:02
SW - 4 0-4	H242107-38	Soil	18-Apr-24 00:00	19-Apr-24 11:02
BG - 1 SURFACE	H242107-39	Soil	18-Apr-24 00:00	19-Apr-24 11:02
BG - 2 SURFACE	H242107-40	Soil	18-Apr-24 00:00	19-Apr-24 11:02
BG - 3 SURFACE	H242107-41	Soil	18-Apr-24 00:00	19-Apr-24 11:02

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 1 0-6"
H242107-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	996		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	QM-07
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	182		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.17		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	63.9		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	QM-07
Alkalinity, Total	816		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	152000		1000	mg/kg dry	1000	B241002	AWG	01-May-24	6010B	
Magnesium	51400		1000	mg/kg dry	1000	B241002	AWG	01-May-24	6010B	
Potassium	589		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 1 1-1.5
H242107-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	1210		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	167		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.53		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	68.9		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	992		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	123000		1000	mg/kg dry	1000	B241002	AWG	01-May-24	6010B	
Magnesium	11700		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	863		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	M5
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 1 2-2.5
H242107-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	644		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	158		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.39		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	49.9		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	528		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	119000		1000	mg/kg dry	1000	B241002	AWG	03-May-24	6010B	
Magnesium	8950		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	928		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 1 3-3.5
H242107-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	800		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	64.0		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	436		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.62		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	12700		2000	mg/kg	200	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	864		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	7360		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	1920		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1650		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	351		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 1 4-4.5
H242107-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	1020		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	128		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	414		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.57		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	12600		3330	mg/kg	333.32	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	1150		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	1910		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	2220		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	2490		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	624		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 2 0-6"
H242107-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	684		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	96.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	892		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	7.58		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	187		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	560		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	40300		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	2210		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	506		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 2 1-1.5
H242107-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	916		5.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<1.00		1.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	755		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	7.60		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	218		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	752		1.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	45300		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	2010		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	553		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 2 2-2.5
H242107-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	624		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	160		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	437		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	9.01		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	8770		2000	mg/kg	200	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	784		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	2130		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	1120		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1500		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	356		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 2 3-3.5
H242107-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	944		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	192		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042309	HM	23-Apr-24	4500-Cl-B	
Conductivity	524		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.84		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	7280		2000	mg/kg	200	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	1140		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	15200		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	2630		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1490		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	361		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 2 4-4.5
H242107-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	4340		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	80.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	681		1.00	umhos/cm @ 25°C	1	4042302	CT	24-Apr-24	120.1	
pH*	8.38		0.100	pH Units	1	4042302	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042302	CT	24-Apr-24	9045	
Sulfate	654		100	mg/kg	10	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	3560		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	76600		500	mg/kg dry	500	B241002	AWG	01-May-24	6010B	
Magnesium	4100		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1230		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	333		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 3 0-6"
H242107-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	880		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	169		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.44		0.100	pH Units	1	4042303	CT	25-Apr-24	9045	
Temperature °C	19.4			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	44.2		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	720		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	114000		1000	mg/kg dry	1000	B241002	AWG	01-May-24	6010B	
Magnesium	11700		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	828		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 3 1-1.5
H242107-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	1150		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	<16.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	169		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.55		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	63.6		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	944		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	111000		1000	mg/kg dry	1000	B241002	AWG	01-May-24	6010B	
Magnesium	11400		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	834		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 3 2-2.5
H242107-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	880		5.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<1.00		1.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	200		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.38		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	144		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	720		1.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	57400		500	mg/kg dry	500	B241002	AWG	01-May-24	6010B	
Magnesium	2400		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1180		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 3 3-3.5
H242107-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	800		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	160		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	396		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.64		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	8410		2000	mg/kg	200	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	960		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	10100		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	2610		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1840		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	401		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 3 4-4.5
H242107-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	1010		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	160		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	430		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.61		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	11900		2000	mg/kg	200	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	1170		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	23300		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	1720		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	818		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 4 0-6"
H242107-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	372		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	672		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	2580		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	7.30		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	268		40.0	mg/kg	4	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	304		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	44300		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	1910		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	508		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	328		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 4 1-1.5
H242107-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	820		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	372		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.63		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	1040		200	mg/kg	20	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	672		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	22100		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	5170		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	775		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 4 2-2.5
H242107-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	1060		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	96.0		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	80.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	533		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.73		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	1430		200	mg/kg	20	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	1150		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	20500		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Magnesium	6100		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1030		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	264		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 4 3-3.5
H242107-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	8590		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	513		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.96		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	3350		500	mg/kg	50	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	7040		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	71400		200	mg/kg dry	200	B241002	AWG	30-Apr-24	6010B	
Magnesium	5840		200	mg/kg dry	200	B241002	AWG	30-Apr-24	6010B	
Potassium	2980		400	mg/kg dry	200	B241002	AWG	30-Apr-24	6010B	
Sodium	874		400	mg/kg dry	200	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 4 4-4.5
H242107-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	5950		20.0	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	523		1.00	umhos/cm @ 25°C	1	4042303	CT	24-Apr-24	120.1	
pH*	8.91		0.100	pH Units	1	4042303	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042303	CT	24-Apr-24	9045	
Sulfate	4160		1000	mg/kg	100	4042503	CT	26-Apr-24	375.4	
Alkalinity, Total	4880		4.00	mg/kg	1	4042228	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	70100		500	mg/kg dry	500	B241002	AWG	01-May-24	6010B	
Magnesium	6230		100	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Potassium	1060		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	
Sodium	322		200	mg/kg dry	100	B241002	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 5 0-6"
H242107-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	312		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	QM-07
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	544		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	2450		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	7.22		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.2			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	247		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	QM-07
Alkalinity, Total	256		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	36900		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	SD2
Magnesium	3070		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	516		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	299		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	SD2

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 5 1-1.5
H242107-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	896		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	96.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	389		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.76		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.4			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	1560		333	mg/kg	33.32	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	736		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	12200		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	2500		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	825		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 5 2-2.5
H242107-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	1060		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	64.0		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	458		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.99		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.4			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	4970		1000	mg/kg	100	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	1120		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	25600		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	5890		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	988		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	243		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 5 3-3.5
H242107-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	2690		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	192		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	527		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	9.02		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.2			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	6480		1000	mg/kg	100	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	2880		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	20900		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	3680		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	1840		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	567		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
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Reported:
09-May-24 16:46

P - 5 4-4.5
H242107-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	10100		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	562		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.84		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	4280		1000	mg/kg	100	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	8240		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	62200		500	mg/kg dry	500	B241003	AWG	01-May-24	6010B	
Magnesium	5300		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	1140		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	346		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 6 0-6"
H242107-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	372		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	480		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	2300		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	7.41		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	246		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	304		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	39000		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	4450		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	552		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	295		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 6 1-1.5
H242107-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	640		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	32.0		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	112		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	474		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.52		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	1950		500	mg/kg	50	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	672		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	20500		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	5230		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	771		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 6 2-2.5
H242107-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	960		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	160		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	532		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.94		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	11600		2000	mg/kg	200	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	1120		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	18400		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	3360		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	1200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	313		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 6 3-3.5
H242107-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	4410		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042224	AC	22-Apr-24	4500-Cl-B	
Conductivity	536		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.97		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	4870		1000	mg/kg	100	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	3640		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	17100		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	5960		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	2170		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	725		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 6 4-4.5
H242107-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	8590		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	80.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	546		1.00	umhos/cm @ 25°C	1	4042304	CT	25-Apr-24	120.1	
pH*	8.86		0.100	pH Units	1	4042304	CT	24-Apr-24	9045	
Temperature °C	18.7			pH Units	1	4042304	CT	24-Apr-24	9045	
Sulfate	6460		1000	mg/kg	100	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	7040		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	70100		500	mg/kg dry	500	B241003	AWG	01-May-24	6010B	
Magnesium	6100		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	985		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	300		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 7 4**H242107-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	468		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	265		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.77		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	220		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	384		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	24400		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1170		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	694		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 8 4**H242107-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	568		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	359		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.83		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	201		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	464		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	24600		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1130		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	680		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 9 4**H242107-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	568		5.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<1.00		1.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	372		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.83		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	280		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	464		1.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	24500		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1080		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	707		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

P - 10 4
H242107-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	428		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	360		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.82		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	19.1			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	232		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	352		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	21800		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1140		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	673		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

SW - 1 0-4
H242107-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	508		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	369		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.80		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	19.0			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	228		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	416		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	21100		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1030		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	625		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

SW - 2 0-4
H242107-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	448		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	80.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	393		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.77		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	132		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	368		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	21900		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1170		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	644		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

SW - 3 0-4
H242107-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	448		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	64.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	384		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.81		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	18.7			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	102		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	400		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	26600		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1130		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	598		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

SW - 4 0-4
H242107-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	528		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	339		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.83		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	18.8			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	191		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	432		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	21400		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1170		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	668		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

BG - 1 SURFACE**H242107-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	488		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	392		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.76		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	18.5			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	182		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	400		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	22900		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1300		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	628		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

BG - 2 SURFACE**H242107-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	508		20.0	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	
Chloride	80.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	395		1.00	umhos/cm @ 25°C	1	4042305	CT	26-Apr-24	120.1	
pH*	7.76		0.100	pH Units	1	4042305	CT	24-Apr-24	9045	
Temperature °C	18.3			pH Units	1	4042305	CT	24-Apr-24	9045	
Sulfate	213		40.0	mg/kg	4	4042504	CT	26-Apr-24	375.4	
Alkalinity, Total	416		4.00	mg/kg	1	4042230	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	26100		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Magnesium	1110		100	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Potassium	590		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241003	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

BG - 3 SURFACE**H242107-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	548		20.0	mg/kg	1	4042232	CT	30-Apr-24	310.1M	QM-07
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	CT	30-Apr-24	310.1M	
Chloride	48.0		16.0	mg/kg	4	4042205	HM	23-Apr-24	4500-Cl-B	
Conductivity	371		1.00	umhos/cm @ 25°C	1	4042306	CT	26-Apr-24	120.1	
pH*	7.64		0.100	pH Units	1	4042306	CT	24-Apr-24	9045	
Temperature °C	18.9			pH Units	1	4042306	CT	24-Apr-24	9045	
Sulfate	163		40.0	mg/kg	4	4042505	CT	26-Apr-24	375.4	QM-07
Alkalinity, Total	448		4.00	mg/kg	1	4042232	CT	30-Apr-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	23400		100	mg/kg dry	100	B241004	AWG	30-Apr-24	6010B	
Magnesium	1090		100	mg/kg dry	100	B241004	AWG	30-Apr-24	6010B	
Potassium	638		200	mg/kg dry	100	B241004	AWG	30-Apr-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241004	AWG	30-Apr-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042205 - 1:4 DI Water**Blank (4042205-BLK1)**

Prepared & Analyzed: 22-Apr-24

Chloride	ND	16.0	mg/kg
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LCS (4042205-BS1)

Prepared & Analyzed: 22-Apr-24

Chloride	480	16.0	mg/kg	400	120	80-120
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LCS Dup (4042205-BSD1)

Prepared & Analyzed: 22-Apr-24

Chloride	480	16.0	mg/kg	400	120	80-120	0.00	20
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Batch 4042224 - 1:4 DI Water**Blank (4042224-BLK1)**

Prepared & Analyzed: 22-Apr-24

Chloride	ND	16.0	mg/kg
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LCS (4042224-BS1)

Prepared & Analyzed: 22-Apr-24

Chloride	448	16.0	mg/kg	400	112	80-120
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LCS Dup (4042224-BSD1)

Prepared & Analyzed: 22-Apr-24

Chloride	432	16.0	mg/kg	400	108	80-120	3.64	20
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Batch 4042228 - 1:4 DI Water**Blank (4042228-BLK1)**

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg
Alkalinity, Bicarbonate	5.00	5.00	mg/kg
Alkalinity, Total	4.00	1.00	mg/kg

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042228 - 1:4 DI Water**LCS (4042228-BS1)**

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120			
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120			

LCS Dup (4042228-BSD1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	137	5.00	mg/kg				80-120	11.6	20	
Alkalinity, Total	112	1.00	mg/kg	100		112	80-120	11.3	20	

Batch 4042230 - 1:4 DI Water**Blank (4042230-BLK1)**

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg							
Alkalinity, Bicarbonate	5.00	5.00	mg/kg							
Alkalinity, Total	4.00	1.00	mg/kg							

LCS (4042230-BS1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120			
Alkalinity, Bicarbonate	137	5.00	mg/kg				80-120			
Alkalinity, Total	112	1.00	mg/kg	100		112	80-120			

LCS Dup (4042230-BSD1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/kg				80-120	7.58	20	
Alkalinity, Total	104	1.00	mg/kg	100		104	80-120	7.41	20	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042232 - 1:4 DI Water**Blank (4042232-BLK1)**

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg							
Alkalinity, Bicarbonate	5.00	5.00	mg/kg							
Alkalinity, Total	4.00	1.00	mg/kg							

LCS (4042232-BS1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120			
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120			

LCS Dup (4042232-BSD1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/kg				80-120	4.02	20	
Alkalinity, Total	104	1.00	mg/kg	100		104	80-120	3.92	20	

Batch 4042302 - 1:1 DI**LCS (4042302-BS1)**

Prepared: 23-Apr-24 Analyzed: 26-Apr-24

pH	7.08		pH Units	7.00		101	90-110			
Conductivity	505		uS/cm	500		101	80-120			

Duplicate (4042302-DUP1)

Source: H242107-01

Prepared: 23-Apr-24 Analyzed: 26-Apr-24

pH	8.23	0.100	pH Units		8.17			0.732	20	
Conductivity	183	1.00	umhos/cm @ 25°C		182			0.274	20	
Temperature °C	18.7		pH Units		19.0			1.59	200	

Batch 4042303 - 1:1 DI**LCS (4042303-BS1)**

Prepared: 23-Apr-24 Analyzed: 26-Apr-24

pH	7.13		pH Units	7.00		102	90-110			
Conductivity	508		uS/cm	500		102	80-120			

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042303 - 1:1 DI

Duplicate (4042303-DUP1)		Source: H242107-11			Prepared: 23-Apr-24 Analyzed: 26-Apr-24					
pH	8.41	0.100	pH Units		8.44			0.356	20	
Conductivity	169	1.00	umhos/cm @ 25°C		169			0.236	20	
Temperature °C	18.8		pH Units		19.4			3.14	200	

Batch 4042304 - 1:1 DI

LCS (4042304-BS1)		Prepared: 23-Apr-24 Analyzed: 26-Apr-24								
pH	7.13		pH Units	7.00			102	90-110		
Conductivity	515		uS/cm	500			103	80-120		
Duplicate (4042304-DUP1)		Source: H242107-21			Prepared: 23-Apr-24 Analyzed: 26-Apr-24					
pH	7.23	0.100	pH Units		7.22			0.138	20	
Conductivity	2450	1.00	umhos/cm @ 25°C		2450			0.0817	20	
Temperature °C	19.4		pH Units		19.2			1.04	200	

Batch 4042305 - 1:1 DI

LCS (4042305-BS1)		Prepared: 23-Apr-24 Analyzed: 26-Apr-24								
pH	7.11		pH Units	7.00			102	90-110		
Conductivity	523		uS/cm	500			105	80-120		
Duplicate (4042305-DUP1)		Source: H242107-31			Prepared: 23-Apr-24 Analyzed: 26-Apr-24					
pH	7.83	0.100	pH Units		7.77			0.769	20	
Conductivity	267	1.00	umhos/cm @ 25°C		265			0.639	20	
Temperature °C	18.9		pH Units		19.1			1.05	200	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042306 - 1:1 DI**LCS (4042306-BS1)**

Prepared: 23-Apr-24 Analyzed: 26-Apr-24

Conductivity	515		uS/cm	500		103	80-120			
pH	7.12		pH Units	7.00		102	90-110			

Duplicate (4042306-DUP1)

Source: H242107-41

Prepared: 23-Apr-24 Analyzed: 26-Apr-24

pH	7.71	0.100	pH Units		7.64			0.912	20	
Conductivity	338	1.00	umhos/cm @ 25°C		371			9.31	20	
Temperature °C	18.9		pH Units		18.9			0.00	200	

Batch 4042309 - 1:4 DI Water**Blank (4042309-BLK1)**

Prepared & Analyzed: 23-Apr-24

Chloride	ND	16.0	mg/kg							
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LCS (4042309-BS1)

Prepared & Analyzed: 23-Apr-24

Chloride	480	16.0	mg/kg	400		120	80-120			
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LCS Dup (4042309-BSD1)

Prepared & Analyzed: 23-Apr-24

Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20	
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Batch 4042503 - 1:4 DI Water**Blank (4042503-BLK1)**

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	ND	10.0	mg/kg							
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LCS (4042503-BS1)

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	16.9	2.50	mg/kg	20.0		84.5	80-120			
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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042503 - 1:4 DI Water**LCS Dup (4042503-BSD1)**

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	16.5	2.50	mg/kg	20.0		82.6	80-120	2.21	20	
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Batch 4042504 - 1:4 DI Water**Blank (4042504-BLK1)**

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	ND	10.0	mg/kg							
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LCS (4042504-BS1)

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	16.9	2.50	mg/kg	20.0		84.5	80-120			
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LCS Dup (4042504-BSD1)

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	16.5	2.50	mg/kg	20.0		82.6	80-120	2.21	20	
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Batch 4042505 - 1:4 DI Water**Blank (4042505-BLK1)**

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	ND	10.0	mg/kg							
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LCS (4042505-BS1)

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	16.9	2.50	mg/kg	20.0		84.5	80-120			
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LCS Dup (4042505-BSD1)

Prepared: 25-Apr-24 Analyzed: 26-Apr-24

Sulfate	16.5	2.50	mg/kg	20.0		82.6	80-120	2.21	20	
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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Total Metals by ICP - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241002 - EPA 3050**Blank (B241002-BLK1)**

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Calcium	ND	100	mg/kg dry							
Magnesium	ND	100	mg/kg dry							
Sodium	ND	200	mg/kg dry							
Potassium	ND	200	mg/kg dry							

LCS (B241002-BS1)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Potassium	356	200	mg/kg dry	378		94.2	80-120			
Sodium	1520	200	mg/kg dry	1630		93.3	80-120			

LCS (B241002-BS2)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Calcium	221	100	mg/kg dry	238		92.8	80-120			
Magnesium	310	100	mg/kg dry	332		93.5	80-120			

LCS Dup (B241002-BSD1)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Sodium	1510	200	mg/kg dry	1630		92.7	80-120	0.598	20	
Potassium	360	200	mg/kg dry	378		95.3	80-120	1.19	20	

LCS Dup (B241002-BSD2)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Magnesium	312	100	mg/kg dry	332		94.1	80-120	0.640	20	
Calcium	221	100	mg/kg dry	238		93.1	80-120	0.327	20	

Batch B241003 - EPA 3050**Blank (B241003-BLK1)**

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Magnesium	ND	100	mg/kg dry							
Potassium	ND	200	mg/kg dry							
Calcium	ND	100	mg/kg dry							
Sodium	ND	200	mg/kg dry							

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
09-May-24 16:46

Total Metals by ICP - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241003 - EPA 3050**LCS (B241003-BS1)**

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Potassium	358	200	mg/kg dry	378		94.8	80-120			
Sodium	1520	200	mg/kg dry	1630		93.3	80-120			

LCS (B241003-BS2)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Calcium	228	100	mg/kg dry	238		95.8	80-120			
Magnesium	314	100	mg/kg dry	332		94.7	80-120			

LCS Dup (B241003-BSD1)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Sodium	1520	200	mg/kg dry	1630		93.5	80-120	0.213	20	
Potassium	359	200	mg/kg dry	378		94.9	80-120	0.0889	20	

LCS Dup (B241003-BSD2)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Calcium	224	100	mg/kg dry	238		93.9	80-120	1.96	20	
Magnesium	319	100	mg/kg dry	332		96.0	80-120	1.40	20	

Batch B241004 - EPA 3050**Blank (B241004-BLK1)**

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Magnesium	ND	100	mg/kg dry							
Calcium	ND	100	mg/kg dry							
Potassium	ND	200	mg/kg dry							
Sodium	ND	200	mg/kg dry							

LCS (B241004-BS1)

Prepared: 26-Apr-24 Analyzed: 03-May-24

Calcium	ND	100	mg/kg dry				80-120			
---------	----	-----	-----------	--	--	--	--------	--	--	--

LCS (B241004-BS2)

Prepared: 26-Apr-24 Analyzed: 30-Apr-24

Sodium	1540	200	mg/kg dry	1630		94.9	80-120			
Potassium	357	200	mg/kg dry	378		94.5	80-120			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: TRIONYX CONTAINMENT AND REC Project Number: 248254 Project Manager: ETHAN SESSUMS Fax To:	Reported: 09-May-24 16:46
--	---	------------------------------

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B241004 - EPA 3050

LCS (B241004-BS3)		Prepared: 26-Apr-24 Analyzed: 30-Apr-24								
Magnesium	318	100	mg/kg dry	332		95.9	80-120			
Calcium	231	100	mg/kg dry	238		97.0	80-120			
LCS Dup (B241004-BSD2)		Prepared: 26-Apr-24 Analyzed: 30-Apr-24								
Sodium	1520	200	mg/kg dry	1630		93.5	80-120	1.56	20	
Potassium	359	200	mg/kg dry	378		95.1	80-120	0.607	20	
LCS Dup (B241004-BSD3)		Prepared: 26-Apr-24 Analyzed: 30-Apr-24								
Calcium	232	100	mg/kg dry	238		97.4	80-120	0.380	20	
Magnesium	316	100	mg/kg dry	332		95.1	80-120	0.847	20	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- SD2 Serial Dilution RPD exceeded the laboratory control limit. All other QC for analyte acceptable.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 11242107

Page 1 of 5

Project Manager:	Ethan Sessums	Bill ID: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntgglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Trionyx Containment and Recycling Facility		Turn Around		ANALYSIS REQUEST										Preservative Codes	
Project Number:	248254	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Due Date:		Pres. Code										None: NO	DI Water: H ₂ O
Project Location:	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me
Sampler's Name:	Kenny Han															HCL: HC	HNO ₃ : HN
PO #	21247637															H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										HOLD	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:		Correction Factor:		pH										NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:		Corrected Temperature:		cation/anions										Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A					Sodium (Na)										Zn Acetate+NaOH: Zn	
Total Containers:	205															NaOH+Ascorbic Acid: SAPC	
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont										Sample Comments
P-1	0-6"	4/18/2024		X		Grab	5	X	X	X							1
P-1	1-1.5	4/18/2024		X		Grab	5	X	X	X							2
P-1	2-2.5	4/18/2024		X		Grab	5	X	X	X							3
P-1	3-3.5	4/18/2024		X		Grab	5	X	X	X							4
P-1	4-4.5	4/18/2024		X		Grab	5	X	X	X							5
P-2	0-6"	4/18/2024		X		Grab	5	X	X	X							6
P-2	1-1.5	4/18/2024		X		Grab	5	X	X	X							7
P-2	2-2.5	4/18/2024		X		Grab	5	X	X	X							8
P-2	3-3.5	4/18/2024		X		Grab	5	X	X	X							9
P-2	4-4.5	4/18/2024		X		Grab	5	X	X	X							10

Additional Comments: cannot run TDS in soil. See signature 4-19-24

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>ES</i>	<i>Shodieney</i>	4-19-24 11:02	2		
3			4		
5			6		



Chain of Custody

Work Order No: HA42107

Page 2 of 5

Project Manager:	Ethan Sessums	Bill to: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntgglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> UST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> Adapt <input type="checkbox"/> Other:	

Project Name:	Trionyx Containment and Recycling Facility		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:	248254		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code													None: NO	DI Water: H ₂ O					
Project Location:	Lea Co. NM		Due Date:		TAT starts the day received by the lab, if received by 4:30pm												Cool: Cool	MeOH: Me						
Sampler's Name:	Kenny Han																HCL: HC	HNO ₃ : HN						
PO #	21247637																H ₂ SO ₄ : H ₂	NaOH: Na						
SAMPLE RECEIPT	Temp Blank:	Yes (No) <input checked="" type="checkbox"/>	Wet Ice:	Yes (No) <input checked="" type="checkbox"/>													H ₃ PO ₄ : HP							
Received Intact:	Yes (No) <input checked="" type="checkbox"/>	Thermometer ID:													NaHSO ₄ : NABIS									
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:													Na ₂ S ₂ O ₅ : NaSO ₃									
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:													Zn Acetate+NaOH: Zn									
Total Containers:	205		Corrected Temperature:													NaOH+Ascorbic Acid: SAPC								
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	pH												Sodium (Na)		HOLD		Sample Comments
P-3	0-6"	4/18/2024		X		Grab	5	X	X	X										11				
P-3	1-1.5	4/18/2024		X		Grab	5	X	X	X										12				
P-3	2-2.5	4/18/2024		X		Grab	5	X	X	X										13				
P-3	3-3.5	4/18/2024		X		Grab	5	X	X	X										14				
P-3	4-4.5	4/18/2024		X		Grab	5	X	X	X										15				
P-4	0-6"	4/18/2024		X		Grab	5	X	X	X										16				
P-4	1-1.5	4/18/2024		X		Grab	5	X	X	X										17				
P-4	2-2.5	4/18/2024		X		Grab	5	X	X	X										18				
P-4	3-3.5	4/18/2024		X		Grab	5	X	X	X										19				
P-4	4-4.5	4/18/2024		X		Grab	5	X	X	X										20				

Additional Comments: cannot run TDS in soil. Spent 4-19-24

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	4-19-24 11:03			



Chain of Custody

Work Order No: 1848107

Page 3 of 5

Project Manager:	Ethan Sessums	Bill To: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	essesums@ntglobal.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Deepfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other

Project Name:	Tionyx Containment and Recycling Facility		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:	248254		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code													None: NO	DI Water: H ₂ O					
Project Location:	Lea Co. NM		Due Date:														Cool: Cool	MeOH: Me						
Sampler's Name:	Kenny Han		TAT starts the day received by the lab. If received by 4:30pm														HCL: HC	HNO ₃ : HN						
PO #	21247637																H ₂ SO ₄ : H ₂	NaOH: Na						
SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No													H ₃ PO ₄ : HP		
Received Inact:	Yes		No	Thermometer ID:	140														NaHSO ₄ : NABIS					
Cooler Custody Seals:	Yes		No	Correction Factor:	1.42														Na ₂ S ₂ O ₅ : NaSO ₃					
Sample Custody Seals:	Yes		No	Temperature Reading:															Zn Acetate+NaOH: Zn					
Total Containers:	205		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC					
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	pH	cation/anions	Sodium (Na)													Sample Comments	
P-5	0-6"	4/18/2024		X		Grab	5	X	X	X													21	
P-5	1-1.5	4/18/2024		X		Grab	5	X	X	X													22	
P-5	2-2.5	4/18/2024		X		Grab	5	X	X	X													23	
P-5	3-3.5	4/18/2024		X		Grab	5	X	X	X													24	
P-5	4-4.5	4/18/2024		X		Grab	5	X	X	X													25	
P-6	0-6"	4/18/2024		X		Grab	5	X	X	X													26	
P-6	1-1.5	4/18/2024		X		Grab	5	X	X	X													27	
P-6	2-2.5	4/18/2024		X		Grab	5	X	X	X													28	
P-6	3-3.5	4/18/2024		X		Grab	5	X	X	X													29	
P-6	4-4.5	4/18/2024		X		Grab	5	X	X	X													30	

Additional Comments: cannot run TDS in soil. Specimens 4/18/24

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		4/19/24 1102			



Chain of Custody

Work Order No: 4242107



Page 4 of 5

Project Manager:	Ethan Sessums	Bill to: (if different)	Dale Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/ST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDO <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Trionyx Containment and Recycling Facility		Turn Around		ANALYSIS REQUEST										Preservative Codes			
Project Number:		248254	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date:		Pres. Code												None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: S APC	DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na
Project Location		Lea Co. NM		TAT starts the day received by the lab, if received by 4:30pm															
Sampler's Name:		Kenny Han																	
PO #		21247637																	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	(Yes) No														
Received Intact:		Yes No	Thermometer ID:																
Cooler Custody Seals:		Yes No N/A	Correction Factor:																
Sample Custody Seals:		Yes No N/A	Temperature Reading:																
Total Containers:		205	Corrected Temperature:																
Parameters																			
pH																			
cation/anions																			
Sodium (Na)																			
HOLD																			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont											Sample Comments	
P-7	4	4/18/2024		X		Comp	5	X	X	X								31	
P-8	4	4/18/2024		X		Comp	5	X	X	X								32	
P-9	4	4/18/2024		X		Comp	5	X	X	X								33	
P-10	4	4/18/2024		X		Comp	5	X	X	X								34	
SW-1	0-4	4/18/2024		X		Comp	5	X	X	X								35	
SW-2	0-4	4/18/2024		X		Comp	5	X	X	X								36	
SW-3	0-4	4/18/2024		X		Comp	5	X	X	X								37	
SW-4	0-4	4/18/2024		X		Comp	5	X	X	X								38	
BG-1	SURFACE	4/18/2024		X		Grab/	5	X	X	X								39	
BG-2	SURFACE	4/18/2024		X		Grab/	5	X	X	X								40	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-19-24 1102			



Chain of Custody

Work Order No: 14242107

Page 5 of 5

Project Manager	Ethan Sessums	Bill to: (if different)	Dale Woodall
Company Name	NTG Environmental	Company Name	Devon
Address	209 W McKay St	Address	
City, State ZIP	Carlsbad, NM 88220	City, State ZIP	
Phone	432-701-2159	Email	esessums@ntglobal.com

Work Order Comments				
Program: USTR/ST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> IRC	<input type="checkbox"/> Iperfund
State of Project:				
Reporting Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/>	Adapt	<input type="checkbox"/>	Other:

[illegible]

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

June 13, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: TRIONYX CONTAINMENT AND RECYLING FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 05/30/24 12:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG - 1 SURFACE	H243026-01	Soil	30-May-24 10:00	30-May-24 12:57
BG - 2 SURFACE	H243026-02	Soil	30-May-24 10:10	30-May-24 12:57
BG - 3 SURFACE	H243026-03	Soil	30-May-24 10:20	30-May-24 12:57

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

BG - 1 SURFACE
H243026-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	332		20.0	mg/kg	1	4042232	AC	04-Jun-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	AC	04-Jun-24	310.1M	
Chloride	<16.0		16.0	mg/kg	4	4060340	AC	03-Jun-24	4500-Cl-B	
Conductivity	161		1.00	umhos/cm @ 25°C	1	4053148	AC	31-May-24	120.1	
pH*	7.93		0.100	pH Units	1	4053148	AC	31-May-24	9045	
Temperature °C	23.1			pH Units	1	4053148	AC	31-May-24	9045	
Sulfate	417		200	mg/kg	20	4060314	AC	04-Jun-24	375.4	
Alkalinity, Total	272		4.00	mg/kg	1	4042232	AC	04-Jun-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	6770		100	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Magnesium	556		100	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Potassium	688		200	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	M5

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

BG - 2 SURFACE**H243026-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	390		20.0	mg/kg	1	4042232	AC	04-Jun-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	AC	04-Jun-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4060340	AC	03-Jun-24	4500-Cl-B	
Conductivity	163		1.00	umhos/cm @ 25°C	1	4053148	AC	31-May-24	120.1	
pH*	8.07		0.100	pH Units	1	4053148	AC	31-May-24	9045	
Temperature °C	22.7			pH Units	1	4053148	AC	31-May-24	9045	
Sulfate	395		100	mg/kg	10	4060314	AC	04-Jun-24	375.4	
Alkalinity, Total	320		4.00	mg/kg	1	4042232	AC	04-Jun-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	8620		100	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Magnesium	613		100	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Potassium	524		200	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	M5

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

BG - 3 SURFACE**H243026-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	390		20.0	mg/kg	1	4042232	AC	04-Jun-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	AC	04-Jun-24	310.1M	
Chloride	32.0		16.0	mg/kg	4	4060340	AC	03-Jun-24	4500-Cl-B	
Conductivity	170		1.00	umhos/cm @ 25°C	1	4053148	AC	31-May-24	120.1	
pH*	8.10		0.100	pH Units	1	4053148	AC	31-May-24	9045	
Temperature °C	22.7			pH Units	1	4053148	AC	31-May-24	9045	
Sulfate	329		100	mg/kg	10	4060314	AC	04-Jun-24	375.4	
Alkalinity, Total	320		4.00	mg/kg	1	4042232	AC	04-Jun-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	16500		100	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Magnesium	642		100	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Potassium	541		200	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241507	AWG	11-Jun-24	6010B	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042232 - 1:4 DI Water**Blank (4042232-BLK1)**

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg						
Alkalinity, Bicarbonate	5.00	5.00	mg/kg						
Alkalinity, Total	4.00	1.00	mg/kg						

LCS (4042232-BS1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg			80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg			80-120			
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120		

LCS Dup (4042232-BSD1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg			80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/kg			80-120	4.02	20	
Alkalinity, Total	104	1.00	mg/kg	100		104	80-120	3.92	20

Batch 4053148 - General Prep - Wet Chem**LCS (4053148-BS1)**

Prepared & Analyzed: 31-May-24

Conductivity	480		uS/cm	500		96.0	80-120		
pH	7.03		pH Units	7.00		100	90-110		

Duplicate (4053148-DUP1)

Source: H243026-01

Prepared & Analyzed: 31-May-24

pH	8.05	0.100	pH Units		7.93		1.50	20	
Conductivity	151	1.00	umhos/cm @ 25°C		161		6.61	20	
Temperature °C	22.9		pH Units		23.1		0.870	200	

Batch 4060314 - 1:4 DI Water**Blank (4060314-BLK1)**

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Sulfate	ND	10.0	mg/kg						
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4060314 - 1:4 DI Water**LCS (4060314-BS1)**

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Sulfate	17.2	2.50	mg/kg	20.0		86.2	80-120			
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LCS Dup (4060314-BSD1)

Prepared: 03-Jun-24 Analyzed: 04-Jun-24

Sulfate	16.1	2.50	mg/kg	20.0		80.4	80-120	7.08	20	
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Batch 4060340 - 1:4 DI Water**Blank (4060340-BLK1)**

Prepared & Analyzed: 03-Jun-24

Chloride	ND	16.0	mg/kg							
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LCS (4060340-BS1)

Prepared & Analyzed: 03-Jun-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (4060340-BSD1)

Prepared & Analyzed: 03-Jun-24

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
13-Jun-24 08:57

Total Metals by ICP - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B241507 - EPA 3050**Blank (B241507-BLK1)**

Prepared: 05-Jun-24 Analyzed: 11-Jun-24

Magnesium	ND	100	mg/kg dry							
Sodium	ND	200	mg/kg dry							
Potassium	ND	200	mg/kg dry							
Calcium	ND	100	mg/kg dry							

LCS (B241507-BS1)

Prepared: 05-Jun-24 Analyzed: 11-Jun-24

Sodium	305	200	mg/kg dry	324		94.2	80-120			
Potassium	764	200	mg/kg dry	800		95.5	80-120			
Magnesium	1950	100	mg/kg dry	2000		97.5	80-120			
Calcium	389	100	mg/kg dry	400		97.2	80-120			

LCS Dup (B241507-BSD1)

Prepared: 05-Jun-24 Analyzed: 11-Jun-24

Sodium	302	200	mg/kg dry	324		93.3	80-120	0.940	20	
Potassium	763	200	mg/kg dry	800		95.4	80-120	0.160	20	
Calcium	385	100	mg/kg dry	400		96.4	80-120	0.895	20	
Magnesium	1930	100	mg/kg dry	2000		96.4	80-120	1.06	20	

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Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

July 11, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: TRIONYX CONTAINMENT AND RECYCLING FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
11-Jul-24 10:49

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG - 1	H243784-01	Soil	25-Jun-24 00:00	25-Jun-24 13:15
BG - 2	H243784-02	Soil	25-Jun-24 00:00	25-Jun-24 13:15
BG - 3	H243784-03	Soil	25-Jun-24 00:00	25-Jun-24 13:15

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A handwritten signature in black ink, appearing to read "C. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
11-Jul-24 10:49

BG - 1**H243784-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	429		20.0	mg/kg	1	4042232	HM	28-Jun-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	HM	28-Jun-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4062855	AC	28-Jun-24	4500-Cl-B	
Conductivity	206		1.00	umhos/cm @ 25°C	1	4062849	AC	28-Jun-24	120.1	
pH*	7.92		0.100	pH Units	1	4062849	AC	28-Jun-24	9045	
Temperature °C	21.6			pH Units	1	4062849	AC	28-Jun-24	9045	
Sulfate	413		200	mg/kg	20	4062860	HM	28-Jun-24	375.4	
Alkalinity, Total	352		4.00	mg/kg	1	4042232	HM	28-Jun-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	26300		100	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Magnesium	863		100	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Potassium	487		200	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	

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Analytical Results For:NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:Reported:
11-Jul-24 10:49**BG - 2****H243784-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	468		20.0	mg/kg	1	4042232	HM	28-Jun-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	HM	28-Jun-24	310.1M	
Chloride	16.0		16.0	mg/kg	4	4062855	AC	28-Jun-24	4500-Cl-B	
Conductivity	192		1.00	umhos/cm @ 25°C	1	4062849	AC	28-Jun-24	120.1	
pH*	8.06		0.100	pH Units	1	4062849	AC	28-Jun-24	9045	
Temperature °C	21.6			pH Units	1	4062849	AC	28-Jun-24	9045	
Sulfate	431		200	mg/kg	20	4062860	HM	28-Jun-24	375.4	
Alkalinity, Total	384		4.00	mg/kg	1	4042232	HM	28-Jun-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	24600		100	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Magnesium	712		100	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Potassium	432		200	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
11-Jul-24 10:49

BG - 3**H243784-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	566		20.0	mg/kg	1	4042232	HM	28-Jun-24	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	1	4042232	HM	28-Jun-24	310.1M	
Chloride	<16.0		16.0	mg/kg	4	4062855	AC	28-Jun-24	4500-Cl-B	
Conductivity	133		1.00	umhos/cm @ 25°C	1	4062849	AC	28-Jun-24	120.1	
pH*	8.28		0.100	pH Units	1	4062849	AC	28-Jun-24	9045	
Temperature °C	21.6			pH Units	1	4062849	AC	28-Jun-24	9045	
Sulfate	434		200	mg/kg	20	4062860	HM	28-Jun-24	375.4	
Alkalinity, Total	464		4.00	mg/kg	1	4042232	HM	28-Jun-24	310.1M	

Green Analytical Laboratories**Total Metals by ICP**

Calcium	39000		100	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Magnesium	1180		100	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Potassium	473		200	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	
Sodium	<200		200	mg/kg dry	100	B241873	AWG	08-Jul-24	6010B	

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Project: TRIONYX CONTAINMENT AND REC
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11-Jul-24 10:49

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042232 - 1:4 DI Water**Blank (4042232-BLK1)**

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg						
Alkalinity, Bicarbonate	5.00	5.00	mg/kg						
Alkalinity, Total	4.00	1.00	mg/kg						

LCS (4042232-BS1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg			80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg			80-120			
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120		

LCS Dup (4042232-BSD1)

Prepared: 22-Apr-24 Analyzed: 30-Apr-24

Alkalinity, Carbonate	ND	1.00	mg/kg			80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/kg			80-120	4.02	20	
Alkalinity, Total	104	1.00	mg/kg	100		104	80-120	3.92	20

Batch 4062849 - General Prep - Wet Chem**LCS (4062849-BS1)**

Prepared & Analyzed: 28-Jun-24

Conductivity	501		uS/cm	500		100	80-120		
pH	7.08		pH Units	7.00		101	90-110		

Duplicate (4062849-DUP1)

Source: H243784-01

Prepared & Analyzed: 28-Jun-24

pH	8.07	0.100	pH Units		7.92		1.88	20	
Conductivity	189	1.00	umhos/cm @ 25°C		206		8.65	20	
Temperature °C	21.5		pH Units		21.6		0.464	200	

Batch 4062855 - 1:4 DI Water**Blank (4062855-BLK1)**

Prepared & Analyzed: 28-Jun-24

Chloride	ND	16.0	mg/kg						
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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
11-Jul-24 10:49

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4062855 - 1:4 DI Water**LCS (4062855-BS1)**

Prepared & Analyzed: 28-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (4062855-BSD1)

Prepared & Analyzed: 28-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Batch 4062860 - 1:4 DI Water**Blank (4062860-BLK1)**

Prepared & Analyzed: 28-Jun-24

Sulfate	ND	10.0	mg/kg
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LCS (4062860-BS1)

Prepared & Analyzed: 28-Jun-24

Sulfate	17.5	2.50	mg/kg	20.0	87.6	80-120
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LCS Dup (4062860-BSD1)

Prepared & Analyzed: 28-Jun-24

Sulfate	19.6	2.50	mg/kg	20.0	97.8	80-120	11.0	20
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Analytical Results For:

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701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: TRIONYX CONTAINMENT AND REC
Project Number: 248254
Project Manager: ETHAN SESSUMS
Fax To:

Reported:
11-Jul-24 10:49

Total Metals by ICP - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B241873 - EPA 3050**Blank (B241873-BLK1)**

Prepared: 01-Jul-24 Analyzed: 08-Jul-24

Magnesium	ND	100	mg/kg dry							
Sodium	ND	200	mg/kg dry							
Potassium	ND	200	mg/kg dry							
Calcium	ND	100	mg/kg dry							

LCS (B241873-BS1)

Prepared: 01-Jul-24 Analyzed: 08-Jul-24

Sodium	318	200	mg/kg dry	324		98.0	80-120			
Potassium	798	200	mg/kg dry	800		99.7	80-120			
Magnesium	2000	100	mg/kg dry	2000		100	80-120			
Calcium	410	100	mg/kg dry	400		102	80-120			

LCS Dup (B241873-BSD1)

Prepared: 01-Jul-24 Analyzed: 08-Jul-24

Sodium	318	200	mg/kg dry	324		98.1	80-120	0.104	20	
Potassium	801	200	mg/kg dry	800		100	80-120	0.437	20	
Calcium	405	100	mg/kg dry	400		101	80-120	1.13	20	
Magnesium	1980	100	mg/kg dry	2000		99.0	80-120	0.961	20	

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

QUESTIONS

Action 364186

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364186
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1534338732
Incident Name	NAB1534338732 TRIONYX CONTAINMENT AND RECYLING FACILITY @ 0
Incident Type	Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAB1526137120] Trionyx Containment and Recyling Facility

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TRIONYX CONTAINMENT AND RECYLING FACILITY
Date Release Discovered	11/14/2015
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Fitting Other (Specify) Released: 50 BBL Recovered: 48 BBL Lost: 2 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 364186

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364186
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 07/15/2024
--	--

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QUESTIONS, Page 3

Action 364186

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/27/2024
On what date will (or did) the final sampling or liner inspection occur	06/25/2024
On what date will (or was) the remediation complete(d)	06/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 364186

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364186
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 07/15/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

QUESTIONS, Page 5

Action 364186

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS, Page 6

Action 364186

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364186
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356358
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/25/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	2000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	see reports

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 (in .pdf format) 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.

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/15/2024
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QUESTIONS, Page 7

Action 364186

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364186
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 364186

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	364186
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	7/26/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/26/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/26/2024
amaxwell	Reclamation required for sample area P-4.	7/26/2024