Volume calculator

There was no volume calculator prepared when the spill occurred.



209 W. McKay Street Carlsbad, New Mexico 88220 Tel. 432-701-2159 www.ntgenvironmental.com

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. <u>Background</u>

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.

Creating a Better Environment For Oil & Gas Operations Ms. Ashley Maxwell July 12, 2024 Page 2 of 4

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 ¹/₂-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	TPH	BTEX	Benzene
		(GRO+DRO+MRO	(GRO+MRO)		
19.15.29.13 Restoration,					
Reclamation and Re-	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
Vegetation (Impacted Area	0.0			0.0	
0-4 Feet)					
19.15.23.12 Remediation					
and Closure Criteria for	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Soils Impacted by a Release				0.0	
(>4 Feet)					
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

NTGE Project No.: 248254



Ms. Ashley Maxwell July 12, 2024 Page 3 of 4

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

NTGE Project No.: 248254



Ms. Ashley Maxwell July 12, 2024 Page 4 of 4

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. <u>Closure Request Report</u>

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



TABLES

Table 1Summary of Soil Analytical Data - Delineation SamplesTrionyx Containment and Recyling FacilityDevon Energy Production CompanyEddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	рН	Temperature °C						
Delineation Samples										
	2/27/2024	0-0.5'	8.31	20.1						
S-1	2/27/2024	1-1.5'	8.40	20.4						
51	2/27/2024	2-2.5'	8.90	20.4						
	2/27/2024	3-3.5'	8.67	20.3						
	2/27/2024	0-0.5'	8.71	20.2						
S-2	2/27/2024	1-1.5'	8.97	20.3						
52	2/27/2024	2-2.5'	9.14	20.1						
	2/27/2024	3-3.5'	8.98	20.3						
	2/27/2024	0-0.5'	8.98	20.1						
S-3	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						
	2/27/2024	0-0.5'	9.15	19.7						
S-4	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						
	2/27/2024	0-0.5'	9.17	19.8						
S-5	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						
	2/27/2024	0-0.5'	8.94	21.4						
S-6	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						
	2/27/2024	0-0.5'	8.99	21.0						
S-7	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						
	2/27/2024	0-0.5'	9.15	21.6						
S-8	2/27/2024	1-1.5'	9.13	21.2						
	2/27/2024	2-2.5' 3-3.5'	8.74 9.07	21.0						
	2/27/2024			20.9						
	2/27/2024	0-0.5'	8.95	21.1						
S-9	2/27/2024	1-1.5'	8.83 8.05	21.0						
	2/27/2024 2/27/2024	2-2.5'	8.95	21.3						
		3-3.5'	8.92	21.1						
	2/27/2024	0-0.5'	9.04	21.5						
S-10	2/27/2024 2/27/2024	1-1.5' 2-2.5'	8.79 8.82	21.6 21.1						
	2/27/2024	3-3.5'								
		s-3.5 kground Sa	9.00	20.9						
BG-1	2/27/2024	0-0.5'	8.31	20.9						
BG-1 BG-2	2/27/2024	0-0.5	8.14	20.9						
50-2	2/2//2024	0.0.5	0.14	20.3						

Notes:

1. Bold indicates Analyte Detected

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Table 2 Summary of Soil Analytical Data - Delineation Samples Trionyx Containment and Recyling 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)	рН	Temperature (°C)	Sulfate (mg/Kg)	Alkalinity, Total (mg/Kg)	Calcium (mg/Kg)	Magnesium (mg/Kg)	Potassium (mg/Kg)	Sodium (mg/Kg)
NMED	Cleanup Standa	rds			20,000									
Delioneation Samples														
	04/18/24	0-0.5'	996	<4.00	32	182	8.17	19.0	63.9	816	152,000	51,400	589	<200
P-1	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
	04/18/24	0-0.5'	684	<4.00	96	892	7.58	18.8	187	560	40,300	2,210	506	<200
P-2	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
	04/18/24	0-0.5'	880	<4.00	16	169	8.44	19.4	44.2	720	114,000	11,700	828	<200
P-3	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
15	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
	04/18/24	0-0.5'	372	<4.00	672	2,580	7.30	19.0	268	304	44,300	1,910	508	328
P-4	04/18/24	1-1.5'	820	<4.00	32	372	8.63	18.9	1,040	672	22,100	5,170	775	<200
F -4	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
	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
P-5	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
	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
P-6	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 Sample	5						
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

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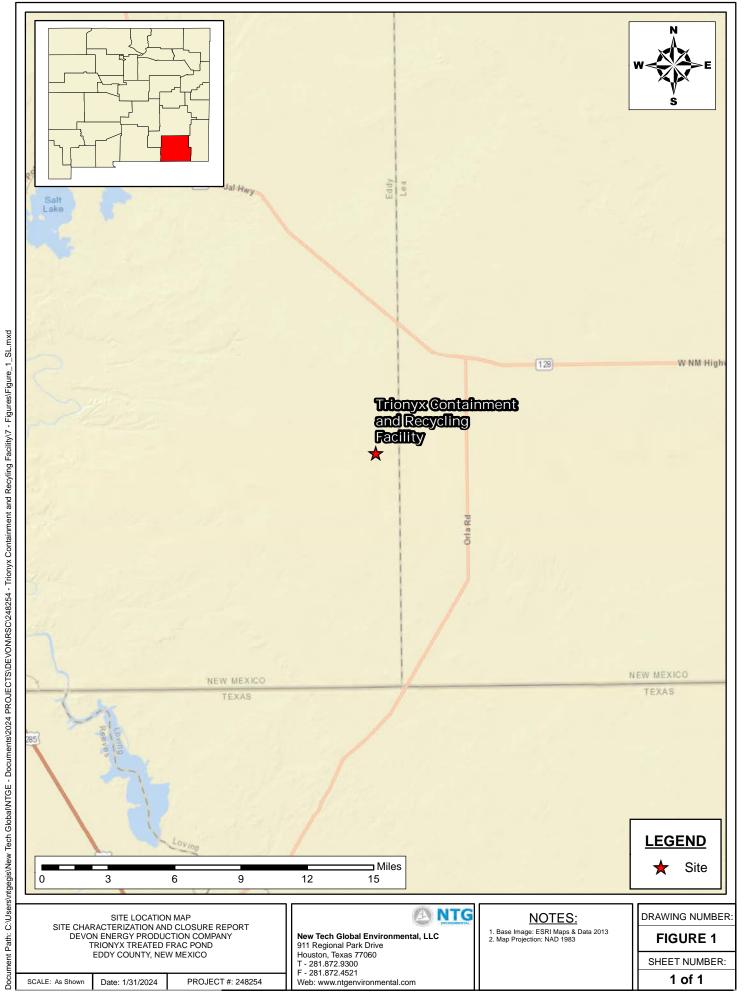
Table 2 Summary of Soil Analytical Data - Delineation Samples Trionyx Containment and Recyling Facility Devon Energy Production Company Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Alkalinity, Bicarbonate (mg/Kg)	Alkalinity Carbonate (mg/Kg)	Chloride (mg/Kg)	Conductivity (umhos/cm)	рН	Temperature (°C)	Sulfate (mg/Kg)	Alkalinity, Total (mg/Kg)	Calcium (mg/Kg)	Magnesium (mg/Kg)	Potassium (mg/Kg)	Sodium (mg/Kg)
NMED	Cleanup Standa	rds			20,000									
	Background Samples													
BG 1	04/18/24	Surface	4 88	<4.00	48	392	7.76	18.5	182	400	22,900	1,300	628	<200
BG-2	04/18/24	Surface	508	<4.00	80	395	7.76	18.3	213	4 16	26,100	1,110	590	<200
BG-3	04/18/24	Surface	548	<4.00	48	371	7.6 4	18.9	163	44 8	23,400	1,090	638	<200
BG-1	05/30/2 4	Surface	332	<4.00	<16.0	161	7.93	23.1	417	272	6,770	556	688	<200
BG-2	05/30/2 4	Surface	390	<4.00	16.0	163	8.07	22.7	395	320	8,620	613	52 4	<200
BG-3	05/30/2 4	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

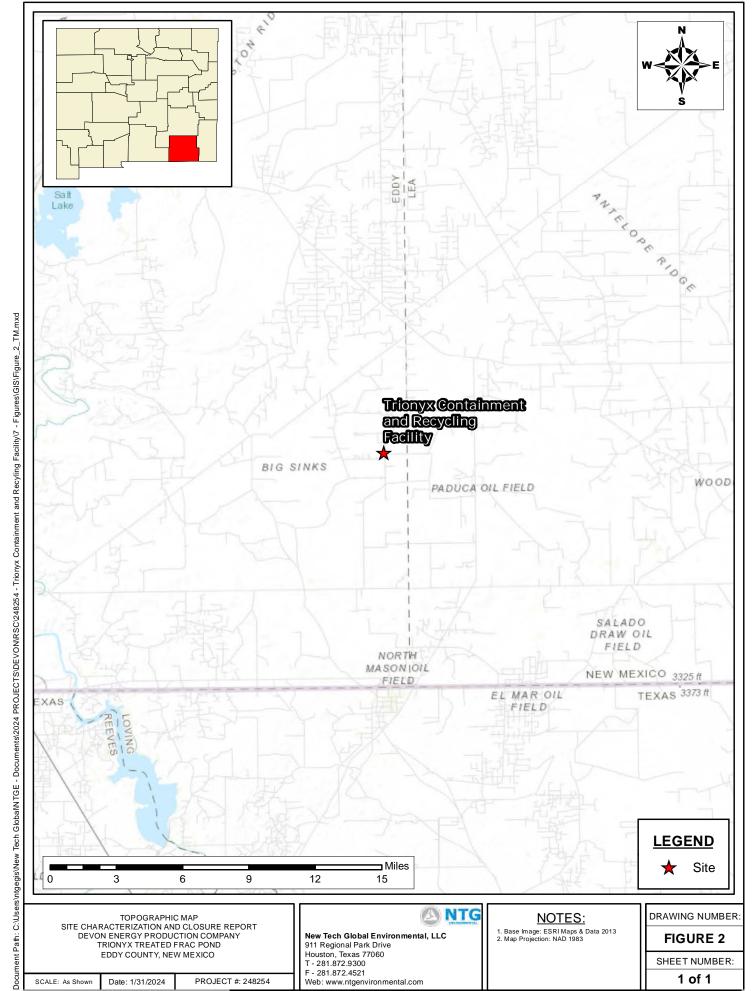
Notes: 1. Bold indicates Analyte Detected

Above NMOCD standards

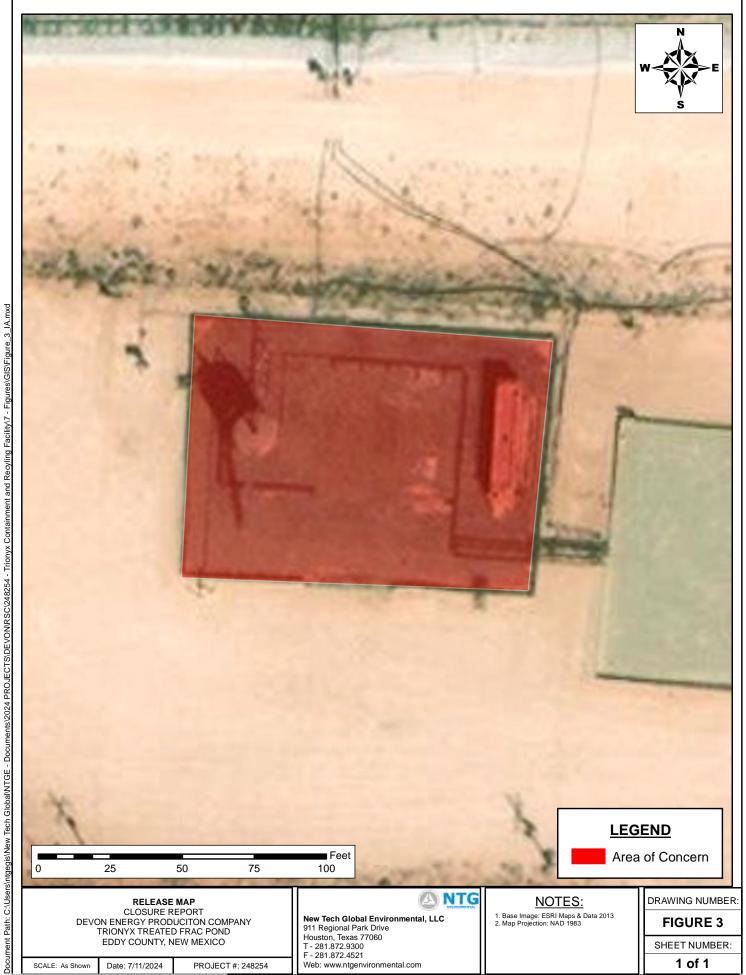
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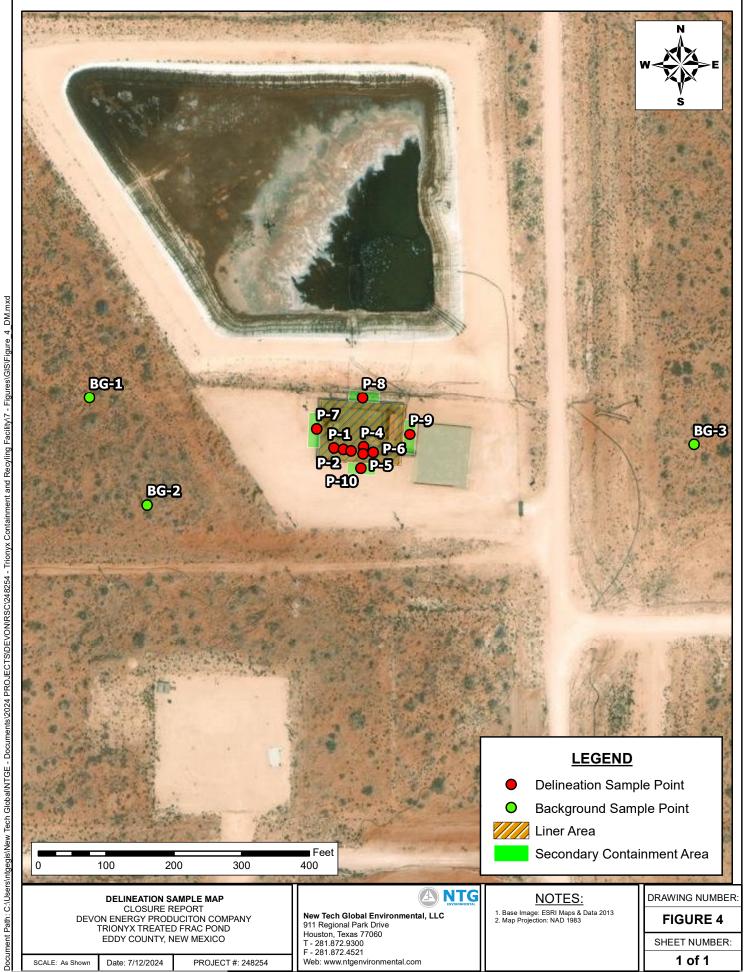
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SITE CHARACTERIZATION INFORMATION

NMOCD Closure Criteria

Triony Containment and Recylcing 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 (19.1	5.29.12.B(4) aı	nd Table 1 NM	AC)						
Donth to Croundwater (ft)		Closure Criteria (mg/kg)							
Deptil to Groundwater (it)	Depth to Groundwater (ft)			GRO + DRO	BTEX	Benzene			
< 50		600	100		50	10			
51 - 100		10,000	2,500	1,000	50	10			
>100	х	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								
<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		600	100		50	10			
<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

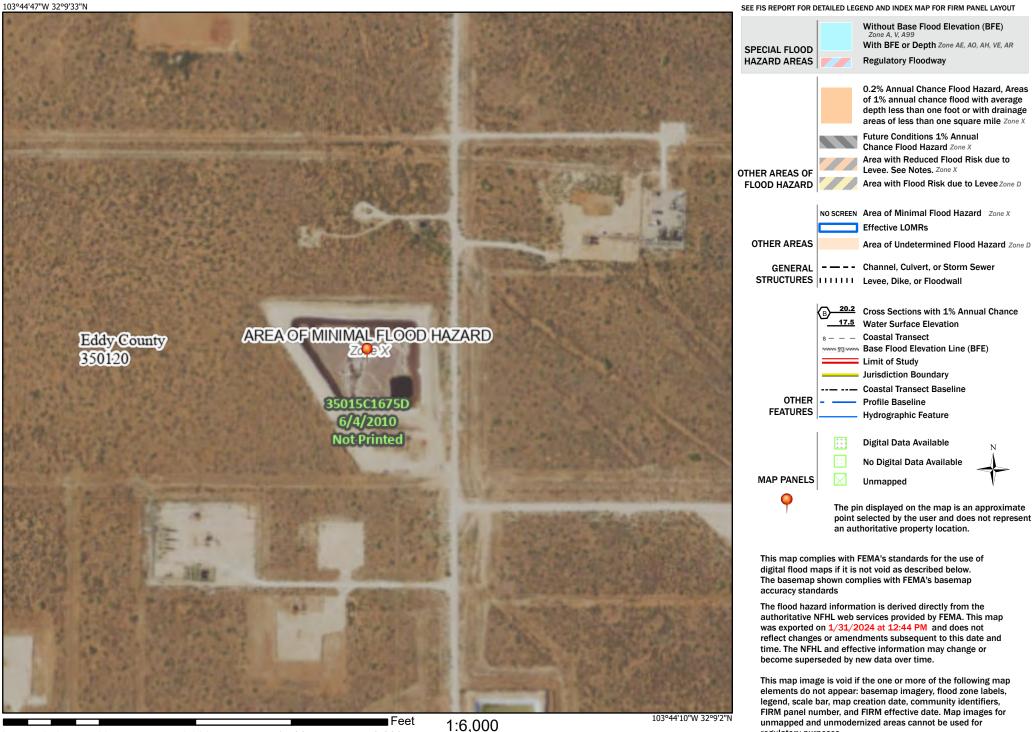
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Legend

regulatory purposes.

Page 17 of 115



Releasea to Imaging: 7/26/2024 92.48:59 PM 1,500 2,000

Basemap Imagery Source: USGS National Map 2023

U.S. Fish and Wildlife Service National Wetlands Inventory



January 31, 2024

Wetlands

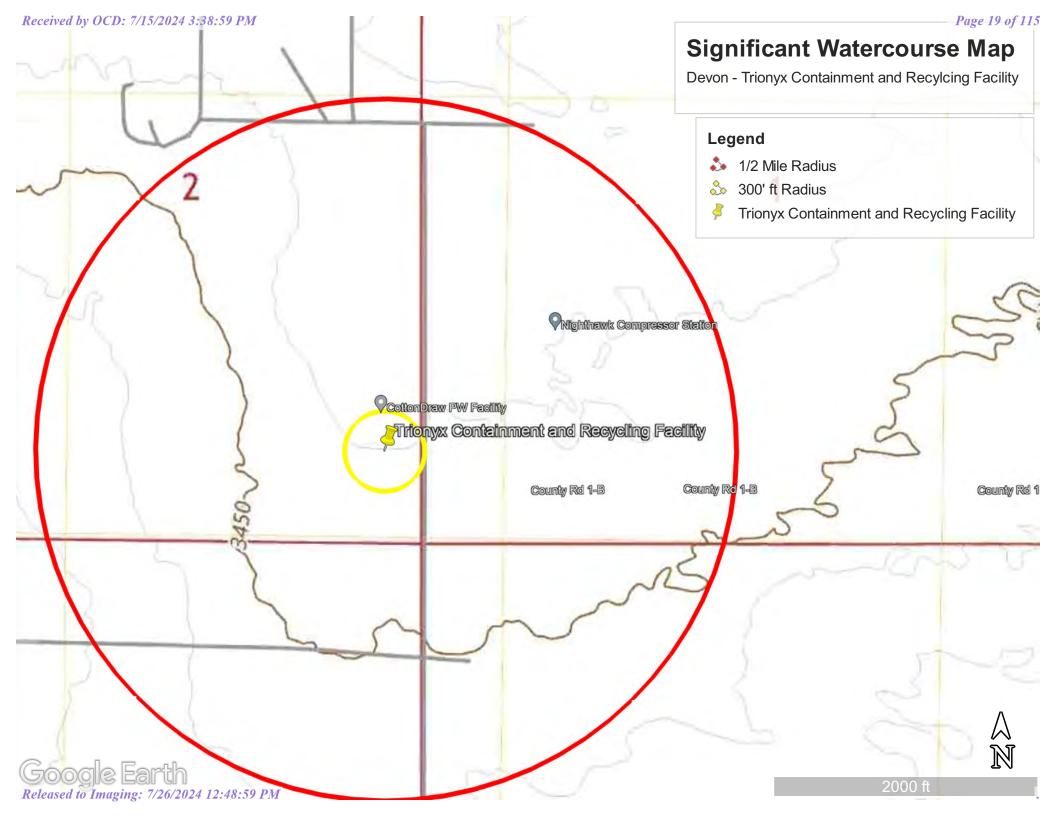
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

Lake Other Riverine

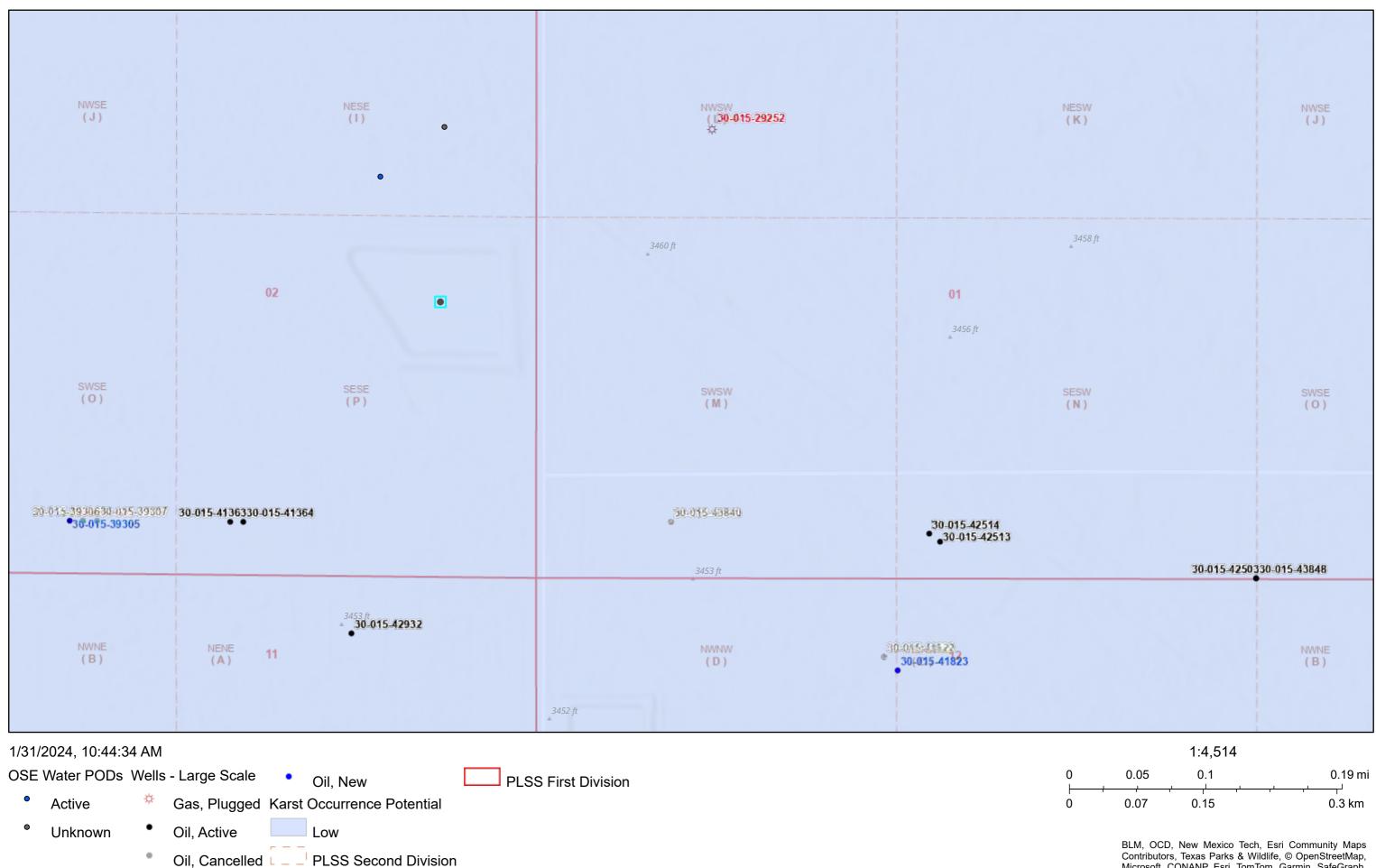
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Released to Imaging: 7/26/2024 12:48:59 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper



OCD Well Locations



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

New Mexico Oil Conservation Division

OSE POD Location Map



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

GIS WATERS PODs

OSE District Boundary

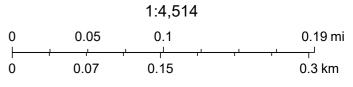
Active

New Mexico State Trust Lands

Subsurface Estate

Both Estates

0



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

		< 1	ers are 1=N ters are sm				(NAD83 U	TM in meters)	
Well Tag PO	D Number	Q64	Q16 Q4	Sec	Tws	Rng	X	Y	
С	03830 POD1	4	2 4	02	25S	31E	618632	3558432 🌍	
Driller License:	1607	Driller	Compa	ny:	DU	RAN D	RILLING		
Driller Name:	DURAN, LUIS A.								
Drill Start Date:	01/28/2015	Drill F	'inish Da	te:	02	2/02/20	15 PI	ug Date:	
Log File Date:	02/23/2015	PCW Rcv Date:			So	ource:	Shallow		
Ритр Туре:		Pipe D	ischarge	Size:	1		Es	stimated Yield:	15 GPM
Casing Size:	7.00	Depth	Well:		4:	50 feet	D	epth Water:	
Wat	er Bearing Stratifica	ations:	Т	op 1	Bottom	Desc	ription		
			3	48	378	8 Sand	stone/Grave	l/Conglomerate	
			3	84	448	Sand	stone/Grave	l/Conglomerate	

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, or suitability for any particular purpose of the data.

1/31/24 10:47 AM

POINT OF DIVERSION SUMMARY

PHOTOGRAPHIC LOG

Photograph No. 1

Description:

Facility:	Trionyx Containment and Recycling Facility
County:	Eddy County, New Mexico

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
 Facility
- County: Eddy County, New Mexico

Description:

Area of Secondary Lined Containment.





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.



© 238° SW (T) ● 32.153863, -103.741044 ±18 m ▲ 1036m

W

SW

1.10



NW

Photograph No. 6

- Facility: Trionyx Containment and Recycling Facility
- County: Eddy County, New Mexico

Description:

Area of Secondary Lined Containment.





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
 Facility
- County: Eddy County, New Mexico

Description:

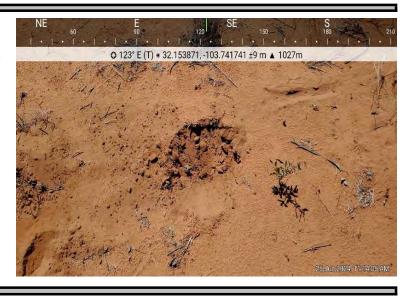
View of background sampling area





Photograph No. 10

Facility:	Trionyx Containment and Recycling Facility
County:	Eddy County, New Mexico
Description: View of Backgrou	ind 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
 Facility
- County: Eddy County, New Mexico

Description:

View of Background Sampling Area







LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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/qa/lab accred certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Sample ID	le 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

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*=Accredited Analyte

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Celeg D. Keine

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: Project Number: Project Manager: 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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	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
			Cardi	nal Laborato	ories					
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	СТ	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	

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Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706		Project No Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	Reported: 09-May-24 16:46						
				P-1 1-1.5						
			H24	42107-02 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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

200

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Sodium

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mg/kg dry

100

B241002

AWG

30-Apr-24

6010B

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Celey D. Keene, Lab Director/Quality Manager

<200



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706			Project No Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	Reported: 09-May-24 16:46					
				P - 1 2-2.5 42107-03 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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 An	alytical Labo	ratories					
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	

mg/kg dry

mg/kg dry

100

100

B241002

B241002

AWG

AWG

30-Apr-24

30-Apr-24

6010B

6010B

200

200

Cardinal Laboratories

Potassium

Sodium

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

928

<200



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706		Project N Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	Reported: 09-May-24 16:46						
				P - 1 3-3.5 42107-04 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Card	inal Laborato	ries					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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Celeg D. Keine

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 No Project Ma	Project: TRIO umber: 2482 anager: ETHA Fax To:	Reported: 09-May-24 16:46					
				P - 1 4-4.5 42107-05 (Soi	I)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ries					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706		Project Ne Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	Reported: 09-May-24 16:46						
				P - 2 0-6'' 42107-06 (Soi	D					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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 An	alytical Labo	ratories					
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	

mg/kg dry

mg/kg dry

100

100

B241002

B241002

AWG

AWG

30-Apr-24

30-Apr-24

6010B

6010B

200

200

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Potassium Sodium

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506



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706		Project N Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	AND REC	Reported: 09-May-24 16:46					
				P-2 1-1.5						
			H2	42107-07 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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. MIDLAND TX, 79706	SUITE C		Project No Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	54		AND REC	0	46	
				P - 2 2-2.5 42107-08 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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 An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706		Project N Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46					
				P - 2 3-3.5 42107-09 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Card	inal Laborato	ories					
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	СТ	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 An	alytical Labo	ratories					
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. MIDLAND TX, 79706	SUITE C		Project No Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	54		AND REC	0	Reported: 9-May-24 16:	46
				P-2 4-4.5	D)					
			H24	42107-10 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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	

mg/kg dry

100

B241002

AWG

30-Apr-24

6010B

200

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Sodium

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333

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 5 MIDLAND TX, 79706	SUITE C		Project: TRIONYX CONTAINMENT AND REC Project Number: 248254 Project Manager: ETHAN SESSUMS Fax To:					Reported: 09-May-24 16:46		
				P - 3 0-6'' 42107-11 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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	СТ	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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Page 43 of 115



Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46				
				P - 3 1-1.5 42107-12 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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 An	alytical Labo	ratories					
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	

mg/kg dry

100

B241002

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project No Project Ma	Project: TRIC umber: 2482 anager: ETH/ ⁻ ax To:	54		AND REC	0	Reported: 9-May-24 16:	46
				P - 3 2-2.5 42107-13 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
Total Metals by ICP									(040D	
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	

mg/kg dry

mg/kg dry

100

100

B241002

B241002

AWG

AWG

30-Apr-24

30-Apr-24

6010B

6010B

200

200

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Potassium Sodium

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 5 MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	Project: TRIC umber: 2482 nager: ETHA Fax To:	54		AND REC	0	46	
				P - 3 3-3.5 42107-14 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	800		20.0	mg/kg	1	4042228	СТ	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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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Page 46 of 115

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706		Project Ne Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46					
				P - 3 4-4.5 42107-15 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	SUITE C		Project Ni Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	AND REC	Reported: 09-May-24 16:46				
				P - 4 0-6'' 42107-16 (Soi	n					
[Π24	42107-10 (30)	u <i>)</i>					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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 An	alytical Labo	ratories					
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	

mg/kg dry

100

B241002

AWG

30-Apr-24

6010B

200

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Sodium

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328

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	SUITE C		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 42107-17 (Soi	il)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardi	inal Laborato	ories							
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	СТ	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	СТ	30-Apr-24	310.1M			
			Green An	alytical Labo	oratories							
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			

mg/kg dry

100

B241002

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	SUITE C		Project N Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	54		AND REC	0	Reported: 9-May-24 16:	46
				P - 4 2-2.5 42107-18 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Card	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	SUITE C		Project Ne Project Ma	Project: TRIC umber: 2482 anager: ETH/ ⁻ ax To:	AND REC	Reported: 09-May-24 16:46				
				P - 4 3-3.5 42107-19 (Soi	Ð					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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 An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project No Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46				
				P - 4 4-4.5	31)					
			H24	42107-20 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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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'' 42107-21 (Soi	I)							
Analyte Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
		Cardi	nal Laborato	ories							
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	СТ	25-Apr-24	120.1			
рН* 7.22		0.100	pH Units	1	4042304	CT	24-Apr-24	9045			
Temperature °C19.2			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 An	alytical Labo	ratories							
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			
8											

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

SD2

200

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Sodium

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299

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706		Project Nu Project Ma	Project: TRIC umber: 2482 inager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46					
				P - 5 1-1.5 42107-22 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

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Potassium Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	SUITE C		Project No Project Ma	Project: TRIC umber: 2482 anager: ETHA Fax To:	Reported: 09-May-24 16:46					
				P - 5 2-2.5 42107-23 (Soi	I)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	SUITE C		Project Ne Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46				
				P-5 3-3.5						
			H24	42107-24 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 1 MIDLAND TX, 79706		Project Nu Project Ma	Project: TRIC umber: 2482 anager: ETH/ ⁻ ax To:	AND REC	Reported: 09-May-24 16:46					
				P - 5 4-4.5 42107-25 (Soi	I)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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 An	alytical Labo	ratories					
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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Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 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'' 42107-26 (Soi	D					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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	

mg/kg dry

mg/kg dry

100

100

B241003

B241003

AWG

AWG

30-Apr-24

30-Apr-24

6010B

6010B

200

200

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Potassium Sodium

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295



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 5 MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	Project: TRIO umber: 2482 inager: ETHA ⁻ ax To:	Reported: 09-May-24 16:46					
			-	P-6 1-1.5						
			H24	42107-27 (Soi	I)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ries					
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 An	alytical Labo	ratories					
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	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 9 MIDLAND TX, 79706	SUITE C		Project No Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46				
				P - 6 2-2.5 42107-28 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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 An	alytical Labo	oratories					
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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				P - 6 3-3.5 42107-29 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	oratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706		Project Nu Project Ma	Project: TRIC umber: 2482 inager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46					
			-	P - 6 4-4.5 42107-30 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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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		
			H24	P - 7 4 42107-31 (Soi	Ð					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	Project: TRIC umber: 2482 anager: ETH/ Fax To:	Reported: 09-May-24 16:46					
				P-8 4						
			H24	42107-32 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	Project: TRIO umber: 2482 anager: ETHA Fax To:	AND REC	Reported: 09-May-24 16:46				
				P-9 4						
			H24	42107-33 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ries					
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 An	alytical Labo	ratories					
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	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	701 TRADEWINDS BLVD. SUITE C			Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46				
			H2	P - 10 4 42107-34 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	oratories					
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	
a 1:			• • • •		4.0.0	DA 44 0 0 A			60400	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

Cardinal Laboratories

Sodium

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Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706		Project Nu Project Ma	Project: TRIC umber: 2482 inager: ETH/ Fax To:	Reported: 09-May-24 16:46						
				SW - 1 0-4 42107-35 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. 5 MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	Project: TRIC umber: 2482 inager: ETHA Fax To:	AND REC	Reported: 09-May-24 16:46				
				SW - 2 0-4 42107-36 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ries					
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	СТ	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 An	alytical Labo	ratories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project Nu Project Ma	roject: TRIC umber: 2482 nager: ETHA ax To:	AND REC	Reported: 09-May-24 16:46				
				SW-3 0-4						
			H24	42107-37 (Soi	1)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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 An	alytical Labo	ratories					
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	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. MIDLAND TX, 79706	701 TRADEWINDS BLVD. SUITE C			Project: TRIC umber: 2482 anager: ETH/ Fax To:	AND REC	Reported: 09-May-24 16:46				
			~	SW - 4 0-4 42107-38 (Soi	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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	СТ	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	СТ	30-Apr-24	310.1M	
			Green An	alytical Labo	oratories					
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	

mg/kg dry

100

B241003

AWG

30-Apr-24

6010B

200

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Sodium

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	SUITE C		Project: TRIONYX CONTAINMENT AND REC Project Number: 248254 Project Manager: ETHAN SESSUMS Fax To:							Reported: 09-May-24 16:46		
			_	- 1 SURFA 42107-39 (Soi	-							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardi	inal Laborato	ories							
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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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				
				- 2 SURFA 42107-40 (Soi						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	inal Laborato	ories					
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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30-Apr-24

310.1M

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706			Project Nu Project Ma	Project: TRIC umber: 2482 inager: ETHA Fax To:	54	Reported: 09-May-24 16:46				
			_	3 SURFA	-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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

Green Analytical Laboratories

mg/kg

1

4042232

CT

4.00

448

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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Alkalinity, Total

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

Cardinal Laboratories											
		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 4042205 - 1:4 DI Water											
Blank (4042205-BLK1)				Prepared &	Analyzed:	22-Apr-24					
Chloride	ND	16.0	mg/kg								
LCS (4042205-BS1)				Prepared &	Analyzed:	22-Apr-24					
Chloride	480	16.0	mg/kg	400		120	80-120				
LCS Dup (4042205-BSD1)				Prepared &	Analyzed:	22-Apr-24					
Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20		
Batch 4042224 - 1:4 DI Water											
Blank (4042224-BLK1)				Prepared &	z Analyzed:	22-Apr-24					
Chloride	ND	16.0	mg/kg								
LCS (4042224-BS1)				Prepared &	Analyzed:	22-Apr-24					
Chloride	448	16.0	mg/kg	400		112	80-120				
LCS Dup (4042224-BSD1)				Prepared &	Analyzed:	22-Apr-24					
Chloride	432	16.0	mg/kg	400		108	80-120	3.64	20		
Batch 4042228 - 1:4 DI Water											
Blank (4042228-BLK1)				Prepared: 2	22-Apr-24 A	Analyzed: 3	0-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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 09-May-24 16:46
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Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC	_	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4042228 - 1:4 DI Water										
LCS (4042228-BS1)				Prepared: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 09-May-24 16:46
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Inorganic Compounds - Quality Control

Cardinal Laboratories

				a ''	~		WEEG			
Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4042232 - 1:4 DI Water										
Blank (4042232-BLK1)				Prepared: 2	2-Apr-24 A	nalyzed: 3	0-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: 2	2-Apr-24 A	nalyzed: 3	0-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: 2	2-Apr-24 A	nalyzed: 3	0-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: 2	.3-Apr-24 A	nalyzed: 2	6-Apr-24			
pH	7.08	p	oH Units	7.00		101	90-110			
Conductivity	505		uS/cm	500		101	80-120			
Duplicate (4042302-DUP1)	Sou	rce: H242107-0	1	Prepared: 2	3-Apr-24 A	nalyzed: 2	6-Apr-24			
pH	8.23	0.100 p	oH Units		8.17			0.732	20	
Conductivity	183	1.00 um	hos/cm @ 25°C		182			0.274	20	
Temperature °C	18.7	p	oH Units		19.0			1.59	200	
Batch 4042303 - 1:1 DI										
LCS (4042303-BS1)				Prepared: 2	.3-Apr-24 A	nalyzed: 2	6-Apr-24			
pH	7.13	р	oH Units	7.00	*	102	90-110			
Conductivity	508		uS/cm	500		102	80-120			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

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Result		•		%RFC		RPD		Notes
Result	Linit Onto	Level	Result	Juice	Linits	ICI D	Emit	Notes
Sou	Source: H242107-11 P		Prepared: 23-Apr-24 Analyzed: 26-Apr-24					
8.41	0.100 pH Units		8.44			0.356	20	
169	1.00 umhos/cm@ 25°C		169			0.236	20	
18.8	pH Units		19.4			3.14	200	
		Prepared: 2	3-Apr-24 A	nalyzed: 2	6-Apr-24			
7.13	pH Units	7.00		102	90-110			
515	uS/cm	500		103	80-120			
Sou	rce: H242107-21	Prepared: 23-Apr-24 Analyzed: 26-Apr-24						
7.23	0.100 pH Units		7.22			0.138	20	
2450	1.00 umhos/cm @		2450			0.0817	20	
2450	1.00 umnos/em @ 25°C		2450					
2450 19.4	0		19.2			1.04	200	
	25°C						200	
	25°C	Prepared: 2	19.2	nalyzed: 2	6-Apr-24		200	
	25°C		19.2	nalyzed: 2	6-Apr-24 90-110		200	
19.4	25°C pH Units	Prepared: 2	19.2	-	-		200	
19.4 7.11 523	25°C pH Units pH Units	Prepared: 2 7.00	19.2 3-Apr-24 A	102 105	90-110 80-120		200	
19.4 7.11 523	25°C pH Units pH Units uS/cm	Prepared: 2 7.00 500	19.2 3-Apr-24 A	102 105	90-110 80-120		200	
19.4 7.11 523 Sou	25°C pH Units pH Units uS/cm rce: H242107-31	Prepared: 2 7.00 500 Prepared: 2	19.2 3-Apr-24 A 3-Apr-24 A	102 105	90-110 80-120	1.04		
	8.41 169 18.8 7.13 515 Sou 7.23	Source: H242107-11 8.41 0.100 pH Units 169 1.00 umhos/cm @ 25°C 18.8 pH Units 7.13 pH Units 515 uS/cm Source: H242107-21 7.23 7.23 0.100 pH Units	Result Limit Units Level Source: H242107-11 Prepared: 2 8.41 0.100 pH Units Prepared: 2 169 1.00 umhos/cm @ 25°C 18.8 pH Units Prepared: 2 7.13 pH Units 7.00 515 uS/cm 500 Source: H242107-21 Prepared: 2 7.23 0.100 pH Units	Result Limit Units Level Result Source: H242107-11 Prepared: 23-Apr-24 A 8.41 0.100 pH Units 8.44 169 1.00 umhos/cm @ 169 25°C 18.8 pH Units 19.4 Prepared: 23-Apr-24 A 7.13 pH Units 7.00 515 uS/cm 500 Source: H242107-21 Prepared: 23-Apr-24 A 7.23 0.100 pH Units 7.22	Result Limit Units Level Result %REC Source: H242107-11 Prepared: 23-Apr-24 Analyzed: 2 8.41 0.100 pH Units 8.44 169 1.00 umhos/cm @ 169 25°C 18.8 pH Units 19.4 Prepared: 23-Apr-24 Analyzed: 2 7.13 pH Units 7.00 102 515 uS/cm 500 103 Source: H242107-21 Prepared: 23-Apr-24 Analyzed: 2 7.23 0.100 pH Units 7.22	Result Limit Units Level Result %REC Limits Source: H242107-11 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 8.41 0.100 pH Units 8.44 169 1.00 umhos/cm @ 169 25°C 18.8 pH Units 19.4 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 7.13 pH Units 19.4 7.13 pH Units 7.00 102 90-110 515 uS/cm 500 103 80-120 Source: H242107-21 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 7.23 0.100 pH Units 7.22	Result Limit Units Level Result %REC Limits RPD Source: H242107-11 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 8.41 0.100 pH Units 8.44 0.356 169 1.00 umhos/cm @ 169 0.236 25°C 25°C 18.8 pH Units 19.4 3.14 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 7.13 pH Units 7.00 102 90-110 515 uS/cm 500 103 80-120 Source: H242107-21 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 7.23 0.100 pH Units 7.22 0.138	Result Limit Units Level Result %REC Limits RPD Limit Source: H242107-11 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 8.41 0.100 pH Units 8.44 0.356 20 169 1.00 umbos/cm @ 169 0.236 20 25°C 19.4 3.14 200 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 Source: H242107-21 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 Source: H242107-21 Prepared: 23-Apr-24 Analyzed: 26-Apr-24 7.23 0.100 pH Units 7.22 0.138

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

A sector	Dlt	Reporting	TT	Spike	Source	0/DEC	%REC	DDD	RPD	Net
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4042306 - 1:1 DI										
LCS (4042306-BS1)				Prepared: 2	23-Apr-24 A	Analyzed: 2	6-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 Pr			Prepared: 2	23-Apr-24 A	Analyzed: 2	6-Apr-24			
pH	7.71	0.100	pH Units		7.64			0.912	20	
Conductivity	338	1.00 τ	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							
LCS (4042309-BS1)				Prepared &	Analyzed:	23-Apr-24				
Chloride	480	16.0	mg/kg	400		120	80-120			
LCS Dup (4042309-BSD1)				Prepared &	Analyzed:	23-Apr-24				
Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20	
Batch 4042503 - 1:4 DI Water										
Blank (4042503-BLK1)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Sulfate	ND	10.0	mg/kg							
LCS (4042503-BS1)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Sulfate	16.9	2.50	mg/kg	20.0		84.5	80-120			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
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		
Batch 4042504 - 1:4 DI Water											
Blank (4042504-BLK1)	Prepared: 25-Apr-24 Analyzed: 26-Apr-24										
Sulfate	ND	10.0	mg/kg								
LCS (4042504-BS1)				Prepared: 2	25-Apr-24 A	analyzed: 20	6-Apr-24				
Sulfate	16.9	2.50	mg/kg	20.0		84.5	80-120				
LCS Dup (4042504-BSD1)				Prepared: 2	25-Apr-24 A	analyzed: 20	6-Apr-24				
Sulfate	16.5	2.50	mg/kg	20.0		82.6	80-120	2.21	20		
Batch 4042505 - 1:4 DI Water											
Blank (4042505-BLK1)				Prepared: 2	25-Apr-24 A	analyzed: 20	6-Apr-24				
Sulfate	ND	10.0	mg/kg								
LCS (4042505-BS1)				Prepared: 2	25-Apr-24 A	analyzed: 20	6-Apr-24				
Sulfate	16.9	2.50	mg/kg	20.0		84.5	80-120				
LCS Dup (4042505-BSD1)				Prepared: 2	25-Apr-24 A	analyzed: 20	6-Apr-24				
Sulfate	16.5	2.50	mg/kg	20.0		82.6	80-120	2.21	20		

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 09-May-24 16:46
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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 B241002 - EPA 3050										
Blank (B241002-BLK1)				Prepared: 2	26-Apr-24 A	nalyzed: 3	0-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: 2	26-Apr-24 A	nalyzed: 3	0-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: 2	26-Apr-24 A	analyzed: 3	0-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: 2	26-Apr-24 A	analyzed: 3	0-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: 2	26-Apr-24 A	analyzed: 3	0-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: 2	26-Apr-24 A	nalvzed: 3	0-Apr-24			

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

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 09-May-24 16:46
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Total Metals by ICP - Quality Control

Green Analytical Laboratories

Analyte Result Limit Units Level Result %REC Limits RPD Limit Batch B241003 - EPA 3050			Reporting		Spike	Source		%REC		RPD	
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-24 200 Magnesium 314 100 mg/kg dry 238 95.8 80-120 LCS Dup (B241003-BSD1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 30-Apr-24 300 32.5 80-120 0.213 20 LCS Dup (B241003-BSD1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 30.60889 20 0.0889 20 LCS Dup (B241003-BSD2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 0.0889 20 LCS Dup (B241003-BSD2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 0.0889 20 LCaicum 224 100 mg/kg dry 332 96.0 80-120 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 1.40 20 30 319 100 mg/kg dry<		Result	1 0	Units			%REC		RPD		Notes
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 20 213 20 Sodium 1520 200 mg/kg dry 332 94.9 80-120 0.213 20 LCS Dup (B241003-BSD1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 0.0889 20 LCS Dup (B241003-BSD2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 0.0889 20 LCS Dup (B241003-BSD2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 1.60 20 Magnesium 319 100 mg/kg dry 332 96.0 80-120 1.40 20 Blank (B241004-BLK1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 20 20 20	241003 - EPA 3050										
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 378 94.9 80-120 0.213 20 Det assium 359 200 mg/kg dry 238 93.9 80-120 0.2089 20 LCS Dup (B241003-BSD2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 Calcium 224 100 mg/kg dry 332 96.0 80-120 1.40 20 Bark (B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 1.40 20 Bank (B241004 - BLK1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 1.40 20 Magnesium ND 100 mg/kg dry 332 96.0 80-120 1.40 20 Sodium ND 1	1003-BS1)				Prepared: 2	26-Apr-24 A	analyzed: 3	0-Apr-24			
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 (B241003-BSD1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Sodium 1520 200 mg/kg dry 332 94.7 80-120 0.213 20 Colsum 1520 200 mg/kg dry 378 94.9 80-120 0.0889 20 Dotassium 359 200 mg/kg dry 238 93.9 80-120 0.0889 20 LCS (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 238 93.9 80-120 1.40 20 Blank (B241004- EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 S0 S0 20 20 Blank (B241004-BLK1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 S0 S0 20 20 20 S0		358	200	mg/kg dry	378		94.8	80-120			
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 56.8 80-120 0.213 20 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 332 96.0 80-120 1.96 20 Magnesium 319 100 mg/kg dry 332 96.0 80-120 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry Galcium ND 100 mg/kg dry 332 96.0 80-120 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 20 20		1520	200	mg/kg dry	1630		93.3	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 378 94.9 80-120 0.213 20 Potassium 359 200 mg/kg dry 378 94.9 80-120 0.0213 20 ICS Dup (B241003-BSD2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Image: Compared text and text an	1003-BS2)				Prepared: 2	26-Apr-24 A	analyzed: 3	0-Apr-24			
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 Prepared: 20-Apr-24 Analyzed: 30-Apr-24 Calcium 224 100 mg/kg dry 332 96.0 80-120 1.96 20 Magnesium 319 100 mg/kg dry 332 96.0 80-120 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry S0-400 Apr-24 Magnesium ND 100 mg/kg dry S0-400 Apr-24 Sodium ND 200 mg/kg dry S0-400 Apr-24 Interval ND 200 mg/kg dry S0-400 Apr-24 Sodium ND 200 mg/kg dry S0-120 Apr-24 LCS (B241004-BS1)		228	100	mg/kg dry	238		95.8	80-120			
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 20 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 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 20 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 20 20 20 Magnesium ND 100 mg/kg dry 30 20 20 20 Sodium ND 200 mg/kg dry 20 20 20 20 LCS (B241004-BS1) Prepared: 26-Apr-24 Analyzed: 03-May-24 20 20 20 20 20 20 20 <td></td> <td>314</td> <td>100</td> <td>mg/kg dry</td> <td>332</td> <td></td> <td>94.7</td> <td>80-120</td> <td></td> <td></td> <td></td>		314	100	mg/kg dry	332		94.7	80-120			
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 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry 332 96.0 80-120 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Calcium ND 200 mg/kg dry Prepared: 26-Apr-24 Analyzed: 03-May-24 Prepared: 26-Apr-24 Analyzed: 03-May-24 LCS (B241004-BS1) Prepared: 26-Apr-24 Analyzed: 03-May-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 <	(B241003-BSD1)				Prepared: 2	26-Apr-24 A	analyzed: 3	0-Apr-24			
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 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry Prepared: 26-Apr-24 Analyzed: 03-May-24 Calcium ND 200 mg/kg dry Sodium Sodium ND 200 LCS (B241004-BS1) Prepared: 26-Apr-24 Analyzed: 03-May-24 Prepared: 26-Apr-24 Analyzed: 03-May-24 Prepared: 26-Apr-24 Analyzed: 03-May-24 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Prepared: 26-Apr-24 Analyzed: 30-Apr-24		1520	200	mg/kg dry	1630		93.5	80-120	0.213	20	
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 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry 0 7 Magnesium ND 100 mg/kg dry 0 7 7 Calcium ND 100 mg/kg dry 0 7 7 7 Potassium ND 200 mg/kg dry 0 0 7		359	200	mg/kg dry	378		94.9	80-120	0.0889	20	
Magnesium 319 100 mg/kg dry 332 96.0 80-120 1.40 20 Batch B241004 - EPA 3050 Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Blank (B241004-BLK1) Prepared: 26-Apr-24 Analyzed: 30-Apr-24 Magnesium ND 100 mg/kg dry Calcium ND 100 mg/kg dry Calcium ND 100 mg/kg dry Calcium ND 200 mg/kg dry Sodium ND 200 mg/kg dry Calcium ND 200 mg/kg dry CAS (B241004-BS1) Prepared: 26-Apr-24 Analyzed: 03-May-24 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24	(B241003-BSD2)				Prepared: 2	26-Apr-24 A	analyzed: 3	0-Apr-24			
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 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24		224	100	mg/kg dry	238		93.9	80-120	1.96	20	
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 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24		319	100	mg/kg dry	332		96.0	80-120	1.40	20	
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 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24	241004 - EPA 3050										
CalciumND100mg/kg dryPotassiumND200mg/kg drySodiumND200mg/kg dryPrepared: 26-Apr-24 Analyzed: 03-May-24CalciumND100mg/kg dry80-120LCS (B241004-BS2)Prepared: 26-Apr-24 Analyzed: 30-Apr-24	241004-BLK1)				Prepared: 2	26-Apr-24 A	analyzed: 3	0-Apr-24			
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 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24		ND	100	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		ND	100	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		ND	200	mg/kg dry							
Calcium ND 100 mg/kg dry 80-120 LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24		ND	200	mg/kg dry							
LCS (B241004-BS2) Prepared: 26-Apr-24 Analyzed: 30-Apr-24	1004-BS1)				Prepared: 2	26-Apr-24 A	nalyzed: 0	3-May-24			
		ND	100	mg/kg dry				80-120			
Sodium 1540 200 mg/kg dry 1630 94.9 80.120	1004-BS2)				Prepared: 2	26-Apr-24 A	nalyzed: 3	0-Apr-24			
1540 mg/kg/ury 1650 74.9 00-120		1540	200	mg/kg dry	1630		94.9	80-120			
Potassium 357 200 mg/kg dry 378 94.5 80-120		357	200	mg/kg dry	378		94.5	80-120			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 09-May-24 16:46
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Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B241004 - EPA 3050										
LCS (B241004-BS3)				Prepared: 2	26-Apr-24 A	analyzed: 3	0-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: 2	26-Apr-24 A	analyzed: 3	0-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: 2	26-Apr-24 A	analyzed: 3	0-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. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

NTG Environmental Company Name: Company Name: 209 W McKay St Address. Address. 432-701-2159 Email: esessums@mtobal.com 432-701-2159 Email: esessums@mtobal.com Facility 248254 Seuine Rourine Rourine 248254 Seuine No No Seuine Rourine 248254 Ves No Comection Factor: Seuine Turn Around France Seals Ves No Comection Factor: Seuine Turn Graph #dit 205 Corrected Temperature Seuine Graph #dit 25.3 4/18/2024 X Graph 5 25.3 4/18/2024 X Graph 5 26.5 4/18/2024 X Graph 5					-			J	10000	0			(
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Page 55 of 59

Page 83 of 115

Chain of Custody

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Chain of Custody

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Page 57 of 59

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Chain of Custody



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Page 86 of 115

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Page 58 of 59



Work Order No: H242107

Chain of Custody

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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Notice: Signature of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of send scheme of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	liable only for the co	st of samples and to	shall not ass	is a valid purchase sume any responsi charpe of \$5 for ea	order from c bility for any sch sample si	client comp losses or e ubmitted to	any to Xen expenses in Xenco, bu	co, its affi nourred by	liates and the clien zed. The	d subcontr nt if such l rse terms	actors. It osses are vill be enf	assigns s due to cin proed unle	andard b umstance ss previo	erms and co is beyond to isly negotia	nditions he control ted.							
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Page 59 of 59

Page 87 of 115

Chain of Custody



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/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager

٦



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

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	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



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 13-Jun-24 08:57
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BG-1 SURFACE

H243026-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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

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Celey D. Keene, Lab Director/Quality Manager



	NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUIT MIDLAND TX, 79706	ΈC		Project Num Project Mana	ber: 248			T AND REC	1	Reported: 3-Jun-24 08:	:57
_					SURFA)26-02 (Se						
	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

		Card	inal Laborator	ies				
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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Celeg D. Keine

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 Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 13-Jun-24 08:57
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BG-3 SURFACE

H243026-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 13-Jun-24 08:57
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4042232 - 1:4 DI Water										
Blank (4042232-BLK1)				Prepared: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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 Cl	iem									
LCS (4053148-BS1)				Prepared &	Analyzed:	31-May-24	4			
Conductivity	480		uS/cm	500		96.0	80-120			
pH	7.03		pH Units	7.00		100	90-110			
Duplicate (4053148-DUP1)	Sou	rce: H243026	6-01	Prepared &	Analyzed:	31-May-24	4			
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										
				Dranarad. ()3 Jun 24 A	analyzed: 04	4-Jun-24			
Blank (4060314-BLK1)				Trepareu. (75-Jun-24 A	maryzeu. 0-	T-Jun-2-T			

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Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 13-Jun-24 08:57
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Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4060314 - 1:4 DI Water										
LCS (4060314-BS1)				Prepared: ()3-Jun-24 A	nalyzed: 04	4-Jun-24			
Sulfate	17.2	2.50	mg/kg	20.0		86.2	80-120			
LCS Dup (4060314-BSD1)				Prepared: ()3-Jun-24 A	nalyzed: 04	4-Jun-24			
Sulfate	16.1	2.50	mg/kg	20.0		80.4	80-120	7.08	20	
Batch 4060340 - 1:4 DI Water										
Blank (4060340-BLK1)				Prepared &	Analyzed:	03-Jun-24				
Chloride	ND	16.0	mg/kg							
LCS (4060340-BS1)				Prepared &	Analyzed:	03-Jun-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
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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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 13-Jun-24 08:57
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Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B241507 - EPA 3050										
Blank (B241507-BLK1)				Prepared: ()5-Jun-24 A	nalyzed: 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: ()5-Jun-24 A	nalyzed: 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: ()5-Jun-24 A	nalyzed: 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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Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager

analyses. Al claims including those for negligence and any oth service. In no event shall Cardinal be liable for incidental or co- efficience or successors anising out of or related to the performan Relinquished By: Pelinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0	Address: 204 City: Gurlsbau Phone #: 254-26 Project Name: Triunyx Project Location: Triunyx Project Location: Triunyx Profiles Name: Triu	10: Company Name:
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s I No Add'I Phone #: Please provide Email address: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C		ANALYSIS REQUEST

Page 10 of 10



July 11, 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 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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager

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

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 11-Jul-24 10:49	
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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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Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 11-Jul-24 10:49
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BG - 1

H243784-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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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Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTALProject:TRIONYX CONTAINM701 TRADEWINDS BLVD. SUITE CProject Number:248254MIDLAND TX, 79706Project Manager:ETHAN SESSUMSFax To:Fax To:Fax To:							AND REC		Reported: 11-Jul-24 10:49	
				BG - 2						
			H24	43784-02 (Soi	l)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardi	nal Laborato	ories					
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 An	alytical Labo	ratories					
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	

mg/kg dry

100

B241873

AWG

08-Jul-24

6010B

200

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Sodium

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Celey D. Keene, Lab Director/Quality Manager

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NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. S MIDLAND TX, 79706	701 TRADEWINDS BLVD. SUITE C Project Number: 248254								Reported: 11-Jul-24 10:49		
			Ш2	BG - 3 43784-03 (Soi	n						
				+5784-05 (301	1)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardi	nal Laborato	ries						
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 An	alytical Labo	ratories						
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		

200

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Sodium

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mg/kg dry

100

B241873

AWG

08-Jul-24

6010B

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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4042232 - 1:4 DI Water										
Blank (4042232-BLK1)				Prepared: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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: 2	22-Apr-24 A	Analyzed: 3	0-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 Ch	em									
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)	Sou	rce: 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				

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 11-Jul-24 10:49
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Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4062855 - 1:4 DI Water										
LCS (4062855-BS1)				Prepared &	& Analyzed:	28-Jun-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4062855-BSD1)	Prepared & Analyzed: 28-Jun-24									
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 4062860 - 1:4 DI Water										
Blank (4062860-BLK1)				Prepared &	& Analyzed:	28-Jun-24				
Sulfate	ND	10.0	mg/kg							
LCS (4062860-BS1)				Prepared &	& Analyzed:	28-Jun-24				
Sulfate	17.5	2.50	mg/kg	20.0		87.6	80-120			
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	

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project Number:	TRIONYX CONTAINMENT AND REC 248254 ETHAN SESSUMS	Reported: 11-Jul-24 10:49
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Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B241873 - EPA 3050										
Blank (B241873-BLK1)				Prepared: (01-Jul-24 A	nalyzed: 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 A	nalyzed: 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 A	nalyzed: 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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*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

R

(575) 393-2326 FAX (575) 393-2476 BILL TO Project Manager: EHkun Sexkams Address: BOP Opinor #: 354, 354, 176, 37 Project #: 343, 354, 176, 37 Project #: 344, 176, 37 Project #: 344, 176, 37 Project #: 344, 176, 37 Project #: 346, 120 Project #: 346, 120 Project #: 346, 120 Project #: 346, 120 Project #: 4	I.D. MATRIX PROJECT Owner: Date: Project Owner: Company: Address: Project Owner: Company: Address: Project Owner: Company: Address: Project Owner: Company: Address: I.D. Recyclung Tuulity State: UM State: Phone #: UM G (G)RAB OR (C)OMP. Fax #: UN G (G)RAB OR (C)OMP. Fax #:
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107 of 115

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District IV

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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	OGRID: 6137
333 West Sheridan Ave. Oklahoma City, OK 73102	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	

Inci

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	Νο
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

detrimental to fresh water

Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	r 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:	OGRID:		
DEVON ENERGY PRODUCTION COMPANY, LP	6137		
333 West Sheridan Ave.	Action Number:		
Oklahoma City, OK 73102	364186		
	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

QUESTIONS

Initial Response

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.			
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.				

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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of leted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for reli the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a dequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
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

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QUESTIONS, Page 3

Action 364186

Page 110 of 115

QUESTIONS (continued)		
Operator:	OGRID:	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	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 ar	d 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 th	at apply or are indicated. This information must be provided to the	e appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	blan approval with this submission	Yes
Attach a comprehensive report der	nonstrating the lateral and vertical extents of soil contamination as	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	extents of contamination been fully delineated	Yes
Was this release entirely co	ntained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in millig	grams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	MAC unless the site characterization report includes completed ex elines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wil	I the remediation commence	02/27/2024
On what date will (or did) th	e final sampling or liner inspection occur	06/25/2024
On what date will (or was) t	he remediation complete(d)	06/25/2024
What is the estimated surfa	ce area (in square feet) that will be reclaimed	0
What is the estimated volum	ne (in cubic yards) that will be reclaimed	0
What is the estimated surfa	ce area (in square feet) that will be remediated	0
What is the estimated volum	ne (in cubic yards) that will be remediated	0
These estimated dates and measur	rements are recognized to be the best guess or calculation at the ti	me of submission and may (be) change(d) over time as more remediation efforts are completed.
	I remediation measures may have to be minimally adjusted in acc diation plan proposed, then it should consult with the division to c	ordance with the physical realities encountered during remediation. If the responsible party has any need to letermine if another remediation plan submission is required.

District I

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

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District III

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

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

QUESTIONS, Page 4

Action 364186

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

QUESTIONS

Remediation Plan (continued)

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 This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (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 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 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 Name: Dale Woodall Title: EHS Professional I hereby agree and sign off to the above statement Email: Dale.Woodall@dvn.com Date: 07/15/2024

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

QUESTIONS, Page 5

Action 364186

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

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

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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

Page 113 of 115

QUESTIONS, Page 6

Action 364186

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	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 re	emediation 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
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed

ocal laws and/or regulations.	The responsible party acknowled	ges they must substanti	ally restore, reclaim,	and re-vegetate	the impacted	surface area to	the conditions	that existe
prior to the release or their fina	al land use in accordance with 19.	.15.29.13 NMAC includi	ng notification to the	OCD when recla	mation and re	-vegetation are	complete.	

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
--	--

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

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Page 114 of 115

Action 364186

QUESTIONS (continued) Operator: OGRID: DEVON ENERGY PRODUCTION COMPANY, LP 6137 333 West Sheridan Ave. Action Number: Oklahoma City, OK 73102 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:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	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