Page 1 of 185

Incident ID	nAPP2222951347
District RP	
Facility ID	
Application ID	

## Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
□ Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.				
OCD Only					
Received by:	Date:				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.				
Closure Approved by:	Date:				
Printed Name:	Title:				

Brad Alker 13026 Vivienne Westmoreland Dr. Cypress, TX 77429 (713) 447-2433 Brad.alker@en-closure.com

## en-closure

May 19, 2023

Mr. Les Teague NexTier Completion Solutions, Inc. 3990 Rogerdale Houston, TX 77042

Re: Chevron Sand Dunes Pad 4 Site Activities Report

Loving, NM

Dear Mr. Teague:

En-closure, LLC (en-closure) has completed the soil assessment for NexTier Completions Solutions, Inc. (NexTier) to address the hydrochloric (HCl) acid release that occurred at Chevron's Sand Dunes Pad 4 wellsite on August 7, 2022.

En-closure was contracted by NexTier to conduct a soil assessment of the HCl acid spill that occurred on Chevron's Sand Dunes Pad 4 wellsite pad located southeast of Loving, NM. One of NexTier's Frac Operations personnel observed a small HCl acid stream emanating from the staged HCl acid tanker on location, which resulted in the release of approximately 69 barrels (2,898 gallons) of HCl acid into the tanker's secondary containment and a portion onto the ground. Approximately 59 barrels (2,478 gallons) of 36% HCl acid was captured in the secondary containment. In addition, approximately 10 barrels (420 gallons) of HCl acid spilled onto the ground but, remained on the engineered well pad. Following removal of the HCl acid from the tanker and the tanker containment, approximately 30 cubic yards of soil was excavated and placed in roll off boxes for transport and disposal to the J&L Landfarm (Permit #NM-01-0023).

#### **Site Assessment Plan:**

Per the previously submitted site assessment plan of September 26, 2022, the area of the hydrochloric acid spill was grided into fifty-six (56) cells, each being 10 feet by 15 feet long in accordance with New Mexico (NM) Oil Conservation Division's (OCD's) sampling guidance using the GPS readings made of the extent of the spill in August 2022. The site assessment plan was approved by NM OCD on January 23, 2023 and is included as an attachment. Proposed soil borings would be placed in the middle of each of the 56 grids. Three samples would be collected from each boring, a surface sample at 0.0 to 0.5 feet bgs, an intermediate sample from 1.5 to 2.0 feet bgs, and a sample from 3.5 to 4.0 feet bgs. The samples would be analyzed for the NM OCD spill criteria.

NM OCD spill assessment criteria requires sampling for benzene, toluene, ethyl benzene, xylenes (BTEX) by EPA Method 8260B and total petroleum hydrocarbon (TPH-8015M) analyses. In discussion with Ms. Jocelyn Harimon, NexTier requested to limit the number of BTEX and TPH samples collected since the spill occurred on a standby pad and did not involve a hydrocarbon release. NexTier proposed to collect a limited number of soil samples that would demonstrate a geographically representative and statistically valid number of samples analyzed for BTEX and TPH rather than analyzing the entire grid for

constituents that would not have been released from a virgin acid spill. Per Ms. Jocelyn Harimon's February 1, 2023 attached email response, NM OCD agreed to NexTier's request to reduce the number of samples analyzed for benzene, BTEX and TPH, and asked for the data to be included in the report along with a written variance request.

### **Site Assessment Activities**

On March 29, 2023, Talon contacted New Mexico 811 to conduct underground utility clearances. No underground utilities were identified in the vicinity of the proposed grid sampling. On April 3, 2022, enclosure personnel met with Chevron Safety and Talon LPE (Talon) to review Chevron's safety policies, review the applicable Job Safety Analysis (JSA) for the proposed operation of Talon's truck-mounted Geoprobe rig. Talon personnel presented their JSA for subsurface investigation work and discussed potential hazards associated with working around the Geoprobe rig.

Talon utilized a truck-mounted Geoprobe rig to hydraulically push the core barrel to a proposed depth of 4 feet below ground surface (ft. bgs). Due to the presence of hard caliche in the subsurface, the Geoprobe rig only attained a depth of 2 ft bgs for all the 56 soil borings. Upon completion of the soil borings, the boreholes were backfilled with the remaining excess soil and bentonite filled up to ground surface and hydrated to provide an effective seal of the boreholes.

Soil samples were collected from 0 to 0.5 ft bgs and from 1.5 to 2.0 ft bgs at each of the 56 boring locations. The samples were placed into laboratory method appropriate containers and persevered on ice prior to delivery to Cardinal Labs in Hobbs, NM on April 5, 2023.

All of the 56 soil samples from the 0 to 0.5 ft bgs interval were analyzed for chlorides by SM4500Cl-B and pH. The deeper soil sample intervals were also submitted to the lab but placed on hold pending analytical results of the 0 to 0.5 ft bgs interval. Eight samples were selected from grid points 1, 7, 24, 25, 31, 32, 50 and 56 for BTEX and TPH analysis.

Following preliminary analyses of the shallow soil samples, all of the soil samples collected from the 1.5 to 2.0 ft bgs were tested for chloride analysis to confirm soil concentrations below the established New Mexico closure criteria for soils impacted by releases.

Additionally, during the investigation soil samples collected from each of the soil borings were field titrated by Talon to estimate soil chloride concentrations. Field titration analysis showed chloride concentrations ranging from 40 parts per million (ppm) to 280 ppm.

## **Analytical Results**

Summary tables of the analytical results are presented in Tables 1, 2 and 3. The analytical results were compared to the constituent soil concentrations shown in Table 1 of 19.15.29.12 NMAC for groundwater depths less than 50 ft. bgs. A proposed water well located less than ½ mile northwest of the spill area was completed by Oxy to a depth of 110 ft bgs in November 2022. No groundwater was encountered in this water well. A copy of the well record and log is included as an attachment to this report. The established restoration/reclamation criteria for chlorides is 600 mg/kg, 10 mg/kg for benzene, 50 mg/kg for total BTEX, and 100 mg/kg for TPH GRO+DRO.

Analysis of chlorides in soil for the 0 to 0.5 ft bgs depth interval reported an average concentration of 127 mg/kg with a maximum concentration of 448 mg/kg. Analysis of chlorides in soil for the 1.5 to 2.0 ft bgs depth interval reported an average concentration of 49 mg/kg with a maximum concentration of 144 mg/kg. All of the laboratory reported soil concentrations for chlorides were below the 600 mg/kg closure criteria for groundwater depths less than 50 ft bgs.

Analyses of the samples collected from the 0 to 0.5 ft bgs depth interval showed no detectable concentrations of BTEX. One soil sample collected from soil borings SB-56 showed a reportable TPH DRO concentration of 75 mg/kg, which is below the 100 mg/kg closure criteria for DRO TPH in Table 1 of 19.15.29.12 NMAC for groundwater depths less than 50 ft bgs. The remaining seven soil samples showed no reportable TPH concentrations in soil.

En-closure has completed the soil assessment of the August 7, 2022 hydrochloric acid spill. Based on the analytical results, reported concentrations of all constituents of concern were below the most stringent NMAC closure criteria for groundwater depths less than 50 ft bgs. In accordance with 19.15.29.12 NMAC, the soil assessment demonstrates that the initial response action mitigated the release and that the closure criteria have been met. As such NexTier should submit this report and request closure of this hydrochloric acid from the State of New Mexico.

Respectfully Submitted,

**Brad Alker** 

Project Manager, en-closure

Brad Alper

EC: Amy Barnhill Don Dunbar

Attachments:

Table 1 – Summary of Soil Analytical Results – Chlorides

Table 2 – Summary of Soil Analytical Results – pH

Table 3 - Summary of Soil Analytical Results - TPH and BTEX

Figure 1 – Chevron Sand Dunes 4 Site Map

Figure 2 – Chevron Sand Dunes 4 Aerial View of Hydrochloric Acid Spill

Figure 3 – Chevron Sand Dunes 4 Aerial View with Sampling Grid

Figure 4 – Chevron Sand Dunes 4 Sampling Grid with Chloride Concentrations

NM OCD Email Variance Request

NM OCD Email Site Assessment Approval

NM OCD Form C-141 Site Assessment/Characterization

Cardinal Laboratories Analytical Report

Photo Log

Water Well Record and Log

# **TABLES**

# TABLE 1 - SUMMARY OF SITE ASSESSMENT ANALYTICAL RESULTS CHLORIDES CHEVRON SAND DUNES PAD 4 LOVING, NEW MEXICO

	Depth (ft.bgs)	Chlorides
Soil Boring ID	Closure Criteria Level	600*
	Units	mg/kg
SB-1	0 - 0.5	48
SB-1	1.5 - 2.0	144
SB-2	0 - 0.5	96
SB-2	1.5 - 2.0	32
SB-3	0 - 0.5	96
SB-3	1.5 - 2.0	32
SB-4	0 - 0.5	144
SB-4	1.5 - 2.0	48
SB-5	0 - 0.5	160
SB-5	1.5 - 2.0	48
SB-6	0 - 0.5	96
SB-6	1.5 - 2.0	32
SB-7	0 - 0.5	48
SB-7	1.5 - 2.0	32
SB-8	0 - 0.5	80
SB-8	1.5 - 2.0	32
SB-9	0 - 0.5	128
SB-9	1.5 - 2.0	32
SB-10	0 - 0.5	128
		32
SB-10	1.5 - 2.0 0 - 0.5	448
SB-11	1.5 - 2.0	
SB-11		32
SB-12	0 - 0.5	112
SB-12	1.5 - 2.0	16
SB-13	0 - 0.5	64
SB-13	1.5 - 2.0	32
SB-14	0 - 0.5	128
SB-14	1.5 - 2.0	64
SB-15	0 - 0.5	48
SB-15	1.5 - 2.0	64
SB-16	0 - 0.5	144
SB-16	1.5 - 2.0	80
SB-17	0 - 0.5	64
SB-17	1.5 - 2.0	48
SB-18	0 - 0.5	96
SB-18	1.5 - 2.0	32
SB-19	0 - 0.5	96
SB-19	1.5 - 2.0	32
SB-20	0 - 0.5	80
SB-20	1.5 - 2.0	32
SB-21	0 - 0.5	48
SB-21	1.5 - 2.0	32
SB-22	0 - 0.5	112
SB-22	1.5 - 2.0	48
SB-23	0 - 0.5	160
SB-23	1.5 - 2.0	80
SB-24	0 - 0.5	112
SB-24	1.5 - 2.0	80
SB-25	0 - 0.5	256
SB-25	1.5 - 2.0	80
SB-26	0 - 0.5	320
SB-26	1.5 - 2.0	48
SB-27	0 - 0.5	48
SB-27	1.5 - 2.0	32
SB-28	0 - 0.5	64
SB-28	1.5 - 2.0	48
SB-29	0 - 0.5	80
SB-29	1.5 - 2.0	80
35 25	1.5 2.0	

# TABLE 1 - SUMMARY OF SITE ASSESSMENT ANALYTICAL RESULTS CHLORIDES CHEVRON SAND DUNES PAD 4 LOVING, NEW MEXICO

	Depth (ft.bgs)	Chlorides
Soil Boring ID	Closure Criteria Level	600*
	Units	mg/kg
SB-30	0 - 0.5	128
SB-30	1.5 - 2.0	48
SB-31	0 - 0.5	112
SB-31	1.5 - 2.0	80
SB-32	0 - 0.5	112
SB-32	1.5 - 2.0	16
SB-33	0 - 0.5	224
SB-33	1.5 - 2.0	<16
SB-34	0 - 0.5	64
SB-34	1.5 - 2.0	<16
SB-35	0 - 0.5	144
SB-35	1.5 - 2.0	32
SB-36	0 - 0.5	80
SB-36	1.5 - 2.0	48
SB-37	0 - 0.5	176
SB-37	1.5 - 2.0	48
SB-38	0 - 0.5	112
SB-38	1.5 - 2.0	64
SB-39	0 - 0.5	96
SB-39	1.5 - 2.0	64
SB-40	0 - 0.5	192
SB-40	1.5 - 2.0	32
SB-41	0 - 0.5	160
SB-41	1.5 - 2.0	64
SB-42	0 - 0.5	64
SB-42	1.5 - 2.0	32
SB-42	0 - 0.5	96
SB-43	1.5 - 2.0	80
SB-44	0 - 0.5	128
SB-44	1.5 - 2.0	48
SB-45	0 - 0.5	112
SB-45	1.5 - 2.0	64
SB-46	0 - 0.5	96
SB-46	1.5 - 2.0	48
SB-47	0 - 0.5	144
SB-47	1.5 - 2.0	48
SB-48	0 - 0.5	80
SB-48	1.5 - 2.0	48
SB-49	0 - 0.5	112
SB-49	1.5 - 2.0	48
SB-50	0 - 0.5	176
SB-50	1.5 - 2.0	64
SB-51	0 - 0.5	64
SB-51	1.5 - 2.0	48
SB-52	0 - 0.5	128
SB-52	1.5 - 2.0	48
SB-53	0 - 0.5	320
SB-53	1.5 - 2.0	64
SB-54	0 - 0.5	128
SB-54	1.5 - 2.0	32
SB-55	0 - 0.5	112
SB-55	1.5 - 2.0	48
SB-56	0 - 0.5	224
SB-56	1.5 - 2.0	48
25-20	2.0 2.0	70

ft bgs - feet below ground surface

 $<sup>\</sup>mbox{\ensuremath{^{*}}}$  - NMOCC constituent criteria level for soils impacted by a release for groundwater depths less than 50 feet

TABLE 2 - SUMMARY OF SITE ASSESSMENT ANALYTICAL RESULTS
PH
CHEVRON SAND DUNES PAD 4
LOVING, NEW MEXICO

Soil Boring ID	Depth (ft.bgs)	рН
SB-1	0 - 0.5	8.24
SB-2	0 - 0.5	8.39
SB-3	0 - 0.5	8.38
SB-4	0 - 0.5	8.43
SB-5	0 - 0.5	8.36
SB-6	0 - 0.5	8.60
SB-7	0 - 0.5	8.45
SB-8	0 - 0.5	8.50
SB-9	0 - 0.5	8.52
SB-10	0 - 0.5	8.21
SB-11	0 - 0.5	8.12
SB-12	0 - 0.5	8.19
SB-13	0 - 0.5	8.39
SB-14	0 - 0.5	8.27
SB-15	0 - 0.5	8.28
SB-16	0 - 0.5	8.35
SB-17	0 - 0.5	8.46
SB-18	0 - 0.5	8.13
SB-19	0 - 0.5	8.25
SB-20	0 - 0.5	8.55
SB-21	0 - 0.5	8.17
SB-22	0 - 0.5	8.26
SB-23	0 - 0.5	8.28
SB-24	0 - 0.5 0 - 0.5	8.30
SB-25		8.15
SB-26	0 - 0.5	8.05
SB-27	0 - 0.5	8.41
SB-28	0 - 0.5	8.48
SB-29	0 - 0.5	8.07
SB-30	0 - 0.5	8.22
SB-31	0 - 0.5	8.25
SB-32	0 - 0.5	8.45
SB-33	0 - 0.5	7.96
SB-34	0 - 0.5	8.21
SB-35	0 - 0.5	8.26
SB-36	0 - 0.5	8.07
SB-37	0 - 0.5	8.19
SB-38	0 - 0.5	7.95
SB-39	0 - 0.5	8.15
SB-40	0 - 0.5	7.98
SB-41	0 - 0.5	8.16
SB-42	0 - 0.5	8.26
SB-43	0 - 0.5	8.12
SB-44	0 - 0.5	8.16
SB-45	0 - 0.5	8.27
SB-46	0 - 0.5	8.27
SB-47	0 - 0.5	7.95
SB-48	0 - 0.5	8.33
SB-49	0 - 0.5	8.21
SB-50	0 - 0.5	8.19
SB-51	0 - 0.5	7.91
SB-52	0 - 0.5	8.32
SB-53	0 - 0.5	8.08
SB-54	0 - 0.5	8.24
SB-55	0 - 0.5	8.21
SB-56	0 - 0.5	8.28

ft bgs - feet below ground surface

# TABLE 3 - SUMMARY OF SITE ASSESSMENT ANALYTICAL RESULTS TPH AND BTEX CHEVRON SAND DUNES PAD 4 LOVING, NEW MEXICO

		Total Pe	troleum Hydro	carbons	BTEX				
		GRO	DRO	EXT DRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		C6-C10	C10 - C-28	C28 - C36					
	Closure Criteria Level	100*	100*	100*	10*				50*
Soil Boring	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ID	Depth (ft.bgs)								
SB-1	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-7	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-24	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-25	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-31	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-32	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-50	0 - 0.5	<10	<10	<10	<0.025	<0.025	<0.025	<0.075	<0.150
SB-56	0 - 0.5	<10	78.4	<10	<0.025	<0.025	<0.025	<0.075	<0.150

ft bgs - feet below ground surface

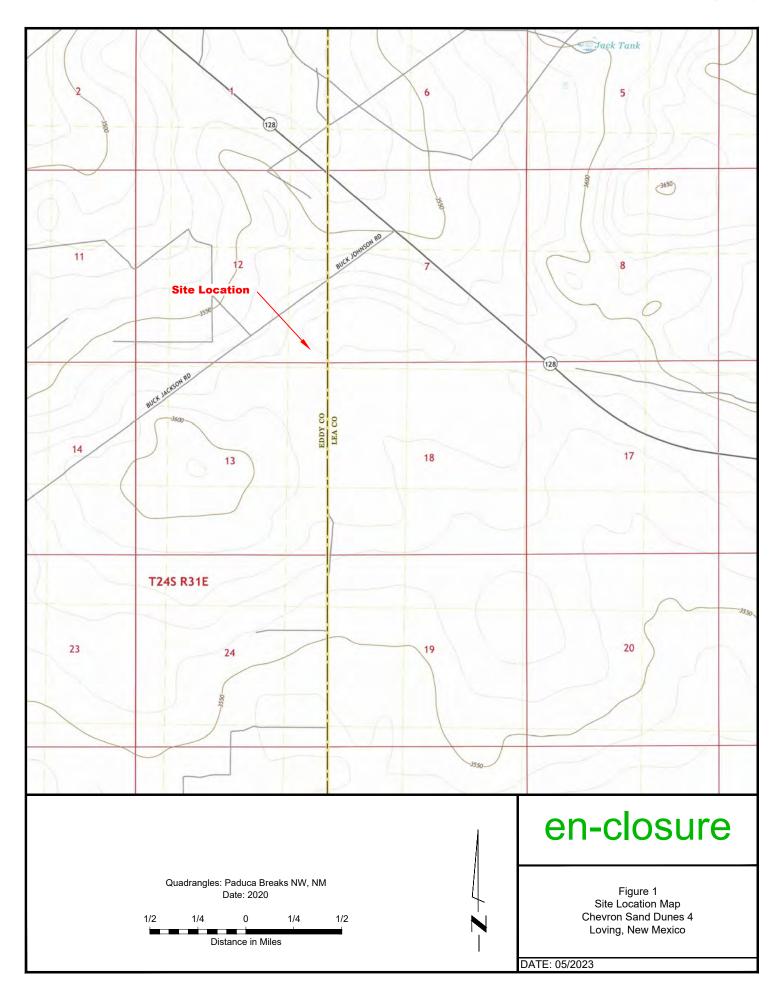
GRO - gasoline range organics

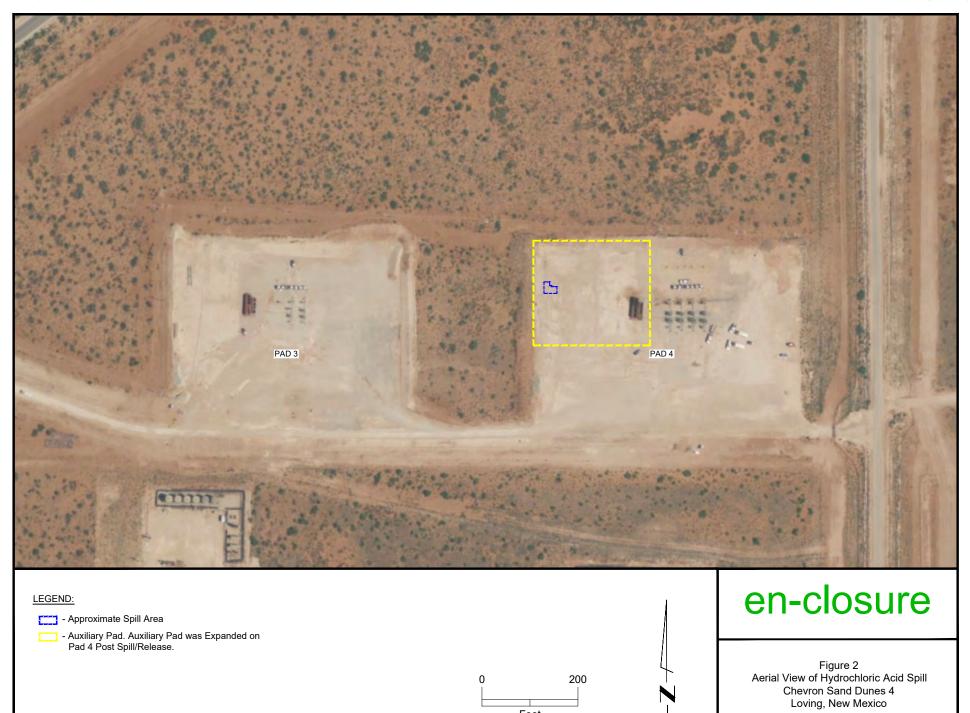
DRO - diesel range organics

<sup>\* -</sup> NMOCC constituent criteria level for soils impacted by a release for groundwater depths less than 50 feet.

<sup>&</sup>lt; 0.025 - the constituent was not detected above the laboratory reporting limit.

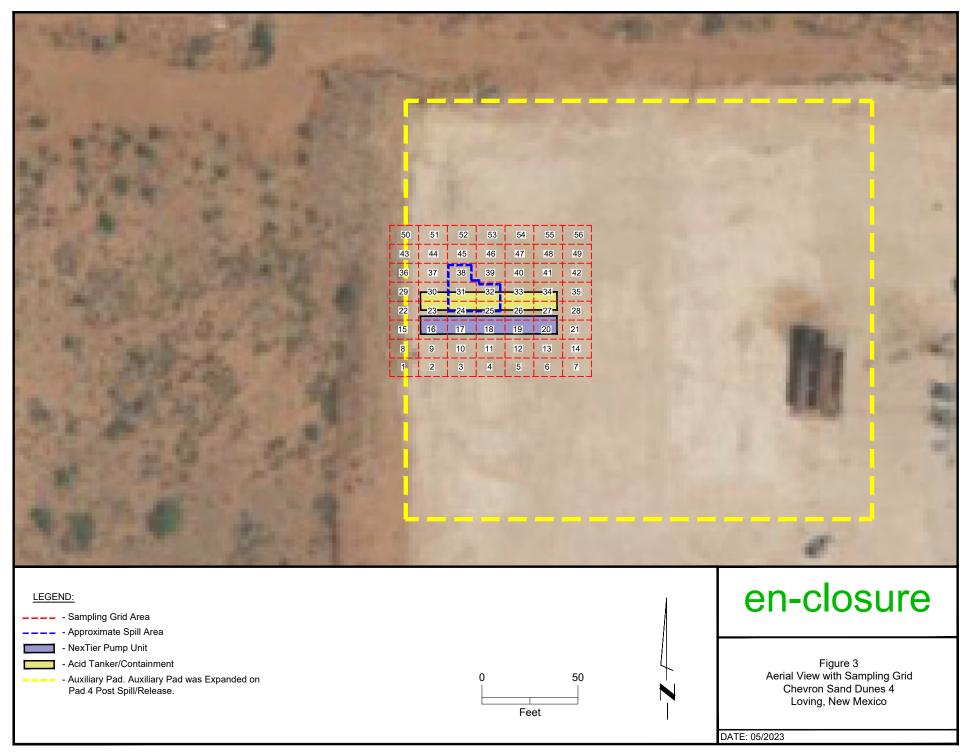
# **FIGURES**

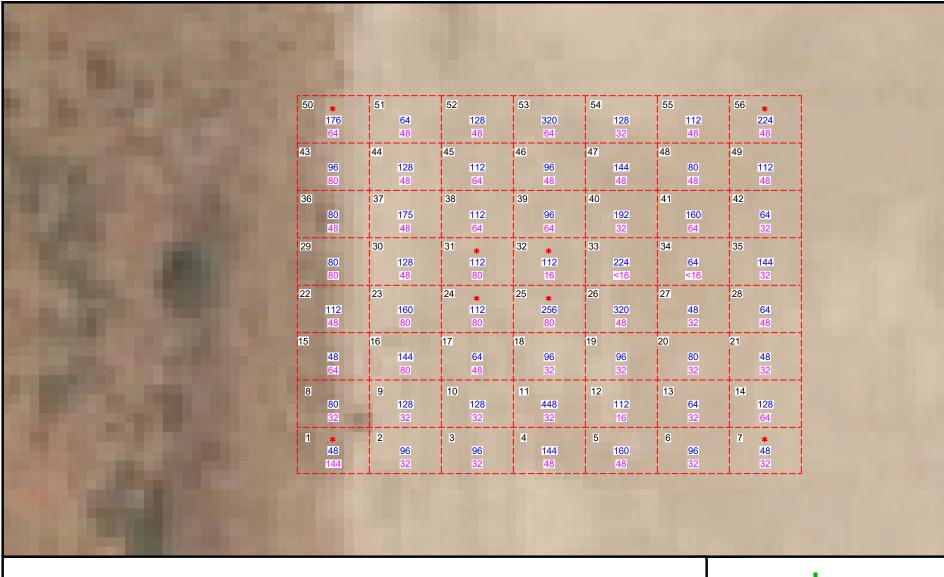




Feet

DATE: 05/2023





### LEGEND:

- --- Sampling Grid Area
- 20 Grid Number
- Chloride Concentration in mg/kg(0.0 to 0.5 FT BGS.) Average Concentration 127 mg/kg
- Chloride Concentration in mg/kg
   (1.5 to 2.0 FT BGS.) Average Concentration 49 mg/kg
- Samples Collected for BTEX and TPH Analysis

Chloride Closure Criteria - 600 mg/kg



# en-closure

Figure 4
Sampling Grid with Chloride Concentrations
Chevron Sand Dunes 4
Loving, New Mexico

DATE: 05/2023

# **PHOTO LOG**



Photo 1. View of vehicles and Geoprobe rig at the Chevron Sand Dunes 4 Auxiliary Pad



Photo 2. View to the northeast of the soil sampling grid prior to drilling activities



Photo 3. View to the southeast of the sampling grid area



Photo 4. View to east of northwest corner of the sampling grid



Photo 5. View of a Geoprobe sample core from 0 to 2 ft bgs



Photo 6. View of drilling contractor filling completed boreholes with bentonite



Photo 7. View of a borehole filled with bentonite



Photo 8. View to the west of boreholes filled with bentonite and hydrated to ensure an effective seal

## **NEXTIER-NM OCD EMAIL CORRRESPONDENCE**

From: "Harimon, Jocelyn, EMNRD" < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

**Date:** February 1, 2023 at 12:02:52 PM CST **To:** Don Dunbar <don.dunbar@en-closure.com>

**Cc:** "Barnhill, Amy" < <u>ABarnhill@chevron.com</u>>, Les Teague < <u>Les.Teague@nextierofs.com</u>>, "Bratcher,

Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Request for variance on sampling criteria - nAPP2222951347 Carlsbad School

**Lands Acid Release** 

Good morning Mr. Dunbar,

Thank you for your email.

As we must work within the framework of the Rule which states "the samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC or constituents from other applicable remediation standards" and requires all samples to be tested for Chlorides, TPH, BTEX, and Benzene, the OCD will require a few representative samples testing for all the constituents listed in Table I. Please submit the results of this sampling as an application for Remediation, through the permitting portal, with the corresponding C-141 pages as well as a written request for Variance based on the sampling results.

If you have any further questions please fee free to contact me.

Jocelyn Harimon

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Don Dunbar <don.dunbar@en-closure.com>

**Sent:** Monday, January 30, 2023 2:52 PM

To: Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Cc: Barnhill, Amy <<u>ABarnhill@chevron.com</u>>; Les Teague <<u>les.teague@nextierofs.com</u>>

Subject: [EXTERNAL] Request for variance on sampling criteria - nAPP2222951347 Carlsbad School Lands

Acid Release

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

Ms. Harimon: Per our conversation of January 30, 2023, NexTier would like to request a variance to the closure sample criteria for our incident nAPP2222951347. The release occurred on and was confined to

a newly constructed standby pad that was only used for staging well operations on a near by pad. The release occurred when a tanker containing virgin hydrochloric acid lost integrity and released acid into and around the containment pads. There was no hydrocarbon release. The submitted assessment plan is focused on the delineation and mitigation of the acid release – using pH and chlorides as the constituents of concern and involves over 50 borings with up to 3 samples per boring to provide vertical and horizontal delineation. We are requesting that agency allow us to limit the assessment to the constituents of concern, specifically pH and Chlorides and exclude the remaining constituent on the Table 1.

Please let me know if you have any questions about this request.

**Thanks** 

Don

Don Dunbar, P.G.
en-closure, Ilc
don.dunbar@en-closure.com
713-504-2873
P.O. Box 5336
San Angelo, TX 76902

----- Forwarded message -------**Date:** Jan 23, 2023 at 12:29 PM -0600

To: OCDOnline@state.nm.us

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2222951347, with the following conditions:

• When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. Please make sure all groundwater data is included in closure report summary. Soil samples will need to meet Table 1 Closure Criteria for proven depth to water determination. Closure samples should be representative of no more than 200 ft2, unless a variance has been approved. The samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH, defining the edge of the release.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jocelyn Harimon
Environmental Specialist
575-748-1283
Jocelyn.Harimon@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Received by OCD: 6/29/2023 7:43:50 AM
Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 24 of 18	85
Incident ID	nAPP2222951347	
District RP		
Facility ID		
Application ID		

## **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_ >100* (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ertical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> </ul>	s.

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

✓ Laboratory data including chain of custody

Received by OCD: 6/29/2023 7:43:50 AM
Form C-141 State of New Mexico
Page 4 Oil Conservation Division

 Page 25 of 185

 Incident ID
 nAPPP2222951347

 District RP
 Facility ID

Application ID

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

Printed Name: Amy Barnhill

Title: Water Advisor

Signature: This

Date: 10-19-22

email: ABarnhill@chevron.com

Telephone: 432-687-7108

**OCD Only** 

Received by: Jocelyn Harimon

Date: 10/24/2022

Don Dunbar PO Box 5336 San Angelo, TX 76902-5336 713-504-2873 don.dunbar@en-closure.com

## en-closure

September 26, 2022
Preliminary Site Assessment Plan
36% HCl impact on the Chevron Carlsbad School Lands (32.22567, -103.724320)
P, Section 12, T24S, R31E, Eddy County, New Mexico
Incident # nAPP2222951347

The following is a proposed site assessment plan to address the acid tanker leak on the Carlsbad School Land staging pad. The proposed assessment will provide vertical and horizontal delineation of the associated pH and Chlorides from the release to the shallow soil. The data from the assessment will be used to prepare a remediation plan that will be presented for approval.

**Release incident:** On Sunday, August 7, 2022, a contracted Acid Tanker parked in secondary containment on the above referenced staging pad developed a leak which resulted in the release of approximately 10 bbls/ 420 gal were released to the pad surface. The pad was newly constructed and does not appear on current maps.

The estimated volume is based on the tanker capacity of 107 bbls/ 4494 gals and post release volume of 38 bbls/ 1596 gals measured in the tanker. Approximately 59 bbls/ 2478 gal of the released material was captured in secondary containment and the remaining 10 bbls/ 420 gal were released to the pad surface. The spill was confined to the pad and near surface soils 0-0.5 feet below ground surface (bgs).

Emergency response measures were undertaken. The free liquids were recovered using a vacuum truck and placed into an empty chemical tanker. The impacted area was then neutralized to a pH of 6 and approximately 30 cubic yards of neutralized soil was excavated and placed in a roll off boxes for transport to J& L Landfarm (Permit #NM-01-0023). Photo documentation of the pH screening is attached as Figures 2 and 3. The bills of lading for the soil transport and disposal are attached.

**Assessment Plan:** The affected area appears to be approximately 30 x 30 feet based on the location of the containment pads of the Acid Tanker and NexTier Pump. NexTier proposes to assess an area of approximately 80 feet by 70 feet on 10 foot- grid spacings. This would provide assessment coverage extending 20 feet beyond the visible impact. The proposed sampling grid is attached.

The assessment will consist of a series of 56 geoprobe borings. Each boring will be installed in the center of each  $10 \times 10$  grid. Each boring will be advanced to a depth of 4 feet below ground surface. Soil samples will be collected continuously. Select intervals (0.0-0.5', 1.5-2.0') and 3.5-4.0' will be field screened and preserved for laboratory analysis.

Field screening: Field screening will include chlorides titration and field measurements of ph.

Laboratory Analysis: Laboratory Analysis will be performed at Cardinal Laboratories in Hobbs for Chlorides using method SM 4500CL-B and pH using method SW846-9040B. Sample analysis will be performed incrementally by depth interval. All the surface soil samples (0.0-0.5'bgs) will be analyzed on a 48 hour turn around. These results will be screened against OCD cleanup criteria for chlorides. If there are sampling points that exceed the clean-up criteria; their subsequent midlevel samples (1.5- 2.0' bgs) will be analyzed on a 48 hour turn around. If there are mid-level interval exceedances, the samples from 3.5 -4.0 from the locations with exceedances will be analyzed on a 48 hour turn around. This will NexTier to analyze the initial samples and any subsequent vertical and horizontal samples required to complete delineation within the laboratory method hold time.

**Screening and Cleanup Standards**: The spill was limited to the pad. There were no surface or groundwater receptors (as described in the C-141 Site Assessment form) observed in the area around the location. Water well data from the USGS, State Engineer, and from the closest assessment boring indicate that ground water is likely

deeper that 100 feet below grade, however, there is no current depth to groundwater data available within 1.25 miles of the site.

Chevron provided the following USGS well data.

Well	Lat	Long	DTW	Distance from Spill
USGS1	32°16'48.00"N	103°48'19.20"W	138'	6.04 miles
USGS2	32°16'11.90"N	103°45'1.20"W	250'	3.40 miles
USGS3	32°13'34.00"N	103°49'49.00"W	367'	6.16 miles
USGS4	32°13'14.10"N	103°48'23.40"W	56'	4.80 miles
USGS5	32°12'3.00"N	103°51'19.80"W	423"	7.80 miles
USGS6	32°10'38.20"N	103°46'53.00"W	474	4.66 Miles

Additionally ,Chevron provided data from a boring made in advance of construction of the Sand Dunes Frac Pond. The boring was advanced to 85' bgs but did not encounter groundwater in the boring.

TetraTech -

Sand Dunes Frac Pond

Boring B-1 32°13'39.54"N 103°45'15.52.00W >85' 1.8 miles

The following wells were located within the New Mexico Engineer's Office Database for the subject Township 24S and Range 31E and contained location and depth to water information.

C-2464	32.24775	103.75117	205	2.17 miles
C-4388	32.2064944	103.752775	868	1.86 miles
C-4576	32.20935	103.75111	850	2.08 miles

Screening will be initially performed using a Chlorides concentration of 600 mg/kg. If the initial analytical results show that there are a limited number of samples exceeding this standard, NexTier plans to perform targeted excavation around the exceedances. f there are a significant number of exceedances of the 600 mg/kg chlorides criteria, NexTier will install a boring and establish the depth to groundwater and then re-evaluate the clean-up standard.

A detailed remediation proposal which will include the field screening and analytical results presented in tables and on the grid maps will be submitted for approval upon completion of the assessment plan and determination of the target clean up goals.

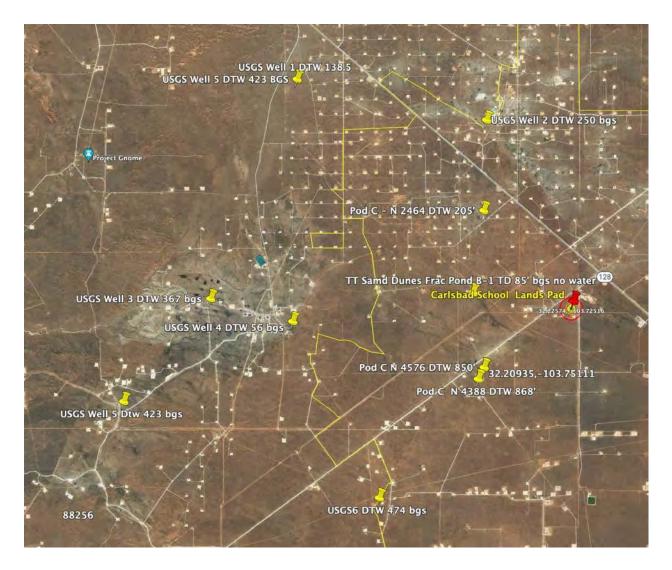
Please contact me at 713-504-2873 if you have any questions about this plan.

Don Dunbar, P.G. Manager

What is the shallowest depth to groundwater beneath the area affected by the release? Data from the State Engineer's office and an EDR Database Search show the closest water wells are within 1.5 to 2 miles and have a depth to water >100'	>100* (ft bgs)
Did this release impact groundwater or surface water?  Spill contained to the surface and near surface soil <0.5 bgs	Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Lateral extents of release confined to pad – no water course observed	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? No lake beds, sink holes, or playas observed within search radius	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? No occupied residence, school, hospital, institution, or church has been observed within the search radius	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?  No domestic freshwater wells identified within 500 feet of pad	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  No fresh water wells or springs were observed	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland? No wetlands observed within 300 of spill	
Are the lateral extents of the release overlying a subsurface mine?  Extent of spill is confined to pad	
Are the lateral extents of the release overlying an unstable area such as karst geology?  No surficial karsting observed	Yes No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
The extent of the spill is in an area described by FEMA as minimal Flood Hazard	│ │
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  The spill is confined to the pad	Yes No



Google Earth Image – at spill location. Top of image is north. Red Circle 1000' radius, Orange Circle 500' radius, Yellow Circle 300'radius and Green Circle is 200' Radius from spill coordinates.



Locations of Water Wells that have been identified and reported depths to water.



Figure 1 – Acid released from tanker rupture

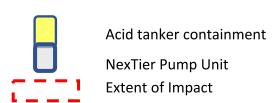


Figures 2 & 3 – Soil pH measurement from excavated material



## **Proposed Sample Grid**

50	51	52	53	54	55	56
43	44	45	4€	47	48	49
36	37	38	35	40	41	42
29	30	31	32	33	34	35
22	23	24	25	26	27	28
15	16	17	18	19	20	21
8	9	10	11	12	13	14
1	2	3	4	5	6	7



# **ANALYTICAL LABORATORY REPORTS**



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

April 20, 2023

DON DUNBAR

EN-CLOSURE, LLC

11822 BROOK MEADOWS

MEADOWSPLACE, TX 77477

RE: SAND DUNES 4

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 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)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Fax To: NA

Reported: 20-Apr-23 11:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - 1 (0-0.5')	H231593-01	Soil	03-Apr-23 11:30	05-Apr-23 14:05
SB - 1 (1.5-2.0')	H231593-02	Soil	03-Apr-23 11:30	05-Apr-23 14:05
SB - 2 (0-0.5')	H231593-03	Soil	03-Apr-23 11:40	05-Apr-23 14:05
SB - 2 (1.5-2.0')	H231593-04	Soil	03-Apr-23 11:40	05-Apr-23 14:05
SB - 3 (0-0.5')	H231593-05	Soil	03-Apr-23 13:00	05-Apr-23 14:05
SB - 3 (1.5-2.0')	H231593-06	Soil	03-Apr-23 13:00	05-Apr-23 14:05
SB - 4 (0-0.5')	H231593-07	Soil	03-Apr-23 13:10	05-Apr-23 14:05
SB - 4 (1.5-2.0')	H231593-08	Soil	03-Apr-23 13:10	05-Apr-23 14:05
SB - 5 (0-0.5')	H231593-09	Soil	03-Apr-23 13:20	05-Apr-23 14:05
SB - 5 (1.5-2.0')	H231593-10	Soil	03-Apr-23 13:20	05-Apr-23 14:05
SB - 6 (0-0.5')	H231593-11	Soil	03-Apr-23 13:30	05-Apr-23 14:05
SB - 6 (1.5-2.0')	H231593-12	Soil	03-Apr-23 13:30	05-Apr-23 14:05
SB - 7 (0-0.5')	H231593-13	Soil	03-Apr-23 13:35	05-Apr-23 14:05
SB - 7 (1.5-2.0')	H231593-14	Soil	03-Apr-23 13:35	05-Apr-23 14:05
SB - 8 (0-0.5')	H231593-15	Soil	03-Apr-23 13:45	05-Apr-23 14:05
SB - 8 (1.5-2.0')	H231593-16	Soil	03-Apr-23 13:45	05-Apr-23 14:05
SB - 9 (0-0.5')	H231593-17	Soil	03-Apr-23 13:50	05-Apr-23 14:05
SB - 9 (1.5-2.0')	H231593-18	Soil	03-Apr-23 13:50	05-Apr-23 14:05
SB - 10 (0-0.5')	H231593-19	Soil	03-Apr-23 13:55	05-Apr-23 14:05
SB - 10 (1.5-2.0')	H231593-20	Soil	03-Apr-23 13:55	05-Apr-23 14:05
SB - 11 (0-0.5')	H231593-21	Soil	03-Apr-23 14:00	05-Apr-23 14:05
SB - 11 (1.5-2.0')	H231593-22	Soil	03-Apr-23 14:00	05-Apr-23 14:05
SB - 12 (0-0.5')	H231593-23	Soil	03-Apr-23 14:02	05-Apr-23 14:05
SB - 12 (1.5-2.0')	H231593-24	Soil	03-Apr-23 14:02	05-Apr-23 14:05
SB - 13 (0-0.5')	H231593-25	Soil	03-Apr-23 14:06	05-Apr-23 14:05
SB - 13 (1.5-2.0')	H231593-26	Soil	03-Apr-23 14:06	05-Apr-23 14:05
SB - 14 (0-0.5')	H231593-27	Soil	03-Apr-23 14:20	05-Apr-23 14:05

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477		Project: Project Number: Project Manager: Fax To:	DON DUNBAR	Reported: 20-Apr-23 11:37
SB - 14 (1.5-2.0')	H231593-28	Soil	03-Apr-23 14:20	05-Apr-23 14:05
SB - 15 (0-0.5')	H231593-29	Soil	03-Apr-23 14:25	05-Apr-23 14:05
SB - 15 (1.5-2.0')	H231593-30	Soil	03-Apr-23 14:25	05-Apr-23 14:05
SB - 16 (0-0.5')	H231593-31	Soil	03-Apr-23 14:30	05-Apr-23 14:05
SB - 16 (1.5-2.0')	H231593-32	Soil	03-Apr-23 14:30	05-Apr-23 14:05
SB - 17 (0-0.5')	H231593-33	Soil	03-Apr-23 14:35	05-Apr-23 14:05
SB - 17 (1.5-2.0')	H231593-34	Soil	03-Apr-23 14:40	05-Apr-23 14:05
SB - 18 (0-0.5')	H231593-35	Soil	03-Apr-23 14:40	05-Apr-23 14:05
SB - 18 (1.5-2.0')	H231593-36	Soil	03-Apr-23 14:45	05-Apr-23 14:05
SB - 19 (0-0.5')	H231593-37	Soil	03-Apr-23 14:50	05-Apr-23 14:05
SB - 19 (1.5-2.0')	H231593-38	Soil	03-Apr-23 14:50	05-Apr-23 14:05
SB - 20 (0-0.5')	H231593-39	Soil	03-Apr-23 14:55	05-Apr-23 14:05
SB - 20 (1.5-2.0')	H231593-40	Soil	03-Apr-23 14:55	05-Apr-23 14:05
SB - 21 (0-0.5')	H231593-41	Soil	03-Apr-23 14:55	05-Apr-23 14:05
SB - 21 (1.5-2.0')	H231593-42	Soil	03-Apr-23 14:55	05-Apr-23 14:05
SB - 22 (0-0.5')	H231593-43	Soil	03-Apr-23 15:10	05-Apr-23 14:05
SB - 22 (1.5-2.0')	H231593-44	Soil	03-Apr-23 15:10	05-Apr-23 14:05
SB - 23 (0-0.5')	H231593-45	Soil	03-Apr-23 15:15	05-Apr-23 14:05
SB - 23 (1.5-2.0')	H231593-46	Soil	03-Apr-23 15:15	05-Apr-23 14:05
SB - 24 (0-0.5')	H231593-47	Soil	03-Apr-23 15:20	05-Apr-23 14:05
SB - 24 (1.5-2.0')	H231593-48	Soil	03-Apr-23 15:20	05-Apr-23 14:05
SB - 25 (0-0.5')	H231593-49	Soil	03-Apr-23 15:30	05-Apr-23 14:05
SB - 25 (1.5-2.0')	H231593-50	Soil	03-Apr-23 15:30	05-Apr-23 14:05
SB - 26 (0-0.5')	H231593-51	Soil	03-Apr-23 15:35	05-Apr-23 14:05
SB - 26 (1.5-2.0')	H231593-52	Soil	03-Apr-23 15:35	05-Apr-23 14:05
SB - 27 (0-0.5')	H231593-53	Soil	03-Apr-23 15:38	05-Apr-23 14:05
SB - 27 (1.5-2.0')	H231593-54	Soil	03-Apr-23 15:38	05-Apr-23 14:05
SB - 28 (0-0.5')	H231593-55	Soil	03-Apr-23 15:45	05-Apr-23 14:05
SB - 28 (1.5-2.0')	H231593-56	Soil	03-Apr-23 15:45	05-Apr-23 14:05
SB - 29 (0-0.5')	H231593-57	Soil	04-Apr-23 08:35	05-Apr-23 14:05

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Analytical Results For:**

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477		Project: Project Number: Project Manager: Fax To:	DON DUNBAR	Reported: 20-Apr-23 11:37
SB - 29 (1.5-2.0')	H231593-58	Soil	04-Apr-23 08:35	05-Apr-23 14:05
SB - 30 (0-0.5')	H231593-59	Soil	04-Apr-23 08:40	05-Apr-23 14:05
SB - 30 (1.5-2.0')	H231593-60	Soil	04-Apr-23 08:40	05-Apr-23 14:05

04/20/23 - Client added chlorides (see COC). This is the revised report and will replace the one sent on 04/11/23.

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 77



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

# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

GIVEN 20-Apr-23 11:37

Fax To: NA

SB - 1 (0-0.5') H231593-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.24		0.100	pH Units	1	3040639	AC	11-Apr-23	9045	
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctane			98.0 %	48.2-	134	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1-	148	3040620	MS	10-Apr-23	8015B	
Volatile Organic Compounds by	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	QR-03
Toluene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Surrogate: Dibromofluoromethane			90.3 %	86.7-	-111	3040606	MS	10-Apr-23	8260B	
Surrogate: Toluene-d8			96.7 %	89.3-	110	3040606	MS	10-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			99.8 %	88.2-	108	3040606	MS	10-Apr-23	8260B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

**Inorganic Compounds** 

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

20-Apr-23 11:37

19-Apr-23

Reported:

4500-Cl-B

Fax To: NA

SB - 1 (1.5-2.0') H231593-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ories					

mg/kg

3041955

AC

16.0

Cardinal Laboratories \*=Accredited Analyte

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20-Apr-23 11:37



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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 2 (0-0.5') H231593-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	96.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B					
pH*	8.39		0.100	pH Units	1	3040639	AC	11-Apr-23	9045					
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045					

Cardinal Laboratories \*=Accredited Analyte

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32.0

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 2 (1.5-2.0') H231593-04 (Soil)

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

mg/kg

16.0

3041955

AC

19-Apr-23

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20-Apr-23 11:37



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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 3 (0-0.5') H231593-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	96.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B					
pH*	8.38		0.100	pH Units	1	3040639	AC	11-Apr-23	9045					
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045					

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20-Apr-23 11:37



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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Manager: DON DUNBAR Fax To: NA

SB - 3 (1.5-2.0')

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

H231593-06 (Soil)

#### **Cardinal Laboratories**

 Inorganic Compounds

 Chloride
 32.0
 16.0
 mg/kg
 4
 3041956
 AC
 19-Apr-23
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 4 (0-0.5') H231593-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Cardinal Laboratories													
Inorganic Compounds													
Chloride	144		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B				
pH*	8.43		0.100	pH Units	1	3040639	AC	11-Apr-23	9045				
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045				

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 4 (1.5-2.0') H231593-08 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

 Inorganic Compounds

 Chloride
 48.0
 16.0
 mg/kg
 4
 3041956
 AC
 19-Apr-23
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 5 (0-0.5') H231593-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Cardinal Laboratories													
Inorganic Compounds													
Chloride	160		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B				
pH*	8.36		0.100	pH Units	1	3040639	AC	11-Apr-23	9045				
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045				

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48.0

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

**Inorganic Compounds** 

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 5 (1.5-2.0') H231593-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laborato	ries					

mg/kg

3041956

AC

19-Apr-23

16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 6 (0-0.5') H231593-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Cardinal Laboratories													
Inorganic Compounds													
Chloride	96.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B				
pH*	8.60		0.100	pH Units	1	3040639	AC	11-Apr-23	9045				
Temperature °C	18.6			pH Units	1	3040639	AC	11-Apr-23	9045				

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 6 (1.5-2.0') H231593-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					

 Inorganic Compounds

 Chloride
 32.0
 16.0
 mg/kg
 4
 3041956
 AC
 19-Apr-23
 4500-Cl-B

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20-Apr-23 11:37



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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

**SB - 7 (0-0.5')** H231593-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.45		0.100	pH Units	1	3040639	AC	11-Apr-23	9045	
Temperature °C	18.6			pH Units	1	3040639	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctane			99.0 %	48.2-	-134	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1-	-148	3040620	MS	10-Apr-23	8015B	
Volatile Organic Compounds b	oy EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Surrogate: Dibromofluoromethane			95.4 %	86.7	-111	3040606	MS	10-Apr-23	8260B	
Surrogate: Toluene-d8			99.9 %	89.3-	-110	3040606	MS	10-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			95.4 %	88.2-	-108	3040606	MS	10-Apr-23	8260B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



32.0

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 7 (1.5-2.0') H231593-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										

mg/kg

3041956

AC

19-Apr-23

16.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 8 (0-0.5') H231593-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.50		0.100	pH Units	1	3040639	AC	11-Apr-23	9045	
Temperature °C	18.6			pH Units	1	3040639	AC	11-Apr-23	9045	

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4500-Cl-B

20-Apr-23 11:37



32.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 8 (1.5-2.0') H231593-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										

mg/kg

16.0

3041956

AC

19-Apr-23

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 9 (0-0.5') H231593-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.52		0.100	pH Units	1	3040639	AC	11-Apr-23	9045	
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

DNE GIVEN 20-Apr-23 11:37 DN DUNBAR

Fax To: NA

SB - 9 (1.5-2.0') H231593-18 (Soil)

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

 Chloride
 32.0
 16.0
 mg/kg
 4
 3041956
 AC
 19-Apr-23
 4500-Cl-B

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 10 (0-0.5') H231593-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.21		0.100	pH Units	1	3040639	AC	11-Apr-23	9045	
Temperature °C	18.5			pH Units	1	3040639	AC	11-Apr-23	9045	
=			0.100	•	1 1			•		

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20-Apr-23 11:37



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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 10 (1.5-2.0') H231593-20 (Soil)

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

**Inorganic Compounds** 16.0 3041956 AC 19-Apr-23 4500-Cl-B Chloride 32.0 mg/kg

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 11 (0-0.5') H231593-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	448		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.12		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.5			pH Units	1	3040640	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 11 (1.5-2.0') H231593-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	32.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B		

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 12 (0-0.5') H231593-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.19		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.5			pH Units	1	3040640	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 12 (1.5-2.0') H231593-24 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
I	norganic Compounds										
C	Chloride	16.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 13 (0-0.5') H231593-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.39		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.4			pH Units	1	3040640	AC	11-Apr-23	9045	

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 13 (1.5-2.0') H231593-26 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborato	ories					
]	Inorganic Compounds										
(	Chloride	32.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 14 (0-0.5') H231593-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.27		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.4			pH Units	1	3040640	AC	11-Apr-23	9045	

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64.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 14 (1.5-2.0') H231593-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardin	al Laborat	ories					

mg/kg

16.0

3041956

AC

19-Apr-23

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 15 (0-0.5') H231593-29 (Soil)

Analyte Result MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardi	inal Laborato	ories					
Inorganic Compounds							
<b>Chloride 48.0</b> 16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
<b>pH* 8.28</b> 0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C 18.4	pH Units	1	3040640	AC	11-Apr-23	9045	

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 15 (1.5-2.0') H231593-30 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
Inorganic Compounds											
	Chloride	64.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B	

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 16 (0-0.5') H231593-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.35		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.4			pH Units	1	3040640	AC	11-Apr-23	9045	

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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 16 (1.5-2.0') H231593-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	80.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B		

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20-Apr-23 11:37



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# Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 17 (0-0.5') H231593-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.46		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.3			pH Units	1	3040640	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

20-Apr-23 11:37

Fax To: NA

SB - 17 (1.5-2.0') H231593-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 18 (0-0.5') H231593-35 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardinal	Laborato	ries					
<u>I</u>	norganic Compounds										
(	Chloride	96.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
ŗ	оН*	8.13		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
]	Γemperature °C	18.3			pH Units	1	3040640	AC	11-Apr-23	9045	

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32.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 18 (1.5-2.0') H231593-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										

mg/kg

3041956

AC

19-Apr-23

16.0

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Reported:

20-Apr-23 11:37



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 19 (0-0.5') H231593-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3041008	AC	10-Apr-23	4500-Cl-B	
pH*	8.25		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.2			pH Units	1	3040640	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 19 (1.5-2.0') H231593-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 20 (0-0.5') H231593-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	QM-07
pH*	8.55		0.100	pH Units	1	3040640	AC	11-Apr-23	9045	
Temperature °C	18.2			pH Units	1	3040640	AC	11-Apr-23	9045	

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32.0

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19-Apr-23

### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 20 (1.5-2.0') H231593-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
<b>Inorganic Compounds</b>											

mg/kg

16.0

3041956

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Project Manager: DON DUNBAR Fax To: NA

Reported: 20-Apr-23 11:37

SB - 21 (0-0.5') H231593-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.17		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.7			pH Units	1	3040641	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 21 (1.5-2.0') H231593-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	3041956	AC	19-Apr-23	4500-Cl-B	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

ger: DON DUNBAR

Fax To: NA

SB - 22 (0-0.5') H231593-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.26		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.7			pH Units	1	3040641	AC	11-Apr-23	9045	

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48.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 22 (1.5-2.0') H231593-44 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										

mg/kg

3041956

AC

19-Apr-23

16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 23 (0-0.5') H231593-45 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.28		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.7			pH Units	1	3040641	AC	11-Apr-23	9045	

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80.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 23 (1.5-2.0') H231593-46 (Soil)

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

mg/kg

3041957

AC

19-Apr-23

16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 24 (0-0.5') H231593-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborato	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.30		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.6			pH Units	1	3040641	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctane			97.1 %	48.2-	134	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			99.7 %	49.1-	148	3040620	MS	10-Apr-23	8015B	
Volatile Organic Compounds I	by EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Surrogate: Dibromofluoromethane			92.8 %	86.7-	111	3040606	MS	10-Apr-23	8260B	
Surrogate: Toluene-d8			99.6 %	89.3-	110	3040606	MS	10-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			97.2 %	88.2-	108	3040606	MS	10-Apr-23	8260B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



80.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 24 (1.5-2.0') H231593-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Cardinal Laboratories													
Inorganic Compounds													
Chloride	80.0		16.0	mg/kg	4	3041957	AC	19-Apr-23	4500-Cl-B				

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Fax To: NA

Reported: 20-Apr-23 11:37

SB - 25 (0-0.5') H231593-49 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.15		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040641	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctane			80.8 %	48.2-	134	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			80.5 %	49.1-	148	3040620	MS	10-Apr-23	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Surrogate: Dibromofluoromethane			96.3 %	86.7-	-111	3040606	MS	10-Apr-23	8260B	
Surrogate: Toluene-d8			95.4 %	89.3-	110	3040606	MS	10-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			103 %	88.2-	108	3040606	MS	10-Apr-23	8260B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 25 (1.5-2.0') H231593-50 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			C II	11 1 4	•					

### **Cardinal Laboratories**

**Inorganic Compounds** 3041957 AC 19-Apr-23 4500-Cl-B Chloride 80.0 16.0 mg/kg

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 26 (0-0.5') H231593-51 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.05		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040641	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 26 (1.5-2.0') H231593-52 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Cardinal Laboratories													
Inorganic Compounds													
Chloride	48.0		16.0	mg/kg	4	3041957	AC	19-Apr-23	4500-Cl-B				

Cardinal Laboratories \*=Accredited Analyte

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Reported:

20-Apr-23 11:37



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

### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 27 (0-0.5') H231593-53 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.41		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040641	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 27 (1.5-2.0') H231593-54 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
Cardinal Laboratories													
Inorganic Compounds													
Chloride	32.0		16.0	mg/kg	4	3041957	AC	19-Apr-23	4500-Cl-B				

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Reported:

20-Apr-23 11:37



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 28 (0-0.5') H231593-55 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.48		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.7			pH Units	1	3040641	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 28 (1.5-2.0') H231593-56 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	l Laborat	ories					
]	Inorganic Compounds										
(	Chloride	48.0		16.0	mg/kg	4	3041957	AC	19-Apr-23	4500-Cl-B	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 29 (0-0.5') H231593-57 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.07		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.6			pH Units	1	3040641	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

SB - 29 (1.5-2.0') H231593-58 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					

 Inorganic Compounds

 Chloride
 80.0
 16.0
 mg/kg
 4
 3041957
 AC
 19-Apr-23
 4500-Cl-B

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Reported:

20-Apr-23 11:37



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Project Manager: DON DUNBAR Fax To: NA

D 20 (0.05t)

SB - 30 (0-0.5') H231593-59 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.22		0.100	pH Units	1	3040641	AC	11-Apr-23	9045	
Temperature °C	19.6			pH Units	1	3040641	AC	11-Apr-23	9045	

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48.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

4500-Cl-B

Fax To: NA

SB - 30 (1.5-2.0') H231593-60 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardin	al Laborat	ories					

mg/kg

16.0

3041957

AC

19-Apr-23

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

### **Inorganic Compounds - Quality Control**

Fax To: NA

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3040639 - General Prep - Wet Chem										
LCS (3040639-BS1)				Prepared: (	)6-Apr-23 A	Analyzed: 1	11-Apr-23			
Н	7.10		pH Units	7.00		101	90-110			
Duplicate (3040639-DUP1)	Sou	rce: H231593	-01	Prepared: (	)6-Apr-23 A	Analyzed: 1	11-Apr-23			
pH	8.31	0.100	pH Units		8.24			0.846	20	
Temperature °C	18.5		pH Units		18.5			0.00	200	
Batch 3040640 - General Prep - Wet Chem										
LCS (3040640-BS1)				Prepared: (	)6-Apr-23 A	Analyzed: 1	11-Apr-23			
рН	7.12		pH Units	7.00		102	90-110			
Duplicate (3040640-DUP1)	Sou	rce: H231593	-21	Prepared: (	)6-Apr-23 A	Analyzed: 1	11-Apr-23			
pH	8.11	0.100	pH Units		8.12			0.123	20	
Temperature °C	18.5		pH Units		18.5			0.00	200	
Batch 3040641 - General Prep - Wet Chem										
LCS (3040641-BS1)				Prepared: (	)6-Apr-23 A	Analyzed: 1	11-Apr-23			
РН	7.08		pH Units	7.00		101	90-110			
Duplicate (3040641-DUP1)	Sou	rce: H231593	-41	Prepared: (	)6-Apr-23 A	Analyzed: 1	11-Apr-23			
рН	8.17	0.100	pH Units		8.17			0.00	20	
Temperature °C	19.7		pH Units		19.7			0.00	200	
Batch 3041008 - 1:4 DI Water										
Blank (3041008-BLK1)				Prepared &	Analyzed:	10-Apr-23	3			
Chloride	ND	16.0	mg/kg							

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### **Analytical Results For:**

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

Fax To: NA

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3041008 - 1:4 DI Water										
LCS (3041008-BS1)				Prepared &	Analyzed:	10-Apr-23				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3041008-BSD1)				Prepared &	Analyzed:	10-Apr-23				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 3041012 - 1:4 DI Water										
Blank (3041012-BLK1)				Prepared &	Analyzed:	10-Apr-23				
Chloride	ND	16.0	mg/kg							
LCS (3041012-BS1)				Prepared &	: Analyzed:	10-Apr-23				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3041012-BSD1)				Prepared &	: Analyzed:	10-Apr-23				
Chloride	400	16.0	mg/kg	400		100	80-120	7.69	20	
Batch 3041955 - 1:4 DI Water										
Blank (3041955-BLK1)				Prepared &	: Analyzed:	19-Apr-23				
Chloride	ND	16.0	mg/kg							
LCS (3041955-BS1)				Prepared &	: Analyzed:	19-Apr-23				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3041955-BSD1)				Prepared &	: Analyzed:	19-Apr-23				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	·

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%PEC

### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

DDD

Fax To: NA

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

Snika

RPD Limit	Notes
3.77 20	
3.92 20	
	.92 20

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%REC

### **Analytical Results For:**

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

RPD

Fax To: NA

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3040620 - General Prep - Organics										
Blank (3040620-BLK1)				Prepared: (	)6-Apr-23 A	analyzed: 1	0-Apr-23			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0		82.7	48.2-134			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.1	49.1-148			
LCS (3040620-BS1)				Prepared: (	)6-Apr-23 A	analyzed: 1	0-Apr-23			
GRO C6-C10	191	10.0	mg/kg	200		95.3	78.5-124			
DRO >C10-C28	192	10.0	mg/kg	200		95.8	72.5-126			
Total TPH C6-C28	382	10.0	mg/kg	400		95.6	77.6-123			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.3	48.2-134			
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		94.9	49.1-148			
LCS Dup (3040620-BSD1)				Prepared: (	)6-Apr-23 A	analyzed: 1	0-Apr-23			
GRO C6-C10	189	10.0	mg/kg	200		94.5	78.5-124	0.900	17.7	
DRO >C10-C28	186	10.0	mg/kg	200		93.2	72.5-126	2.70	21	
Total TPH C6-C28	375	10.0	mg/kg	400		93.9	77.6-123	1.80	18.5	
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	48.2-134			
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.5	49.1-148			

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%REC

### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

RPD

Fax To: NA

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

### **Cardinal Laboratories**

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3040606 - Volatiles										
Blank (3040606-BLK1)				Prepared: (	)6-Apr-23 A	nalyzed: 1	0-Apr-23			
Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.17		mg/kg	1.25		93.4	86.7-111			
Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.4	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		99.9	88.2-108			
LCS (3040606-BS1)				Prepared: (	)6-Apr-23 A	nalyzed: 1	0-Apr-23			
Benzene	0.479	0.025	mg/kg	0.500		95.8	70.2-121			
Toluene	0.473	0.025	mg/kg	0.500		94.6	76.9-126			
Ethylbenzene	0.475	0.025	mg/kg	0.500		94.9	79.1-124			
m+p - Xylene	0.985	0.050	mg/kg	1.00		98.5	80.8-134			
Total Xylenes	1.47	0.075	mg/kg	1.50		98.1	80.5-132			
o-Xylene	0.486	0.025	mg/kg	0.500		97.3	79-130			
Surrogate: Dibromofluoromethane	1.21		mg/kg	1.25		97.0	86.7-111			
Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.5	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.28		mg/kg	1.25		102	88.2-108			
LCS Dup (3040606-BSD1)				Prepared: (	)6-Apr-23 A	nalyzed: 1	0-Apr-23			
Benzene	0.460	0.025	mg/kg	0.500		91.9	70.2-121	4.15	11.1	
Toluene	0.471	0.025	mg/kg	0.500		94.2	76.9-126	0.453	12.2	
Ethylbenzene	0.454	0.025	mg/kg	0.500		90.9	79.1-124	4.36	12.3	
m+p - Xylene	0.951	0.050	mg/kg	1.00		95.1	80.8-134	3.53	11.5	
o-Xylene	0.469	0.025	mg/kg	0.500		93.8	79-130	3.58	12.3	
Total Xylenes	1.42	0.075	mg/kg	1.50		94.7	80.5-132	3.55	11.7	
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		95.7	86.7-111			
Surrogate: Toluene-d8	1.29		mg/kg	1.25		103	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.27		mg/kg	1.25		102	88.2-108			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### **Analytical Results For:**

Fax To: NA

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 20-Apr-23 11:37

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Celey D. Keene, Lab Director/Quality Manager

Page 70 of 77

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ND Analyte NOT DETECTED at or above the reporting limit

**RPD** Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keene, Lab Director/Quality Manager

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Corrected Temp. °C

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: service. In no event shall Cardinal be liable analyses. All claims Sampler - UPS - Bus - Other: PLEASE NOTE: Lia! Delivered By: (Circle One) Sampler Name: Project Location: Project Name: Phone #: (7)3) 504 -2873 City: TAN ANGELO Project Manager: popul Company Name: Address: Lab I.D. FOR LAB USE ONLY roof Alher PO BOX 5336 53-5 53-5 SB-4 53-4 53-3 58-2 58-2 B-3 BRAD AND PUNES EN-CLOSURE, LLC LOVING, Sample I.D. DUNBAR (0-0.5 1.5-2.0 0-0.5 15.00 0-0.5 1.5-2.0 ALKER 1.5-21 1.5-2.0 1 5-2.0" 0.5 5.3 Corrected Temp. Observed Temp. °C Time: Project Owner: Fax #: State: X င္ပိ CU 3.9 Received By: Received By: (G)RAB OR (C)OMP Zip: # CONTAINERS 76902 GROUNDWATER inless made in writing and re Cool Intact

Yes Yes

No No Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE loss of use, or loss of profits OTHER P.O. #: Fax #: Phone #: (713)504 -2873 State: TX City: SAN ANGELO Attn: DON DUNBAR Company: Address: PO Box 5336 ed by Cardinal within 30 days after com ACID/BASE PRESERV CHECKED BY ICE / COOL (Initials) OTHER MA BILL TO Zip: 76902 EN-CLOSURIE OH/03/23 incurred by client, its subsidiaries DATE SAMPLING Turnaround Time:

SDAY TAT

Thermometer ID #113 REMARKS: All Results are emailed. Please provide Email address: Correction Factor -0.6°C Verbal Result: 1320 1310 1310 1300 1300 1140 1140 1320 1130 1130 TIME PLEAS & DON. DUNBARQ EN-CLOSURE, COM tion of the applicable 0403 □ Yes PROVIDE 4500 CL-B Standard Rush 0 O No 35 0 8260 20 HO 3 8015 E PP Add'l Phone #: 3 ANALYSIS Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp. 0 PEND REQUEST DNG. Monthe cô SAMPLEREGULT

0

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Brack Allen Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Damages, Ca analyses. All claims including those for neg service. In no event shall Cardinal be liable		50	0	6	S S	Ţ	2ú	D=	Chara	5000	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:(7)3	City: 7AN	Address: P	Project Manager:	Company Name:
licle One) Bus - Other:		her	s arising out of or related to the perform d By:	bility and Dameges. Cardinal's liability and client's exclus including those for negligence and any other cause wha shall Cardinal be liable for incidental or consequental da	3-10(1.5	06-	016	118	3	-7 (	77	100	58-10-6		Sample I.D.		: BILAD ALKER	m: LOVI	SAND PUN		1504-2873	ANGELO	Po Box 5336	er: por DUNBAR	18: EN-CLOSURE
Observed Temp. °C Corrected Temp. °C	Time:	Time: 65	mance of services hereunder by C.  Date:	the rem	(-2.0')	-0.5')	-0.5)	5-2.0')	(,5')	.5-2.0')	0-0.5)	301)	(1)		le I.D.		ER	N.M.	h sa.	Project Owner:	Fax#:	State: TX	0	BAR	ure, LLC
でいい		Rece	Rece	edy for any claim an shall be deemed we including without lim	X	XX	X	X	X	7	XY	(7	-		OR (C)ON	MP.				er:		Zip:			
Sample Condition Cool Intact Yes Tyes		Received By:	3 a	bing whether besed in contract or tort, shall be limited to the shed unless made in writing and received by Cardinal within the hardings before the contract of the contract o	× 7.	* *	×	×	۲,	4	××	< ×	GR	OUNG	AINERS DWATER VATER	MATRIX						76902			
ndition act es		Day of	claim is bee	ontract or for ling and reca			-					+	SLU	IDGE		XIX		70	S	0	Þ	Þ	0	7	2000
CHECKED BY.		Malley	is based upon any of the at	<ul> <li>t, shall be limited to the amount paid by the client for the inved by Cardinal within 30 days after completion of the applicable</li> </ul>	×>	<×	X	X	X	XX	< <del>×</del>	4	ACII C ICE	D/BAS / COO HER :	- 717	PRESERV.	Fax #:	Phone #: (7)	State: TX	City: SAN ANGELO	Address: Pc	Attn: DON DUNBAR	Company: EN-CLOSHAR	P.O. #: 1	BILL
S)		The same of the sa	bove stated rea	he amount paid in 30 days after	4	+	_		-	+	+	04/03/23	DATE			SAM		713/54-2873	Zip: 76902	MEL	PO BOX 5	JUNBA	M-C10		LL TO
Turnaround Time:  5 DAY TAT  Thermometer ID #113	Pu	All Results are emailed. Please provide Email address:  Pow.pun3A p. @ EN-CLOSUIGE, CO	bove stated reasons or otherwise.  Verbal Result:	d by the client for the ar	1355	1350	1350	1345	1345	バング	1225	135	TIME			SAMPLING		2873	902	0	5336		SHRE, LLC		
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### Laboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	-  -		2476	1						1							-					1
Project Manager:		SAN INCOME		1		P.O. #	- 10					1	1	P	ANALYSIS		급	REQUEST	-		1	4
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City: 7AN A	ANGELO	State: TX	Zip:		76902	Attn	DON.	Attn: DON DINBAR	7		-B			5	5_			_				
Phone #:(7/3)	3)504-2873	Fax#:				Add	Address: P	PO BOX K	336		CL			-	d.	-	_	_				
Project #:		Project Owner:	77			City:	SAN	City: SAN ANGELO			00	)			8-	_	_		-			
Project Name:	SAND PUNE	h 531				State	State: TX	Zip: 76902	20		15	260		,,	1-1	_	_					
Project Location:	2.7	N.M.				Pho	Phone #: 7	713)54-2873	873		n	82		1		_	_					
Sampler Name:	BRAD ALKER	ER	¥.			Fax #				B	51	7			1	_	_	_				_
FOR LAB USE ONLY			MP.		MATRIX	9	PRESERV	SAMPLING	LING	040	es-	202	015	1/	M							
Lab I.D.	Sample I.D.	e I.D.	(G)RAB OR (C)ON	# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE:	ICE / COOL OTHER :	DATE	TIME	PH - 90	CHLORIDE	BTEX -4	TPH - 8	Mad	Caa							
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RESULT

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### CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

100	575) 393-2326 FAX (575) 393-2476	2476	BILL TO	ANALYSIS	9/6
Address: POR PUNB	DUNBAR (22)		P.O.# N/A	1	
46/10 11	'O'		Company: EN-CLOSHAZ	144	
CIN. 1780 VINOVIO	State: 1 X	Zip: 16902	Attn: DON DUNBAR	- 69	
Phone #: (1/3) 504 - 2873	3 Fax#:		Address: PO BOX 533	CL	
Project #:	Project Owner:	ň	City: SAN ANGELO	00	T
Project Name: SAND PU	PUNESY		State: TX Zip: 7690	15	
Project Location: LOVING	LOVING, N.M.		Phone #: (713)524 -2873	n 4	
Sampler Name: BRAD AL	ALKER		Fax #:	3	
FOR LAB USE ONLY		MATRIX	PRESERV. SAM	SAMPLING 40	
93 <b>.</b>	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	PH - 90 CHLORIDE BTEX -	,
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PLEASE NOTE: Liability and Damagos. Cardinal's liability and Damagos. All claims including those for maniferance and	ent's exclusive remedy	6.	ther bised in contract or tort, shall be limited to the amount paid	1	1
emergees, no certains instructing imper for negligence and any other service. In no event shall Cardinal be liable for incidental or consu- atfliaties or successors arising out of or related to the performance.	cause whatsoever equental damages, e of services hereu.	eerned was without itrnit ardinal, rega	y Cardinal within 30 da or loss of profits incurr on any of the above st	ys after completion of the applicable ed by client, its subsidiaries, and reasons or otherwise.	,
Brad Aller	04/05/23 Time: 485	Meceived by:		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	99.
Relinquished By:	Date: Time:	Received By:	James Carrier	REMARKS: PLEASE AND PROVIDE ERPS	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact Tyes Tyes	n CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Bacteria (only Cool Infact Thermometer ID #113 ☐ Yes ☐ Yes	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Relinquished By:

Browl

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C Observed Temp. °C Time:

50

CHECKED BY: (Initials) 9

Turnaround Time:

5 DAY 5A)

Thermometer ID #11

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

mometer ID #113 ection Factor -0.6°C

PLEASE PROVIDE

Received By:

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RO I

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

				THE CONTRACTOR OF THE PERSON NAMED IN	ANALYSIS	STOURS!	
Project Manager:	er: por DINBAR		P.O. #: N/A		9		
Address: PE	Address: Po Box 5336		Company: EN-11054 AZ	DSH AZ LLQ	Ŋ.		
City: 7AN ANGELO	ANGELO State: TX	Zip: 76902	Attn: DON DUNBAR				
Phone #:(7)3	Phone #:(7/3) 504 - 2873 Fax #:		Address: PO BOX 5336	336			
Project #:	Project Owner:	er:	City: SAN ANGELO		)		
Project Name:	SAND DUNESY		State: TX Zip: 76902		60		
Project Location:	m: LOVING, NIM.		Phone #- (713)521 - 2073		32		
Sampler Name:	Ba		Fay #:	3	£ 5		
FOR LAB USE ONLY		MATRIX	FOEDV	01	5		
			PRESERV. SAN	SAMPLING OY	301		
Lab I.D.	Sample I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	ACID/BASE: CE/COOL DTHER:	PH - 9 CHLORID	BTEX- TPH-8 CLAN		
H	56-21/0-0.5")	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	< 10 5		1		
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K	53-23 (0-0.5')	<u> </u>	*	1515 X X	1		
46	53-23 (1.5-2.0')	×	×.	15/5	ON HOUSE		V
Ch	513-24(0-0.51)	×	7	1520 X X	X		,
8	SB-24 (1.5-21)	×-	X:	1	ON HOLD		
3	50-25 (0-0.5')	X	× ·	1530 4 4			
SO		×-	×;	1530	10× 40 ×		8
*LEASE NOTE: Liability and Damages. Cardinal's nalyses. All claims. Including those for negligence.	d Darnages. Cardinal's liability and client's exclusive remedy for a ig those for negligence and any other cause whatsomer shall he	edy for any claim arising whether based in contract or tort, shall be limited to the amount	fort, shall be limited to the amount pa	paid by the client for the	3		
Wice. In no event shall Ca lifetes or successors arising	ervice. In no event shall Cardinal be liable for incidental or consequental demanders in the perfect of the special control of the specia	undersed watered universe made in writing and re without limitation, business interruptions, loss ardinal, regardless of whether such claim is t	sceived by Cardinal within 30 days after so fuse, or loss of profits incurred by the above stated to	r completion of the applicable Sent, its subsidiaries,			
Relinquished By	Relinquished By: Date:	Received By:	MILL	Verbal Result: Yes	□ No Add'l Phone #:	9.共	
Brack All		Manustr		All Results are emailed.	lease prov	dress:	

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C	Bacteria (only) to Cool Intact		Standard Rush	0	ime:	Turnaround Time:  \$ DAY TAS Thermometer ID #111 Correction Factor -0.5	CHECKED BY: (Initials)	A SHE	Yes No	Sample Condition Cool Intact Yes Yes No No	2000	Corrected Temp. °C	her:	Sampler - UPS - Bus - Ott	
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		Add'i Phone #:	Add"	ON D	☐ Yes	It:	Verbal Result:	1110	6		By:	Received By	04/05/23		Reilinduished by:	
					,	ppecade	tent, its subsidiaries, sons or otherwise.	ges, including without smitation, business interruptions, loss of use, or loss of profits incurred by clean, its subdaries ensured by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	of use, or loss sed upon any	fions, loss claim is be	n, business interrup ass of whether such	Athout limitation dinal, regardles	equental damages, including was of services herounder by Car	rvice. In no event shall Cardinal be liable for incidental or constitutes or successors arising out of or related to the performance.	service. In no event shall Can affiliates or successors arising	_
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_		<u>~</u>	,	87	n		2873	(713)504-2873	Phone #:	7			N.M.	LOVING,	Project Location:	
_		-/	,	260	15		902	X Zip: 76902	State: TX	10			45	SAND PUNE	Project Name:	
_		P-		0	00		0	City: SAN ANGELO	ity: SA	0		л	Project Owner:		Project #:	
_		2			CL		5336	PO BOX 5	Address:				Fax #:	3)504-2873	1	
_		3	4		-B		186	Attn: DON DUNBAR	Attn: Do		76902	Zip: 7	State: TX	ANGELO		
-		y.e	_				DY EN HSC	Company: EN-CLOSHAZ	compan					Box 5336	200	
+							•	NA	P.O. #:	•			R	DON	Project Manager:	
	REQUEST	ANALYSIS REC	AN					BILL TO					x,LLC	- PN-CTOINER		



April 24, 2023

DON DUNBAR

EN-CLOSURE, LLC

11822 BROOK MEADOWS

MEADOWSPLACE, TX 77477

RE: SAND DUNES 4

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 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)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

Reported: 24-Apr-23 09:27

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB - 31 (0-0.5')	H231594-01	Soil	04-Apr-23 08:45	05-Apr-23 14:05
SB - 31 (1.5-2.0')	H231594-02	Soil	04-Apr-23 08:45	05-Apr-23 14:05
SB - 32 (0-0.5')	H231594-03	Soil	04-Apr-23 08:50	05-Apr-23 14:05
SB - 32 (1.5-2.0')	H231594-04	Soil	04-Apr-23 08:50	05-Apr-23 14:05
SB - 33 (0-0.5')	H231594-05	Soil	04-Apr-23 08:55	05-Apr-23 14:05
SB - 33 (1.5-2.0')	H231594-06	Soil	04-Apr-23 08:55	05-Apr-23 14:05
SB - 34 (0-0.5')	H231594-07	Soil	04-Apr-23 09:00	05-Apr-23 14:05
SB - 34 (1.5-2.0')	H231594-08	Soil	04-Apr-23 09:00	05-Apr-23 14:05
SB - 35 (0-0.5')	H231594-09	Soil	04-Apr-23 09:05	05-Apr-23 14:05
SB - 35 (1.5-2.0')	H231594-10	Soil	04-Apr-23 09:05	05-Apr-23 14:05
SB - 36 (0-0.5')	H231594-11	Soil	04-Apr-23 09:10	05-Apr-23 14:05
SB - 36 (1.5-2.0')	H231594-12	Soil	04-Apr-23 09:10	05-Apr-23 14:05
SB - 37 (0-0.5')	H231594-13	Soil	04-Apr-23 09:15	05-Apr-23 14:05
SB - 37 (1.5-2.0')	H231594-14	Soil	04-Apr-23 09:15	05-Apr-23 14:05
SB - 38 (0-0.5')	H231594-15	Soil	04-Apr-23 09:50	05-Apr-23 14:05
SB - 38 (1.5-2.0')	H231594-16	Soil	04-Apr-23 09:50	05-Apr-23 14:05
SB - 39 (0-0.5')	H231594-17	Soil	04-Apr-23 09:55	05-Apr-23 14:05
SB - 39 (1.5-2.0')	H231594-18	Soil	04-Apr-23 09:55	05-Apr-23 14:05
SB - 40 (0-0.5')	H231594-19	Soil	04-Apr-23 10:00	05-Apr-23 14:05
SB - 40 (1.5-2.0')	H231594-20	Soil	04-Apr-23 10:00	05-Apr-23 14:05
SB - 41 (0-0.5')	H231594-21	Soil	04-Apr-23 10:05	05-Apr-23 14:05
SB - 41 (1.5-2.0')	H231594-22	Soil	04-Apr-23 10:05	05-Apr-23 14:05
SB - 42 (0-0.5')	H231594-23	Soil	04-Apr-23 10:10	05-Apr-23 14:05
SB - 42 (1.5-2.0')	H231594-24	Soil	04-Apr-23 10:10	05-Apr-23 14:05
SB - 43 (0-0.5')	H231594-25	Soil	04-Apr-23 10:15	05-Apr-23 14:05
SB - 43 (1.5-2.0')	H231594-26	Soil	04-Apr-23 10:15	05-Apr-23 14:05
SB - 44 (0-0.5')	H231594-27	Soil	04-Apr-23 10:20	05-Apr-23 14:05

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Celey D. Keine



### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477		Project: Project Number: Project Manager: Fax To:	DON DUNBAR	Reported: 24-Apr-23 09:27
SB - 44 (1.5-2.0')	H231594-28	Soil	04-Apr-23 10:20	05-Apr-23 14:05
SB - 45 (0-0.5')	H231594-29	Soil	04-Apr-23 10:25	05-Apr-23 14:05
SB - 45 (1.5-2.0')	H231594-30	Soil	04-Apr-23 10:25	05-Apr-23 14:05
SB - 46 (0-0.5')	H231594-31	Soil	04-Apr-23 10:30	05-Apr-23 14:05
SB - 46 (1.5-2.0')	H231594-32	Soil	04-Apr-23 10:30	05-Apr-23 14:05
SB - 47 (0-0.5')	H231594-33	Soil	04-Apr-23 10:36	05-Apr-23 14:05
SB - 47 (1.5-2.0')	H231594-34	Soil	04-Apr-23 10:36	05-Apr-23 14:05
SB - 48 (0-0.5')	H231594-35	Soil	04-Apr-23 10:40	05-Apr-23 14:05
SB - 48 (1.5-2.0')	H231594-36	Soil	04-Apr-23 10:40	05-Apr-23 14:05
SB - 49 (0-0.5')	H231594-37	Soil	04-Apr-23 10:45	05-Apr-23 14:05
SB - 49 (1.5-2.0')	H231594-38	Soil	04-Apr-23 10:45	05-Apr-23 14:05
SB - 50 (0-0.5')	H231594-39	Soil	04-Apr-23 11:00	05-Apr-23 14:05
SB - 50 (1.5-2.0')	H231594-40	Soil	04-Apr-23 11:00	05-Apr-23 14:05
SB - 51 (0-0.5')	H231594-41	Soil	04-Apr-23 11:05	05-Apr-23 14:05
SB - 51 (1.5-2.0')	H231594-42	Soil	04-Apr-23 11:05	05-Apr-23 14:05
SB - 52 (0-0.5')	H231594-43	Soil	04-Apr-23 11:10	05-Apr-23 14:05
SB - 52 (1.5-2.0')	H231594-44	Soil	04-Apr-23 11:10	05-Apr-23 14:05
SB - 53 (0-0.5')	H231594-45	Soil	04-Apr-23 11:15	05-Apr-23 14:05
SB - 53 (1.5-2.0')	H231594-46	Soil	04-Apr-23 11:15	05-Apr-23 14:05
SB - 54 (0-0.5')	H231594-47	Soil	04-Apr-23 11:20	05-Apr-23 14:05
SB - 54 (1.5-2.0')	H231594-48	Soil	04-Apr-23 11:20	05-Apr-23 14:05
SB - 55 (0-0.5')	H231594-49	Soil	04-Apr-23 11:25	05-Apr-23 14:05
SB - 55 (1.5-2.0')	H231594-50	Soil	04-Apr-23 11:25	05-Apr-23 14:05
SB - 56 (0-0.5')	H231594-51	Soil	04-Apr-23 11:30	05-Apr-23 14:05
SB - 56 (1.5-2.0')	H231594-52	Soil	04-Apr-23 11:30	05-Apr-23 14:05

04/14/23 - Client added BTEX and TPH to samples -01 and -03 (see COC). This is the revised report and will replace the one sent on 04/11/23.

04/20/23 - Client added chlorides (see COC). This is the 2nd revision of the report and will replace the one sent on 04/14/23. 04/24/23 - Client added chloride to sample -52 (see COC). This is the 3rd revision of the report and will replace the one sent on 04/20/23.

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Project Manager: DON DUNBAR Fax To: NA Reported: 24-Apr-23 09:27

SB - 31 (0-0.5') H231594-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.25		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040642	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3041217	MS	12-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041217	MS	12-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041217	MS	12-Apr-23	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2-	134	3041217	MS	12-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1-	148	3041217	MS	12-Apr-23	8015B	
Volatile Organic Compounds l	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3041245	MS	13-Apr-23	8260B	QR-03
Toluene*	< 0.025		0.025	mg/kg	50	3041245	MS	13-Apr-23	8260B	QR-03
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3041245	MS	13-Apr-23	8260B	QR-03
Total Xylenes*	< 0.075		0.075	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Surrogate: Dibromofluoromethane			98.6 %	86.7-	-111	3041245	MS	13-Apr-23	8260B	
Surrogate: Toluene-d8			101 %	89.3-	110	3041245	MS	13-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			97.6 %	88.2-	108	3041245	MS	13-Apr-23	8260B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

24-Apr-23 09:27



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

### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 31 (1.5-2.0') H231594-02 (Soil)

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

**Inorganic Compounds** 16.0 3041957 GM 20-Apr-23 4500-Cl-B Chloride 80.0 mg/kg

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Celey D. Keens



### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 32 (0-0.5') H231594-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.45		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040642	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3041217	MS	12-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3041217	MS	12-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3041217	MS	12-Apr-23	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2-	134	3041217	MS	12-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1-	148	3041217	MS	12-Apr-23	8015B	
Volatile Organic Compounds by	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3041245	MS	13-Apr-23	8260B	
Surrogate: Dibromofluoromethane			96.0 %	86.7-	-111	3041245	MS	13-Apr-23	8260B	
Surrogate: Toluene-d8			98.0 %	89.3-	-110	3041245	MS	13-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			97.4 %	88.2-	108	3041245	MS	13-Apr-23	8260B	

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Celey D. Keine



### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 32 (1.5-2.0') H231594-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	3041957	GM	20-Apr-23	4500-Cl-B	

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24-Apr-23 09:27



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Manager: DON DUNBAR Fax To: NA

SB - 33 (0-0.5') H231594-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	7.96		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040642	AC	11-Apr-23	9045	

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Celey D. Keens



<16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 33 (1.5-2.0') H231594-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										

mg/kg

3041957

GM

20-Apr-23

16.0

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Celeg D. Keine



### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 34 (0-0.5') H231594-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.21		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040642	AC	11-Apr-23	9045	

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Celey D. Keene

24-Apr-23 09:27



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 34 (1.5-2.0') H231594-08 (Soil)

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

### **Cardinal Laboratories**

**Inorganic Compounds** <16.0 16.0 3041957 GM 20-Apr-23 4500-Cl-B Chloride mg/kg

Cardinal Laboratories \*=Accredited Analyte

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24-Apr-23 09:27



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 35 (0-0.5') H231594-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.26		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040642	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 35 (1.5-2.0') H231594-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	3041957	GM	20-Apr-23	4500-Cl-B	

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24-Apr-23 09:27



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 36 (0-0.5') H231594-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.07		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040642	AC	11-Apr-23	9045	

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48.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 36 (1.5-2.0') H231594-12 (Soil)

1	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
	Cardinal Laboratories											
In	organic Compounds											

mg/kg

3041957

GM

20-Apr-23

16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 37 (0-0.5') H231594-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.19		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040642	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 37 (1.5-2.0') H231594-14 (Soil)

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

mg/kg

16.0

3041957

GM

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 38 (0-0.5') H231594-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	7.95		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040642	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 38 (1.5-2.0') H231594-16 (Soil)

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

mg/kg

16.0

3041957

GM

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 39 (0-0.5') H231594-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3041012	AC	10-Apr-23	4500-Cl-B	
pH*	8.15		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040642	AC	11-Apr-23	9045	

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20-Apr-23

### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 39 (1.5-2.0') H231594-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardin	al Laborat	ories					

mg/kg

16.0

3041957

GM

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

Reported: 24-Apr-23 09:27

SB - 40 (0-0.5') H231594-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	7.98		0.100	pH Units	1	3040642	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040642	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Manager: DON DUNBAR Fax To: NA

SB - 40 (1.5-2.0') H231594-20 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

### **Cardinal Laboratories**

 Inorganic Compounds

 Chloride
 32.0
 16.0
 mg/kg
 4
 3041957
 GM
 20-Apr-23
 4500-Cl-B

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 41 (0-0.5') H231594-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.16		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	20.0			pH Units	1	3040643	AC	11-Apr-23	9045	

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64.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 41 (1.5-2.0') H231594-22 (Soil)

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

mg/kg

3041957

GM

20-Apr-23

16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 42 (0-0.5') H231594-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.26		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040643	AC	11-Apr-23	9045	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 42 (1.5-2.0') H231594-24 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories											
	Inorganic Compounds										
	Chloride	32.0		16.0	mg/kg	4	3041957	GM	20-Apr-23	4500-Cl-B	

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

24-Apr-23 09:27

Fax To: NA

SB - 43 (0-0.5') H231594-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.12		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040643	AC	11-Apr-23	9045	

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80.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 43 (1.5-2.0') H231594-26 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 44 (0-0.5') H231594-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.16		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	20.0			pH Units	1	3040643	AC	11-Apr-23	9045	

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24-Apr-23 09:27



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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 44 (1.5-2.0') H231594-28 (Soil)

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

**Inorganic Compounds** 

16.0 3042007 GM 20-Apr-23 4500-Cl-B Chloride 48.0 mg/kg

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 45 (0-0.5') H231594-29 (Soil)

Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
112		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
8.27		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
20.0			pH Units	1	3040643	AC	11-Apr-23	9045	
	112 8.27	112 8.27	Result MDL Limit  Cardin  112 16.0 8.27 0.100	Cardinal Laborate   112	Cardinal Laboratories	Cardinal Laboratories	Cardinal Laboratories	Cardinal Laboratories	Result   MDL   Limit   Units   Dilution   Batch   Analyst   Analyzed   Method

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64.0

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### Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 45 (1.5-2.0') H231594-30 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 46 (0-0.5') H231594-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.27		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040643	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 46 (1.5-2.0') H231594-32 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 47 (0-0.5') H231594-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	7.95		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040643	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 47 (1.5-2.0') H231594-34 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 48 (0-0.5') H231594-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.33		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040643	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 48 (1.5-2.0') H231594-36 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Fax To: NA

SB - 49 (0-0.5') H231594-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.21		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.9			pH Units	1	3040643	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 49 (1.5-2.0') H231594-38 (Soil)

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

## **Cardinal Laboratories**

**Inorganic Compounds** 16.0 3042007 GM 20-Apr-23 4500-Cl-B Chloride 48.0 mg/kg

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project Number: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Manager: DON DUNBAR Fax To: NA Reported: 24-Apr-23 09:27

SB - 50 (0-0.5') H231594-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.19		0.100	pH Units	1	3040643	AC	11-Apr-23	9045	
Temperature °C	19.8			pH Units	1	3040643	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctane			89.0 %	48.2-	134	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			89.2 %	49.1-	148	3040620	MS	10-Apr-23	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Surrogate: Dibromofluoromethane			97.0 %	86.7-	-111	3040606	MS	10-Apr-23	8260B	
Surrogate: Toluene-d8			101 %	89.3-	-110	3040606	MS	10-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			99.5 %	88.2-	108	3040606	MS	10-Apr-23	8260B	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Project Manager: DON DUNBAR Fax To: NA Reported: 24-Apr-23 09:27

SB - 50 (1.5-2.0') H231594-40 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

## **Cardinal Laboratories**

 Inorganic Compounds

 Chloride
 64.0
 16.0
 mg/kg
 4
 3042007
 GM
 20-Apr-23
 4500-Cl-B

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 51 (0-0.5') H231594-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	7.91		0.100	pH Units	1	3040644	AC	11-Apr-23	9045	
Temperature °C	19.6			pH Units	1	3040644	AC	11-Apr-23	9045	

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20-Apr-23

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 51 (1.5-2.0') H231594-42 (Soil)

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

mg/kg

16.0

3042007

GM

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 52 (0-0.5') H231594-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.32		0.100	pH Units	1	3040644	AC	11-Apr-23	9045	
Temperature °C	19.5			pH Units	1	3040644	AC	11-Apr-23	9045	
Chloride pH*	8.32			pH Units	4 1 1	3040644	AC	11-Apr-23	9045	

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 52 (1.5-2.0') H231594-44 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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24-Apr-23 09:27



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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN

Project Manager: DON DUNBAR

Fax To: NA

SB - 53 (0-0.5') H231594-45 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	320		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B					
pH*	8.08		0.100	pH Units	1	3040644	AC	11-Apr-23	9045					
Temperature °C	19.6			pH Units	1	3040644	AC	11-Apr-23	9045					

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 53 (1.5-2.0') H231594-46 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					

 Inorganic Compounds
 64.0
 16.0
 mg/kg
 4
 3042007
 GM
 20-Apr-23
 4500-Cl-B

Cardinal Laboratories \*=Accredited Analyte

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

SB - 54 (0-0.5') H231594-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories													
Inorganic Compounds														
Chloride	128		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B					
pH*	8.24		0.100	pH Units	1	3040644	AC	11-Apr-23	9045					
Temperature °C	19.5			pH Units	1	3040644	AC	11-Apr-23	9045					

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20-Apr-23

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 54 (1.5-2.0') H231594-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardin	al Laborat	ories					

mg/kg

16.0

3042007

GM

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Project Manager: DON DUNBAR Fax To: NA

> SB - 55 (0-0.5') H231594-49 (Soil)

Reporting Limit Result MDL Units Dilution Analyzed Method Notes Analyte Batch Analyst **Cardinal Laboratories Inorganic Compounds** 4 3041013 4500-Cl-B Chloride 112 16.0 mg/kg AC10-Apr-23 pH Units 1 3040644 AC 9045 pH\* 8.21 0.100 11-Apr-23 9045 Temperature °C 19.5 pH Units 1 3040644 AC 11-Apr-23

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 55 (1.5-2.0') H231594-50 (Soil)

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

mg/kg

3042007

GM

20-Apr-23

16.0

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Fax To: NA

SB - 56 (0-0.5') H231594-51 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	3041013	AC	10-Apr-23	4500-Cl-B	
pH*	8.28		0.100	pH Units	1	3040644	AC	11-Apr-23	9045	
Temperature °C	19.4			pH Units	1	3040644	AC	11-Apr-23	9045	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
DRO >C10-C28*	78.4		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctane			83.9 %	48.2-	-134	3040620	MS	10-Apr-23	8015B	
Surrogate: 1-Chlorooctadecane			85.3 %	49.1-	-148	3040620	MS	10-Apr-23	8015B	
Volatile Organic Compounds b	oy EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	3040606	MS	10-Apr-23	8260B	
Surrogate: Dibromofluoromethane			93.8 %	86.7	-111	3040606	MS	10-Apr-23	8260B	
Surrogate: Toluene-d8			97.0 %	89.3-	-110	3040606	MS	10-Apr-23	8260B	
Surrogate: 4-Bromofluorobenzene			100 %	88.2-	-108	3040606	MS	10-Apr-23	8260B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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21-Apr-23

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Chloride

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

4500-Cl-B

Fax To: NA

SB - 56 (1.5-2.0') H231594-52 (Soil)

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

mg/kg

16.0

3042147

GM

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3040642 - General Prep - Wet Chem										
LCS (3040642-BS1)				Prepared: (	)6-Apr-23 A	Analyzed: 1	1-Apr-23			
pH	7.05		pH Units	7.00		101	90-110			
Duplicate (3040642-DUP1)	Sou	rce: H231594	-01	Prepared: (	)6-Apr-23 A	Analyzed: 1	1-Apr-23			
pH	8.25	0.100	pH Units		8.25			0.00	20	
Temperature °C	19.9		pH Units		19.9			0.00	200	
Batch 3040643 - General Prep - Wet Chem										
LCS (3040643-BS1)				Prepared: (	)6-Apr-23 A	Analyzed: 1	1-Apr-23			
рН	7.11		pH Units	7.00		102	90-110			
<b>Duplicate (3040643-DUP1)</b>	Sou	rce: H231594	-21	Prepared: (	)6-Apr-23 A	Analyzed: 1	1-Apr-23			
pН	8.12	0.100	pH Units		8.16			0.491	20	
Temperature °C	20.0		pH Units		20.0			0.00	200	
Batch 3040644 - General Prep - Wet Chem										
LCS (3040644-BS1)				Prepared: (	)6-Apr-23 A	Analyzed: 1	1-Apr-23			
pH	7.11		pH Units	7.00		102	90-110			
Duplicate (3040644-DUP1)	Sou	rce: H231594	-41	Prepared: (	)6-Apr-23 A	Analyzed: 1	1-Apr-23			
pH	7.91	0.100	pH Units		7.91			0.00	20	
Temperature °C	19.5		pH Units		19.6			0.512	200	
Batch 3041012 - 1:4 DI Water										
Blank (3041012-BLK1)				Prepared &	Analyzed:	10-Apr-23				
Chloride	ND	16.0	mg/kg							

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## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

%REC	Limits	RPD	Limit	Notes		
108	80-120					
: 10-Apr-23						
100	80-120	7.69	20			
l: 10-Apr-23						
Prepared & Analyzed: 10-Apr-23						
104	80-120					
l: 10-Apr-23						
108	80-120	3.77	20			
: 19-Apr-23						
l: 19-Apr-23						
100	80-120					
: 19-Apr-23						
	104 1: 10-Apr-23	104 80-120 I: 10-Apr-23 108 80-120 I: 19-Apr-23	104 80-120 1: 10-Apr-23 108 80-120 3.77 1: 19-Apr-23	104 80-120 1: 10-Apr-23 108 80-120 3.77 20 1: 19-Apr-23		

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

Fax To: NA

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	20-Apr-23				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	20-Apr-23				
432	16.0	mg/kg	400		108	80-120			
			Prepared & Analyzed: 20-Apr-23						
432	16.0	mg/kg	400		108	80-120	0.00	20	
			Prepared &	Analyzed:	21-Apr-23				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	21-Apr-23				
400	16.0	mg/kg	400		100	80-120			
			Prepared &	Analyzed:	21-Apr-23				
432	16.0	mg/kg	400		108	80-120	7.69	20	
	ND 432 432 ND 400	Result Limit  ND 16.0  432 16.0  ND 16.0  A32 16.0  ND 16.0	ND	Result   Limit   Units   Level	Prepared & Analyzed:   ND	Result   Limit   Units   Level   Result   %REC	Prepared & Analyzed: 20-Apr-23     ND	Prepared & Analyzed: 20-Apr-23	Prepared & Analyzed: 20-Apr-23

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RPD

Limit

17.7

0.900

Notes



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%REC

Limits

RPD

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Analyte

Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Spike

Level

50.0

Source

Result

NONE GIVEN 24-Apr-23 09:27 DON DUNBAR

%REC

94.9

49.1-148

Fax To: NA

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

Result

Blank (3040620-BLK1)				Prepared: 06-Ap	or-23 Analyzed:	0-Apr-23
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0	82.7	48.2-134
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0	85.1	49.1-148
LCS (3040620-BS1)				Prepared: 06-Ap	or-23 Analyzed: 1	0-Apr-23
GRO C6-C10	191	10.0	mg/kg	200	95.3	78.5-124
DRO >C10-C28	192	10.0	mg/kg	200	95.8	72.5-126
Total TPH C6-C28	382	10.0	mg/kg	400	95.6	77.6-123

mg/kg

LCS Dup (3040620-BSD1)				Prepared: 06-	-Apr-23 Analyzed: 10	)-Apr-23
GRO C6-C10	189	10.0	mg/kg	200	94.5	78.5-124

47.5

DRO >C10-C28	186	10.0 mg/kg	200	93.2	72.5-126	2.70	21
Total TPH C6-C28	375	10.0 mg/kg	400	93.9	77.6-123	1.80	18.5
Surrogate: 1-Chlorooctane	48.0	mg/kg	50.0	96.0	48.2-134		
Surrogate: 1-Chlorooctadecane	46.8	ma/ka	50.0	93.5	49 1-148		

**Batch 3041217 - General Prep - Organics** 

Surrogate: 1-Chlorooctadecane

Blank (3041217-BLK1)			]	Prepared & Analyzed: 12	2-Apr-23	
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	47.5		mg/kg	49.6	95.9	48.2-134
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0	104	49.1-148

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%REC

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

RPD

Fax To: NA

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3041217 - General Prep - Organics										
LCS (3041217-BS1)				Prepared &	k Analyzed:	12-Apr-23				
GRO C6-C10	187	10.0	mg/kg	200		93.6	78.5-124			
DRO >C10-C28	184	10.0	mg/kg	200		91.9	72.5-126			
Total TPH C6-C28	371	10.0	mg/kg	400		92.7	77.6-123			
Surrogate: 1-Chlorooctane	47.9		mg/kg	49.6		96.7	48.2-134			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.7	49.1-148			
LCS Dup (3041217-BSD1)				Prepared &	દે Analyzed:	12-Apr-23				
GRO C6-C10	205	10.0	mg/kg	200		102	78.5-124	8.89	17.7	
DRO >C10-C28	188	10.0	mg/kg	200		94.2	72.5-126	2.47	21	
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	77.6-123	5.76	18.5	
Surrogate: 1-Chlorooctane	48.7		mg/kg	49.6		98.4	48.2-134			
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	49.1-148			

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Celey D. Keene

24-Apr-23 09:27

RPD



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

%REC

## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

lanager: DON DUNBAR Fax To: NA

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

Source

Spike

## **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3040606 - Volatiles										
Blank (3040606-BLK1)				Prepared: (	06-Apr-23 A	Analyzed: 1	0-Apr-23			
Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.17		mg/kg	1.25		93.4	86.7-111			
Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.4	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		99.9	88.2-108			
LCS (3040606-BS1)				Prepared: (	06-Apr-23 A	Analyzed: 1	0-Apr-23			
Benzene	0.479	0.025	mg/kg	0.500		95.8	70.2-121			
Toluene	0.473	0.025	mg/kg	0.500		94.6	76.9-126			
Ethylbenzene	0.475	0.025	mg/kg	0.500		94.9	79.1-124			
m+p - Xylene	0.985	0.050	mg/kg	1.00		98.5	80.8-134			
o-Xylene	0.486	0.025	mg/kg	0.500		97.3	79-130			
Total Xylenes	1.47	0.075	mg/kg	1.50		98.1	80.5-132			
Surrogate: Dibromofluoromethane	1.21		mg/kg	1.25		97.0	86.7-111			
Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.5	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.28		mg/kg	1.25		102	88.2-108			
LCS Dup (3040606-BSD1)				Prepared: (	06-Apr-23 A	Analyzed: 1	0-Apr-23			
Benzene	0.460	0.025	mg/kg	0.500		91.9	70.2-121	4.15	11.1	
Toluene	0.471	0.025	mg/kg	0.500		94.2	76.9-126	0.453	12.2	
Ethylbenzene	0.454	0.025	mg/kg	0.500		90.9	79.1-124	4.36	12.3	
m+p - Xylene	0.951	0.050	mg/kg	1.00		95.1	80.8-134	3.53	11.5	
o-Xylene	0.469	0.025	mg/kg	0.500		93.8	79-130	3.58	12.3	
Total Xylenes	1.42	0.075	mg/kg	1.50		94.7	80.5-132	3.55	11.7	
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		95.7	86.7-111			
Surrogate: Toluene-d8	1.29		mg/kg	1.25		103	89.3-110			
C (D C 1	1.27			1.25		102	00 2 100			

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mg/kg

1.25

102

88.2-108

Celey D. Keine

Surrogate: 4-Bromofluorobenzene



## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477

Project: SAND DUNES 4 Project Number: NONE GIVEN Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

## **Cardinal Laboratories**

	<b>D</b>	Reporting	TT 1.	Spike	Source	N/DEC	%REC	DDD	RPD	37.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3041245 - Volatiles										
Blank (3041245-BLK1)				Prepared:	2-Apr-23 A	analyzed: 1	3-Apr-23			
Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.22		mg/kg	1.25		98.0	86.7-111			
Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.5	88.2-108			
LCS (3041245-BS1)				Prepared: 1	2-Apr-23 A	nalyzed: 1	3-Apr-23			
Benzene	0.456	0.025	mg/kg	0.500		91.1	70.2-121			
Toluene	0.453	0.025	mg/kg	0.500		90.7	76.9-126			
Ethylbenzene	0.462	0.025	mg/kg	0.500		92.3	79.1-124			
m+p - Xylene	0.947	0.050	mg/kg	1.00		94.7	80.8-134			
o-Xylene	0.458	0.025	mg/kg	0.500		91.7	79-130			
Total Xylenes	1.41	0.075	mg/kg	1.50		93.7	80.5-132			
Surrogate: Dibromofluoromethane	1.25		mg/kg	1.25		99.8	86.7-111			
Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.3	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.26		mg/kg	1.25		101	88.2-108			
LCS Dup (3041245-BSD1)				Prepared:	2-Apr-23 A	.nalyzed: 1	3-Apr-23			
Benzene	0.427	0.025	mg/kg	0.500		85.3	70.2-121	6.58	11.1	
Toluene	0.444	0.025	mg/kg	0.500		88.8	76.9-126	2.10	12.2	
Ethylbenzene	0.418	0.025	mg/kg	0.500		83.6	79.1-124	9.89	12.3	
m+p - Xylene	0.868	0.050	mg/kg	1.00		86.8	80.8-134	8.68	11.5	
o-Xylene	0.428	0.025	mg/kg	0.500		85.7	79-130	6.80	12.3	
Total Xylenes	1.30	0.075	mg/kg	1.50		86.4	80.5-132	8.06	11.7	
Surrogate: Dibromofluoromethane	1.23		mg/kg	1.25		98.8	86.7-111			
Surrogate: Toluene-d8	1.30		mg/kg	1.25		104	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.4	88.2-108			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

EN-CLOSURE, LLC 11822 BROOK MEADOWS MEADOWSPLACE TX, 77477 Project: SAND DUNES 4
Project Number: NONE GIVEN
Project Manager: DON DUNBAR

Reported: 24-Apr-23 09:27

Fax To: NA

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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## **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keine

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/6

Company Name: Project Manager: Address: Pol	ame: EN-CLOSURE, LLC	2010	
AN T	City: 5AN ANGELO State: TX	Zip: 76902	Attn: DON DUNBAR
(7)	Phone #:(7)3)504-2873 Fax#:		Address: PO BOX 5336
Project #:	Project Owner:		City: SAN ANGELO
Project Name:	SAND PUNESY		State: TX Zip: 76902
Project Location:	on: LOVING, N, M.		2
Sampler Name:	BA		Fax#:
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING
Lab I.D.	0)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:
- 00	1-1	××	
CU	5B-32 (1.5 - 2.0')	Z X	<×<
00	100	X:	X
16	513-59 (1.5-2.0')	< X	X 0855
00	SB-34 (1.5-21)	× >	2000
2	50-35 (0-0.5')	X - X	X
LO 5 3 - 3  EASE NOTE: Liability and Damages, Call claims including those for negl	S (/e 5-2.0") Irdinet's liability and client's exclusive remedy in the cause whatsoever shall	or any claim arising whether based in contract or by to dearned waked unless made in writing and recipion to dearned waked unless made in writing and recipion.	X 9055 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905 4 905
elinquished By:  Sred Aha elinquished By:	out of or related to the performance of services hereus	Received By:  Received By:  Received By:	All Results are emailed. Please provide Email address:  **PON. DUN BARO EN-CLOSHRE. C. **  **REMARKS:  ***********************************
Delivered By: (Circle One) ampler - UPS - Bus - Other:	Ircle One) Observed Temp. °C Bus - Other: Corrected Temp. °C	Semple Condition Cool Intact Cool Intact Yes 3 Yes No 1 No 1 No	(Initials)  CHECKED BY: Turnaround Time:  FIRAY TAT  Thermometer ID #1  Correction Factor 4

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Sampler - UPS - Bus - Other: Corrected Temp. °C 3.9	Time:	1 Time: 408	whell Cardinal be liable for incidental or consequential damages, including war arising out of or related to the performance of services harewader by Card By:  Date: /	LLASE NOTE: Labelly and Damagers. Cardinal's tability and delerity acutaway remody for any claim and training and Damagers. Cardinal's tability and delerity acutaway remody for any claim and training and any other cause whateverse shall be deemed was makened.	0-0104-05	-39 (1	60	(6 SB-38(1.5-2.0') X	-	58-37(	(3) 5/3-6(1.5-2.0') X		(G) RAB OR # CONTAINED.	(C)OMP.		Sampler Name: BRAD ALKEA	1		Phone #:(1/5) 504 -2873 Fax #:	City: 5AN ANGELO State: TX Zip:	Address: Po Box 5336	Project Manager: PON DUNBAR	
Sample Condition CHECKED BY: Cool Intact (Initials) Pres 7 yes No No		in filles	nerso werve unsess made a writing and received by Cardinal within 30 days after completion of the thout amitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries final, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ther brised in contract or fort, shall be limited to the amount pe	*	×;	×7	<- <u>/</u>	XX-	X-	X	X	GROUNDW/ WASTEWAT SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	ATER ER	MATRIX PRESERV. SAM	Phone #:(//5/704 - 24 / 5	State: TX Zip: 76902	City: SAN ANGERO	Address: PO BOX 5		Company: EN-CLOSHRE	P.O.#: N/A	The same of the sa
Turnaround Time: Standard   Standard   Bacteria (only) Sample Condition  Fig. 7 A   Rush   Cool Intact Observed Temp. °C  Thermometer    Ther		All Results are emailed. Please provide Email address:  REMARKS:	edion of the applicable subsidiaries, cothenelies.	1000 C - 0N /+0 W	XX	1	0955 X X	××	1	XX	0910 ON HOLD DESCRIPTION SAMPLE RESULTS	0910 X X 0160	PH - CHLOR BIEX TPH -	904 -10ES -80	21	3 m 8	4:	500	336	-B	H	70	

SLUDGE OTHERS SEID DATE TIME  PLANDING SHARLOW SAMPLE RESULTS  ACCIDENCE ON HOLD PANDING SHARLOW	5-2.0')  5-2.0')  5-2.0')  5-2.0')  5-2.0')  5-2.0')  5-2.0')  5-2.0')  5-2.0')  5-2.0'  5-2.0'  5-2.0'  Constitute manely for any claim salising whether belied in contract any other cause whether whether whether whether belied in contract any other cause whether whether whether belied in contract any other cause whether whether whether belied in contract any other cause whether whether whether belied in contract any other cause whether whether whether belied in contract any other cause whether wh	SB-446  SB-446  SB-446  SB-446  SB-456  SB-456
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## 101 East Marland, Hobbs, NM 88240

	nges to celey.keene@c	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	† Cardinal cannot a	
Standard Bacteria (only) Sample Condition  T/K/Rush Cool Intact Observed Temp. °C  13  Yes Yes No Corrected Temp. °C	Turnaround Time: 5 PAY TAY Thermometer ID #113 Correction Factor -0.6°C	Sample Condition CHECKED BY: Cool Intact (Initials) Yes Yes No No	Sampler - UPS - Bus - Other: Corrected Temp. °C 3.3	Sampler - UPS
			Time:	
	REMARKS:	Received By:	Mar Time:	Relinquished By:
Yes □ No Add'I Phone #:	Verbai Result: ☐ Yes	Received By:	01 Date:	Kelinquished by
	client, its subsidiaries, easons or otherwise.	ess interruptions, loss of use, or loss other such claim is based upon any	dinal be liable for incidental or consequental damages, including wit out of or related to the performance of services hereunder by Carri	affiliates or succes
	aid by the client for the er corncletion of the applicable	ising whether besed in contract or tort, shall be limited to the amount paid along unless made in writing and received by Cardinal within 30 days after	The: Calony and Danages, Cardina's labelly and client's exclusive remedy for any claim an claims including those for negligence and any other cause whatsoever shall be deemed we	analyses. All clain
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	SAMPLING	MATRIX PRESERV. SAM		FOR DISCORLY
ZI	03	Fax #:	er Name: BLAD ALICER	Sampler Name:
82		Phone #: (713)524 -2873	IN CON	Project L
		State: TX Zip: 76902	* Name: SAND PUNES 4	Project Name:
		City: SAN ANGELO	t井: Project Owner:	Project #:
8/2	336	Address: Po Box 5	Phone #: (7)3)504 - 2873 Fax #:	Phone #:
23		76902 Attn: DON DUNBAR	TAN ANGELO State: TX Zip:	City: 51
7	osyre, ile	Company: EN-CLOSHRE	85: PO BOX 5346	Address:
	1	P.O.#: N/A	Project Manager: PON DINBAR	Project N
ANALYSIS REQUEST		BILL TO	Company Name: EN-CLOSURE, LLC	Company
0/0			(575) 393-2326 FAX (575) 393-2476	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Sampler - UPS - Bus - Other:	Relinquished By:  Delivered By: (Circle One)	Brad Alber	ent shall Cardinal be liable for incidents resors arising out of or related to the pe hed By:	PLEASE NOTE: Liability and Damages. Cardinal's lab analyses. All claims including those for neglicence and	9 58-55/0-	B-54/1.5	47 513-5460-	45 53-53 0-0.	58-52(	58-52(0-	2-010-51	113	Lab I.D. Samp	CONTRACTOR OFFICE	FOR LARIESE DAY	W. LOVI	An	Project #:	Phone #: (7)3) 504 -2873	City: 7AN ANGELO	Address: Po Box 5336	Project Manager: PON DAN	Company Name: KN-CLOSUKE
Corrected Temp. °C		C4/05/23	all or consequental damages, including a erformance of services hereunder by Ca		0.5')	-2')	0.5.)	0.5.)	-2.0')	0.5)	いい		Sample I.D.		111688	N.M.	h 520	Project Owner:	3 Fax #:	State: TX	6	DUNBAR	ure, LLC
Sample Condition Cool Intact Yes Tyes No No	ceived	This was the	over areas on destroid vested unless made in writing and received by Cardinal within 30 days after completion of the appli ges, including without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subuldaries, areament by Cardinal, repartitiess of whether such claim is based upon any of the above stated reasons or otherwise.  Received Alexanders	y claim arising whether based in contract or lort	X	X	< <del>×</del>	X - X	X - X-	×>	< <del>/</del>	# COI GROU WAST SOIL OIL SLUD	-	IP. MATRIX	L					Zip: 76902			
CHECKED BY: (Initials)	\$		of received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subaddaries is based upon any of the above stated reasons or differences.	ort, shall be limited to the amount pai	×>	<	×	X	×1	<b>X</b> *	X (04/04/2)	OTHE ACID/O ICE / O OTHE	BASE:	PRESERV. SAN	Fax#:	Phone #: (7:3)504 -2873	State: TX Zip: 76902	City: SAN ANGELO	Address: PO BOX K336		pan		BILL TO
Turnaround Time: 5 DAY TAS Thermometer ID #113 Correction Factor -0.8°C	REMARKS:	All Results are emailed. F	8	paid by the client for the	1125 XX	130 X X	1	K	17	1105 100	X 5011	TIME	+ - 90 YLORIDE	SAMPLING			20			1	DI EUNSC		
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Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  Wes Yes  No No Corrected Temp. °C		idress:	,							2 SHALLOW SYMET												OIG NEWOEGE	-
ຳ ດໍ				7					1	ns323											1		1

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Brad Alber	service. In no event shall Cardinal be liable for incidental or cor affliates or successors arising out of or related to the performa-	PLEASE NOTE: Liability and Damages. Canalyses. All claims including those for ne	58	SP	SB	505	50%	58 83	5 56-1	H03/50H	Lab I.D.	FOR IAB USE ONLY	Sampler Name: />/-/13)	J. 20	Project Name: SAND	Project #:	Phone #:(7)3)504-2873	City: 5AN ANGELO	Address: Po Box	Project Manager: PON	Company Name: KN
Observed Temp. °C her: Corrected Temp. °C	Date:	04/5/23 Time: 05	for incidental or consequental damages, ted to the performance of services hereu.	billy and Damages. Cardinat's lability and client's autoubre remody for any cliniculum through the magnetic and any other cause whatsoever shall be deep including those for negligance and any other cause whatsoever shall be deep	(0-0.5')	(1.5-21)	V	4.0.5%	(0-0.5)	(1.5-2.01)	(8.0-0)	156	Sample I.D.		IN ALICER	-	12 SANDER	Project Owner:	-2873 Fax#:	LO State: TX	5336	DINBAR	-CLOSURE, LLC
Sample Condition Cool Infact Cool Infact Pes Pres	Received By:	Manual II	ation, business interruptions, indiess of whether such claim	arriedy for any claim arising whether based in contract or bort, shall be er shall be deemied waterd unless made in writing and seconduct by Co.	X	XX	(X)	X ×	X X	X	7 ×	# CONT						her:		( Zip: 76902			
CHECKED BY: (Initials)	January Marine	The state of the s	f use, or los ed upon an	t shad be if	/	4	X	XX	< X :	X	1 (40/140 X	OTHER ACID/BA ICE / CC OTHER	ASE: DOL	PRESERV. SAM	Fax #:	Phone #: (7:3)54 -	State: TX Zip: 76902	City: SAN ANGELO	Address: PO BOX 53		Company: EN-CLOSHAR	P.O. #: N/A	BILL TO
Turnaround Time: 5 DAY TAT Thermometer ID #113 Correction Factor - 0.6°C	REMARKS:	All Results are email	appacatie	id by the client for the						>	1130 V V	PH.		SAMPLING		-2873			36		SHAZ, LLC		
Standard		Yes ☐ No Add'i Phone #: iled. Please provide Email address:								01/10/P	XX	BTE		202	1		261		CL	-B			
Bacteria (only) Cool Intact		Add'l Phone #: ide Email address:	1							REMDIALG S		CC	aa	de		/	4/2	20/	23	7	70		ANALYSIS RE
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Pet Yes			,							Annow SAN											1		REQUEST
ñ				7						2361 2160													•

## **WATER WELL RECORD**



OSE DIT DEC 21 2022 PM3:17

C	OSE POD NO. (W C-04687- POI	1			VELL TAG ID NO	,		OSE FILE NO(S C-04687						
	WELL OWNER NO OXY USA IN							PHONE (OPTIO 575-390-282						
	WELL OWNER N O BOX 4294		ADDRESS					HOUSTON		TX 77210	ZIP			
	WELL	LAT	DI	EGREES 32	MINUTES 13	SECOND 41.99		* ACCURACY	REQUIRED: ONE TENT	TH OF A SECOND				
	(FROM GPS)	LON	NGITUDE	-103	43	55.00		777	QUIRED: WGS 84					
	DESCRIPTION F UNDANCE		IG WELL LOCATION TO 1-1 SWD	STREET ADDRE	SS AND COMMO	N LANDMAR	KS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE				
1	LICENSE NO. WD-118	4	NAME OF LICENSED		L SOUTHER	RLAND			NAME OF WELL DRI WEST TEXAS	ILLING COMPANY WATER WELL SEI	RVICE			
1	DRILLING STAR 11/29/202	TED	DRILLING ENDED 11/29/2022	DEPTH OF COM			ORE HO	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT)				
	COMPLETED W		ARTESIAN	DRY HOLE		ow (uncon	FINED)		STATIC WATER LEV	VEL IN COMPLETED WE	ELL (FT)			
1	DRILLING FLUI	):	✓ AIR	MUD	ADDITI	VES – SPECII	Y:		,		_			
_	DRILLING METI		ROTARY	HAMMER	CABLE	TOOL	ОТН	ER – SPECIFY:						
	DEPTH (fee		BORE HOLE	10.777307.0093	ATERIAL AN GRADE	D/OR		ASING	CASING	CASING WALL THICKNESS	SLO			
	FROM	то	DIAM (inches)		ch casing string ctions of screen			NECTION TYPE bling diameter)	INSIDE DIAM. (inches)	(inches)	(inch			
				NO CA	SING IN HOL	Æ								
-							-							
	DEPTH (fee	et bgl)	BORE HOLE	LIS	Γ ANNULAR S	SEAL MAT	ERIAL	AND	AMOUNT	метно	DD OF			
	FROM	то	DIAM. (inches)	GRAV	EL PACK SIZ	E-RANGE I	BY INT	ERVAL	(cubic feet)	PLACE				
						N/A								
-														
	OSE INTERNA					WR-20 WELL RECORD & LOG (Version 04/30/19) TRN NO. 739086								
2.1	NO. C-6	746	87		POD N	IO. 1		TRN	NO. 1590	086				

	DEPTH (feet bgl)			COLOR AN	D TYPE OF M	OF MATERIAL ENCOUNTERED -			WATER		ESTIMATED	
HYDROGEOLOGIC LOG OF WELL	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)				S BEA	RING? S / NO)	YIELD FOR WATER- BEARING ZONES (gpm)		
	0	6			RED	SAND			Y	✓ N		
	6	13			SANDY	CALICHIE			Y	✓ N		
	13	20			RED SA	NDY CLAY			Y	✓ N		
	20	75		RED	CLAY W/ SA	NDSTONE	STREAK	S	Y	✓ N		
	75	105			SAND, S.	ANDSTONI	3		Y	✓ N		
	105	110			REDE SAND	W/ LIMEST	ONE		Y	✓ N		
									Y	N		
OF									Y	N		
90									Y	N		
ICI									Y	N		
507									Y	N		
EO									Y	N		
ROC									Y	N		
HYD									Y	N		
4									Y	N		
									Y	N		
									Y	N		
									Y	N		
									Y	N		
									Y	N		
									Y	N		
	METHOD USED TO ESTIMATE YIELD			OF WATER-BEARIN	G STRATA:				TOTAL EST	IMATED	5000000	
	□ PUMP □ AIR		AIR LIFT	LIFT BAILER OTHER - SPECIFY: DRY HOLE				WELL YIEL	.D (gpm):	0.00		
Z	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DAT ME, AND A TABLE SI	TA COLLECTE HOWING DISC	D DURING	WELL T	TESTING, INC	CLUDING DIS ER THE TEST	CHARGE I	METHOD, DD.	
NOISL										C 21 202	2 PM3:17	
TEST; RIG SUPERVI	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:											
S.	RUSSELL SOUTHERLAND											
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.  RUSSELL SOUTHERLAND  11/29/2022											
9	SIGNATURE OF DRILLER / PRINT SIGNEE NAME									DATE		
FO	R OSE INTER	NAL USE						WR-20 WE			rsion 04/30/2019	
FIL	ENO.	-046	87		POD NO.	1		TRN NO.	7390	186		
LO	CATION 7	144	31 E . 12.	4.2.3			WELL	TAG ID NO.			PAGE 2 OF 2	

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

District II

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

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

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

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

CONDITIONS

Action 234202

## **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	234202
	Action Type:
	[C-141] Release Corrective Action (C-141)

## CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/19/2023