Form C-14 by OCD: 2/13/2023 7:53:21 State of New Mexico

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Oil Conservation Division

Incident ID	nOY17066314 age 1 of 64
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>73</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🖾 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖾 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗋 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-14 by OCD: 2/13/202	3 7:53:215 the of New Mexico	Incident ID	nOY170663144ge 2 of 64
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age +		Facility ID	
		Application ID	
regulations all operators are requ public health or the environment failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name: James Smith_ Signature: email: JSmith@foundationer	tion given above is true and complete to the best of ired to report and/or file certain release notification t. The acceptance of a C-141 report by the OCD do and remediate contamination that pose a threat to gr C-141 report does not relieve the operator of respon C-141 report does not relieve the operator of respon Date hergy.com Tele	es not relieve the operator of liability sh oundwater, surface water, human health	nould their operations have n or the environment. In ederal, state, or local laws
OCD Only Received by:		Date:	

Received by OCD: 2/13/2023 7:53:21 State of New MexicoPage 5Oil Conservation Division

Incident ID	NOY 12060 Prage 3 of 64
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Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must b	e included in the plan.							
Detailed description of proposed remediation technique								
Scaled sitemap with GPS coordinates showing delineation points								
 Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29. 	12(C)(4) NMAC							
Proposed schedule for remediation (note if remediation plan tim								
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility							
Extents of contamination must be fully delineated.								
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.							
I haraby partify that the information given above is true and complete	te 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 accepta	ance of a C-141 report by the OCD does not relieve the operator of							
liability should their operations have failed to adequately investigat surface water, human health or the environment. In addition, OCD	e and remediate contamination that pose a threat to groundwater, 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: James Smith	Title: HSE-Regulatory Superviso							
Signature:	Date: 2/13/2023							
email: jsmith@foundationenergy.com	Telephone: 972-707-2595							
OCD Only								
Received by: Jocelyn Harimon	Date:02/13/2023							
\square Approved \checkmark Approved with Attached Conditions of	Approval Denied Deferral Approved							
Signature: Huttan Hall	Date: 2/13/2023							

Conditions of approval: 1. Confirmation samples must be representative of no more than 400 square feet.

CHALUPA #4 SWD – NORTH RELEASE AREA Remediation Action Plan

NMOCD Incident No. nOY1706631442 UL "L", Sec. 13, T14S, R33E 33.103422°, -103.576112° Lea County, New Mexico

January 30, 2023



PREPARED ON BEHALF OF

Foundation Energy Management 1801 Broadway Suite 1500 Denver, CO 80202



PREPARED BY

Tasman, Inc. 2620 W. Marland Blvd. Hobbs, NM 88240





January 30, 2023

Foundation Energy Management, LLC 1801 Broadway, Suite 1500 Denver, Colorado 80202

Attn: Mr. James Smith Email: <u>ismith@foundationenergy.com</u>

Re: Remediation Action Plan
 Chalupa SWD #4 – North Release Area
 UL "L", Section 13, Township 14 South, Range 33 East
 Lea County, New Mexico
 NMOCD Incident No. nOY1706631442
 Tasman Project No. 4951

Dear Mr. Smith,

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the above referenced site. Site assessment activities were executed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning the delineation of releases of produced water to the environment.

Tasman appreciates the opportunity to provide environmental services to Foundation Energy Management. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Sincerely, Tasman, Inc.

Brett Dennis Senior Environmental Scientist bdennis@tasman-geo.com Kyle Norman Regional Project Manager <u>knorman@tasman-geo.com</u>



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Appendix A – Initial Form C-141 and NMOCD Notifications

Appendix B – Photographic Log

Appendix C – Certified Laboratory Analytical Reports



1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the Chalupa #4 SWD – North Release Area (Site) on behalf of Foundation Energy Management, LLC (FEM), documenting the results of field activities conducted in response to a release of natural gas and natural gas condensate to environmental media.

1.1 Site Description

The Site is located in Lea County, New Mexico in Unit Letter "L", Section 13, Township 14 South, Range 33 East and the approximate coordinates are 33.103422, -103.576112 (Figure 1). The Site is located approximately 0.3 miles south of State Highway 108 (Anderson Road) in a rural area on New Mexico State Trust Lands administered by the New Mexico State Land Office (NMSLO) and leased to Norman and Elwanda Hahn Ranches, LTD for agriculture use. The nearest town of Lovington, New Mexico is located approximately 16 miles southeast of the Site.

1.2 Site History

On March 2, 2017, FEM discovered a release of produced water at the Site from a leak that developed in the pipeline connecting FEM's tank battery to the Chalupa #4 injection well. The release occurred at the Site as displayed on Figure 2, which is approximately 600-feet south of the tank battery location. Approximately 25 barrels (bbls) of saltwater were released to the ground surface and approximately 15 bbls were recovered.

On March 6, 2017, FEM submitted a Release Notification Corrective Action Form C-141 to the NMOCD for the release and the NMOCD established a maximum permissible chloride concentration in soil of 600 milligrams per kilogram (mg/kg). A copy of the form C-141 is attached as Appendix A. On behalf of FEM, Enviro Clean Cardinal, LLC (ECC) performed initial Site investigation activities which included a walkover survey using an EM-38 electrical conductivity (EC) meter and soil boring activities to delineate the horizontal and vertical extents of chloride impacts. As presented in the Release Characterization Report that was submitted to the NMOCD on February 16, 2018, the lateral extent of chloride impacts at the Site covered approximately 1.76 acres and a depth of 9 to 14 feet below ground surface (bgs).

Subsequent to the initial response and investigation activities described above, FEM retained Tasman to conduct additional Site assessment, remediation, and reclamation activities at the Site within the root zone between the surface and 4 feet bgs as described in the Remediation Work



Plan, which was approved by the NMOCD on June 6, 2018, and by the NMSLO on June 8, 2018.

Between May 8 and 19, 2019, chloride impacted soil excavation activities were initiated within the release area between the surface and approximately 4 feet bgs. Approximately 9,013 cubic yards (yd³) of chloride impacted soil were transported under waste manifest procedures to an NMOCD approved disposal facility (Gandy Marley Inc.) located near Caprock, New Mexico. On May 22, 2019, prior to backfilling activities, a 20-millimeter thick linear low-density polyethylene (LLDPE) sealed liner manufactured by Raven Industries, Inc. was installed at the base of the excavation area. On May 23, 2019, approximately 7,538 yd³ of sand were backfilled in the excavation to a depth of 18 inches bgs and approximately 2,897 yd³ of clean topsoil were backfilled and compacted within the disturbed area to match the previous grade. Imported fill material, including sand and topsoil, was sourced from Gandy Marley, Inc., located in Lea County, New Mexico.

On June 6, 2019, the NMSLO approved an amended seed mixture to be used at the Site and on September 11, 2019, prior to heavy precipitation events that were forecasted for the area, reseding activities were performed at the Site using a tractor with a drop seed tiller. During a Site visit on October 8, 2019, to observe vegetation re-growth at the Site, Tasman personnel observed sprouted seedlings throughout the disturbed area indicating that the re-seeding effort has successfully propagated vegetation at the Site.

On December 23, 2019, FEM submitted a *Remediation and Reclamation Summary Report*, dated October 29, 2019, to the NMOCD summarizing remedial efforts at the Site.

On October 19, 2022, the NMOCD provided email notification to FEM indicating that the submitted Report was rejected and additional confirmation sampling was required for Site closure.

2.0 CONFIRMATION SOIL SAMPLING

On November 11, 2022, Tasman mobilized to the Site to collect confirmation soil samples in accordance with NMOCD email correspondence, dated October 31, 2022. Thirty (30) soil borings were advanced using a hand auger along the perimeter of the former excavation area. Soil samples were collected continuously to a depth of approximately 4 feet bgs. Composite soil samples were collected from each boring across a total area of 200 square feet. Additionally, four discrete soil samples were collected from the backfill material of the former excavation at a depth of 3.5 feet bgs. Samples were collected above the liner to prevent damage to the existing liner.



Sample locations are illustrated on Figure 2 and a photographic log is provided in Appendix B.

2.1 Soil Sampling Procedures for Laboratory Analysis

The collection of soil samples for laboratory analysis was conducted in accordance with NMOCD criteria and generally approved industry standards. Collected soil samples were placed in laboratory provided containers, properly labeled, and preserved on ice pending delivery under a chain of custody form to Cardinal Laboratory in Hobbs, New Mexico.

2.2 Soil Analytical Methods

Each soil sample was analyzed using Environmental Protection Agency (EPA) or other NMOCDapproved methods. Laboratory analytical methods are as follows:

- Chloride EPA Method SM4500.
- Total petroleum hydrocarbons (TPH) gasoline, diesel, and motor/lube oil range organics (GRO+DRO+MRO) – EPA Method 8015M Extended.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) EPA Method 8021B.

2.3 Confirmation Sampling Data Evaluation

BTEX and TPH were not detected above laboratory sample detection limits (SDLs) in the soil samples submitted for analysis.

Concentrations of chlorides were detected above the NMOCD Action level of 600 milligrams per kilogram (mg/kg) in nine of the 30 confirmation wall samples. Samples exceeding the NMOCD Action level include CS-3 (1,300 mg/kg), CS-5 (832 mg/kg), CS-7 (1,120 mg/kg), CS-8 (656 mg/kg), CS-11 (688 mg/kg), CS-16 (848 mg/kg), CS-17 (76 mg/kg), CS-22 (1,840 mg/kg), and CS-23 (784 mg/kg). Each of the samples collected from within the backfill material were below the NMOCD Action Level.

Soil analytical data is summarized in Table 1 and laboratory reports are provided in Appendix C.

3.0 ADDITIONAL ASSESSMENT

On December 27 and 28, 2022, Tasman mobilized to the Site to further delineate remaining



chlorides impacts in the area of exceedances observed during the November 2022 confirmation sampling event. A total of 20 soil borings (HA-1 through HA-15, BG-1) were advanced using a hand auger to a depth of 4 feet bgs or geologic refusal. Sample locations are illustrated on Figure 2.

3.1 Delineation Data Evaluation

Horizontal and vertical delineation of chlorides greater than NMOCD criteria was achieved in all boring locations, with the following exceptions:

- Boring locations HA-1 (8,960 mg/kg) and HA-1A (960 mg/kg) were not vertically delineated due to reaching geologic refusal with the hand auger at 0.5 feet bgs.
- Boring locations HA-11 and HA-11A did not achieve vertical or horizontal delineation. Concentrations of chlorides were detected at 1,120 mg/kg and 1,310 mg/kg, respectively to geologic refusal with the hand auger at approximately 3 feet bgs.

Soil analytical data is summarized in Table 1 and laboratory reports are provided in Appendix C.

4.0 PROPOSED ACTION PLAN

Based on Site characterization data collected to date, as well as the directives provided by NMOCD, Tasman has developed the following proposed action plan. It is recommended that this action plan is presented to NMOCD prior to field mobilization to confirm that the proposed approach is sufficient and acceptable to achieve Site closure.

4.1 Delineation Data Evaluation

Tasman proposes to perform additional characterization of the areas that horizontal delineation was not achieved during the November and December 2022 assessment events. Due to challenging geologic conditions, delineation will be conducted by advancing vertical trenches using mechanical equipment. The extent of remaining chloride impacts will be estimated using real-time chloride screening data, collected using a field titration kit.

Once the approximate extent of remaining horizontal impacts is determined, Tasman will excavate the remaining chloride impacted soils to a depth of no greater than 4 feet bgs. If vertical delineation results indicate that chloride concentrations exceed NMOCD Action Levels at a depth of greater than 4 feet bgs, a 20-millimeter thick LLDPE sealed liner will be installed at the base of the excavation to inhibit the leachability of chlorides to groundwater. To the extent practical, the new liner will be attached to



the existing liner installed in 2019.

Once the delineated area has been remediated Tasman will collect 5-point composite soil samples of the sidewalls not to represent more than 500 square feet. If extension of the existing liner is not warranted, 5-point composite samples will also be collected from the base of the excavation and not represent more than 500 square feet. Soil samples will be collected and submitted for laboratory analysis for chlorides only by EPA Method SM4500 following the sampling procedures in Section 2.

4.2 Reclamation and Revegetation

Once analytical data indicates that remediation objectives have been met, the excavation area and any additional areas affected by the release will be restored to the condition which existed prior to disturbance to the maximum extent practical. The excavation will be backfilled with clean import material. Import material will be sampled prior to backfilling to confirm the absence of organic and inorganic impacts. The Site will be regraded to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The NMSLO (surface owner) will be consulted for their preference in native seed mix. Upon NMSLO approval the area will be seeded using the approved seed mixture during the next favorable growing season. The seed mix will be broadcast at a rate two times the suggested amount to ensure the greatest likelihood for sufficient germination. The seed will be "set" using mechanical mean (e.g., screen or disc harrow) following the seeding event.

5.0 REQUEST FOR CLOSURE

Upon completion of remediation and sampling activities, a final summary report will be prepared and submitted to NMOCD requesting Site closure.

FIGURES





TABLES

TABLE 1 CONFIRMATION SOIL ANALYTICAL SUMMARY - TPH, BTEX, AND CHLORIDES Foundation Energy Management, LLC Chalupa #4 SWD - North Release Area

	Sample		Soil	PID	Field Chloride	Benzene	Total BTEX ¹	TPH ² (mg/kg)				Chrloride ³
Sample ID	Depth (bgs)	Sample Date	Status	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TOTAL	(mg/kg)
					Wa	III Confirmation	Soil Samples		-	•		
CS - 1		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS - 2		11/21/2022	In-Situ									32.0
CS - 3		11/21/2022	In-Situ									1,300
CS - 4		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS - 5		11/21/2022	In-Situ									832
CS - 6		11/21/2022	In-Situ									336
CS - 7		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,120
CS - 8		11/21/2022	In-Situ									656
CS - 9		11/21/2022	In-Situ									160
CS - 10		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	368
CS - 11		11/21/2022	In-Situ									688
CS - 12		11/21/2022	In-Situ									32.0
CS - 13		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
CS - 14		11/21/2022	In-Situ									32.0
CS - 15		11/21/2022	In-Situ									224
CS - 16		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	848
CS - 17		11/21/2022	In-Situ									976
CS - 18		11/21/2022	In-Situ									320
CS - 19		11/21/2022	In-Situ			<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS - 20		11/21/2022	In-Situ									288
CS - 21		11/21/2022	In-Situ									464
CS - 22		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	1,840
CS - 23		11/21/2022	In-Situ									784
CS - 24		11/21/2022	In-Situ									560
CS - 25		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS - 26		11/21/2022	In-Situ									16.0
CS - 27		11/21/2022	In-Situ									32.0
CS - 28		11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS - 29		11/21/2022	In-Situ									48.0
CS - 30		11/21/2022	In-Situ									16.0
						Backfill Soil S	amples					
BF - 1	3.5'	11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BF - 2	3'	11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	384
BF - 3	3.5'	11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	400
BF - 4	3.5'	11/21/2022	In-Situ			<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
	NMOCD Ac	ction Levels ⁴		N/A	N/A	10	50		N/A		100	600

Notes:

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B

2. TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)

3. Chloride - Analyzed by EPA method SM4500

4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))

* = Denotes discrete/grab sample. All other samples are five-point composites

N/A = Not applicable

Bold values denote concentrations above laboratory SDL

Red values denote concentrations above NMOCD Action Levels

BGS = Below ground surface

GRO = Gasoline range organics

DRO = Diesel range organics

MRO = Motor/lube oil range organics

PID = Photoionization detector

--- = Sample was not analyzed for this analyte

<SDL = The analyte was not detected above the laboratory sample detection limit (SDL)

TABLE 2 DELINEATION SOIL ANALYTICAL SUMMARY - CHLORIDES Foundation Energy Management, LLC Chalupa SWD #4 - North Release Area

					1
Sample ID	Sample	Sample Date	Soil	Field Chloride	Chrloride ¹
	Depth (bgs)		Status	(mg/kg)	(mg/kg)
		Confirmation V	Vall Soil Samp	les	
HA-1	0-0.5	12/27/2022	In-Situ	7,186	8,960
HA-1A	0-0.5	12/27/2022	In-Situ	1,030	960
HA-1B	0-0.5	12/27/2022	In-Situ	60	16.0
HA-2	0-0.5	12/27/2022	In-Situ	122	
114 2	0.5-1	12/2//2022	In-Situ	211	
HA-3	0-0.5	12/28/2022	In-Situ	660	624
IIA-3	0.5-1	12/20/2022	In-Situ	1,030	100
HA-3A	0-0.5	12/27/2022	In-Situ	202	
114 34	0.5-1	12/2//2022	In-Situ	281	272
	0-0.5		In-Situ	60	
HA-4	0.5-1	12/27/2022	In-Situ	61	80.0
	1-2		In-Situ	90	
	0-0.5		In-Situ	65	
HA-5	0.5-1	12/27/2022	In-Situ	58	112
HA-5	1-2	12/27/2022	In-Situ	88	
	2-3		In-Situ	59	
	0-0.5		In-Situ	60	
	0.5-1		In-Situ	61	48.0
HA-6	1-2	12/27/2022	In-Situ	61	
	2-3	1	In-Situ	180	
	3-4	1	In-Situ	234	
	0-0.5		In-Situ	69	
HA-7	0.5-1	12/27/2022	In-Situ	58	32.0
	1-2	, , -	In-Situ	60	
	0-0.5		In-Situ	61	
HA-8	0.5-1	12/27/2022	In-Situ	57	32.0
	1-2	, _ ,	In-Situ	58	
	0-0.5		In-Situ	59	
	0.5-1		In-Situ	59	32.0
HA-9	1-2	12/27/2022	In-Situ	60	52.0
	2-3		In-Situ	59	
	0-0.5		In-Situ	61	
	0-0.5			61	
HA-10	1-2	12/27/2022	In-Situ In-Situ	1,664	
11A-10		12/2//2022			1,600
	2-3 3-4		In-Situ	1,601	224
			In-Situ	369	
	0-0.5	1	In-Situ	60	224
HA-10A	0.5-1	12/28/2022	In-Situ	145	
	1-2	1	In-Situ	59	
	2-3		In-Situ	58	
	0-0.5	1	In-Situ	60	
HA-11	0.5-1	12/27/2022	In-Situ	61	
	1-2		In-Situ	1,572	1,150
	2-3		In-Situ	1,196	1,120
	0-0.5		In-Situ	60	
HA-11A	0.5-1	12/28/2022	In-Situ	182	
	1-2	. ,	In-Situ	1,584	1,570
	2-3		In-Situ	1,078	1,310
	0-0.5		In-Situ	61	
HA-12	0.5-1	12/27/2022	In-Situ	59	
	1-2		In-Situ	559	480
	0-0.5	l	In-Situ	62	
HA-13	0.5-1	12/27/2022	In-Situ	57	
	1-2		In-Situ	153	160
HA-14	0-0.5	12/27/2022	In-Situ	59	32.0
114-14	0.5-1	12/2//2022	In-Situ	61	
UA 15	0-0.5	12/27/2022	In-Situ	61	176
HA-15	0.5-1	12/27/2022	In-Situ	242	
BG-1	0-0.5	12/27/2022	In-Situ	60	
		tion Levels ²		N/A	600

Notes:

1. Chloride - Analyzed by EPA method 300

2. New Mexico

 nil
 * = Denotes discrete/grab sample. All other samples are five-point composites N/A = Not applicable

--- = Sample was not analyzed for this analyte

Bold values denote concentrations above laboratory SDL

Red values denote concentrations above NMOCD Action Levels

APPENDIX A – INITIAL FORM C-141 AND NMOCD NOTIFICATIONS

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8750	5	Sa	nta F	e, NM 875	505					
			Rel	ease Notific	atio	n and Co	orrective A	Acti	on		2	
						OPERA '	ГOR		🔳 Initia	al Report		Final Report
Name of Company Foundation Energy Management, LLC						Contact Rach	el Grant					
Address 160	00 Dallas Park	way, Suite 875					No. 918-526-5592					
Facility Na	me Chalupa S	SWD				Facility Typ	e Salt water dispos	sal well				
Surface Ow	ner		8	Mineral O	wner				API No	. 30-025-2918	4	
						N OF RE	FASE		I			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	Ea	st/West Line	County		
Jint Lotter	13	14S	33E		Sou	a more analysis and a second	330		/est		.ea	
	13	143							651		.00	
			La	titude <u>33.0982</u>	437	Longitud	le103.5753	937	_			
× ,				NAT	URE	OF REL	EASE					
Type of Rele	ase Saltwater						Release 25 bbls		the second se	Recovered 15		
Source of Re							Iour of Occurrer	nce	Date and	Hour of Dis	covery	3/2/2017, 2:30pm
Was Immedi	ate Notice (Yes 🔳	No 🗌 Not Re	quired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Vas a Water	course Read	ched?		_		If YES, Vo	olume Impacting	, the V	Vatercourse.	1.A		
			Yes 🗖	No						JA	ар 	
f a Waterco	urse was Im	pacted, Descr	ibe Fully.	* NA		RECE						
				INA		RECE	VED					
						By Oliv	ria Yu at a	8:4	7 am, Ma	ar 07, 2	2017	7
	00.11	1.0	1.1.1	70 1 · · ·								
Describe Cai	ise of Probl	em and Reme	dial Actio		ber ir	stalled re	pair clamp	to fi	x leak unt	il line ca	n be	
	. 8						ruck picked					
							•	•				
Describe Are	a Affected	and Cleanup	Action Tal	cen.*								
565011007110	a milotod	una orounap i		Scheduli	ng fl	owline rep	oair. Once f	lowl	ine is repa	aired, rer	naini	ng
*				flowline v	will b	e pressur	e tested to	ens	ure no futi	ure leaks	S.	
hereby cert	ify that the	information g	iven above	e is true and compl	ete to t	the best of my	knowledge and	under	stand that purs	uant to NM	OCD ru	iles and
egulations a	ll operators	are required t	o report a	nd/or file certain re	elease r	notifications a	nd perform corre	ective	actions for rele	eases which	may en	danger
bublic health	or the envi	ronment. The	e acceptan	ce of a C-141 repo investigate and re	rt by th	ne NMOCD m	arked as "Final	Repor	t" does not reli	eve the oper	ator of	liability
or the enviro	nment. In a	ddition. NMC	CD accer	tance of a C-141	report of	loes not reliev	the operator of	f respo	onsibility for c	ompliance wa	ith any	other
ederal, state	, or local la	ws and/or reg	ulations.		- F		F	I	,	1		
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lianatura	K	IT								M	_	
Signature:	Une	J				Ammorred by	Environmental	Space	aliate			
rinted Nam	_{e:} Rache	el Grant				Approved by	Environmental	Specia		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
_{Fitle:} HSE	Regul	atory Ma	inager			Approval Da	te: 3/7/201	7	Expiration	Date:		
E-mail Addr	_{ess:} regul	atory@fo	oundat	ionenergy.c	om	Conditions of	f Approval:			A.U. 1 1	/	/
Date: 3	6/17		Phone	918-526-5	592		attached d	lirec	tive	Attached	Ц/	
Bater		ets If Necess	sarv							1		
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								117	00031444	<u></u> pC)Y17	06631752

Release

ABBENDIX B – PHOTOGRAPHIC LOG

Foundation Energy Management

Chalupa SWD #4 – North Release Area





Foundation Energy Management

Chalupa SWD #4 – North Release Area





APPENDIX C – CERTIFIED LABORATORY ANALYTICAL REPORTS



December 30, 2022

KYLE NORMAN TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 4951_CHALUPA NORTH

Enclosed are the results of analyses for samples received by the laboratory on 12/29/22 14:32.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TASMAN GEOSCIENCES	
KYLE NORMAN	
6899 PECOS ST. UNIT C	
DENVER CO, 80221	
Fax To:	

Received:	12/29/2022	Sampling Date:	12/27/2022
Reported:	12/30/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4951	Sample Received By:	Shalyn Rodriguez
Project Location:	FOUNDATION ENERGY		

Sample ID: HA - 1 (0-0.5) (H226105-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8960	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 1A (0-0.5) (H226105-02)

Chloride, SM4500Cl-B	B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 1B (0-0.5) (H226105-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 3 (0-0.5) (H226105-04)

Chloride, SM4500Cl-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/30/2022	ND	416	104	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		TASMAN GEOSCIENCES KYLE NORMAN 6899 PECOS ST. UNIT C		
		DENVER CO, 80221		
		Fax To:		
Received:	12/29/2022		Sampling Date:	12/27/2022
Reported:	12/30/2022		Sampling Type:	Soil
Project Name:	4951_CHALUPA NOR	RTH	Sampling Condition:	Cool & Intact
Project Number:	4951		Sample Received By:	Shalyn Rodriguez
Project Location:	FOUNDATION ENERG	GY		

Sample ID: HA - 3 (0.5-1) (H226105-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 3A (0.5-1) (H226105-06)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 4 (0.5-1) (H226105-07)

Chloride, SM4500CI-B	ide, SM4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 5 (0.5-1) (H226105-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 6 (0.5-1) (H226105-09)

Chloride, SM4500Cl-B	SM4500CI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/30/2022	ND	416	104	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



	K	ASMAN GEOSCIENCES YLE NORMAN 899 PECOS ST. UNIT C		
		DENVER CO, 80221		
		ax To:		
Received:	12/29/2022		Sampling Date:	12/28/2022
Reported:	12/30/2022		Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	4	Sampling Condition:	Cool & Intact
Project Number:	4951		Sample Received By:	Shalyn Rodriguez
Project Location:	FOUNDATION ENERGY	,		

Sample ID: HA - 7 (0.5-1) (H226105-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 8 (0.5-1) (H226105-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 9 (0.5-1) (H226105-12)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2022	ND	416	104	400	0.00	

Sample ID: HA - 10 (1-2) (H226105-13)

Chloride, SM4500Cl-B	B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 10 (3-4) (H226105-14)

Chloride, SM4500Cl-B	l4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/30/2022	ND	416	104	400	3.77	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



		TASMAN GEOSCIENCES KYLE NORMAN		
		6899 PECOS ST. UNIT C		
		DENVER CO, 80221		
		Fax To:		
Received:	12/29/2022		Sampling Date:	12/29/2022
Reported:	12/30/2022		Sampling Type:	Soil
Project Name:	4951_CHALUPA NOF	RTH	Sampling Condition:	Cool & Intact
Project Number:	4951		Sample Received By:	Shalyn Rodriguez
Project Location:	FOUNDATION ENER	GY		

Sample ID: HA - 10A (0.5-1) (H226105-15)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 11 (1-2) (H226105-16)

Chloride, SM4500CI-B	OCI-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 11 (2-3) (H226105-17)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 11A (1-2) (H226105-18)

Chloride, SM4500Cl-B	l-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 11A (2-3) (H226105-19)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	12/30/2022	ND	416	104	400	3.77	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



		TASMAN GEOSCIENCES KYLE NORMAN 6899 PECOS ST. UNIT C DENVER CO, 80221 Fax To:		
Received: Reported: Project Name: Project Number: Project Location:	12/29/2022 12/30/2022 4951_CHALUPA NOR 4951 FOUNDATION ENER(Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	12/28/2022 Soil Cool & Intact Shalyn Rodriguez

Sample ID: HA - 12 (1-2) (H226105-20)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 13 (1-2) (H226105-21)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 14 (0.5-1) (H226105-22)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/30/2022	ND	416	104	400	3.77	

Sample ID: HA - 15 (0.5-1) (H226105-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/30/2022	ND	416	104	400	3.77	

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Tas	Tasman Geosciences													311	BILL TO		-	-		A	NAL	ANALYSIS	RE	REQUEST	ISI	
Project Manager: Kyle Norman	le Norman								7	P.O.	*											_				
Address: 2620 W. Marland Blvd	Marland Blvd.									on on	npa	ny:	1 a	sm	Company: Tasman Geo		_	_			ns					
rite: Hohhe	State: NM	Zip: 88240	0						~	Itta	Attn: Kyle Norman	yle	No	rma	In						io		-			_
Phone #: 575-318-5017	Fax #:								-	Add	res	s: 2	620	X	Address: 2620 W. Marland					,	An			Ц		
Project #: 4951	Project Owner: Foundation	Indatio	on						_	City	City: Hobbs	bb	S					IVI		05	sli	_		10		
Project Name: 4951 Chalupa North									10	Stat	State: NM	M		9:8	Zip: 88240		des	15	Х	10	on			RL		
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Lab I.D.	Sample I.D.)RAB OR (C)OMP	# CONTAINERS	ROUNDWATER	VASTEWATER	SOIL	OIL		SLUDGE	OTHER :	ACID/BASE:	ICE / COOL		OTHER :		-		1		Т	Comple			0.	24	
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LEASE NOTE: Liability and Da ays after completion of the appli	PLEASE NOTE: Lability and Damages. Cardinal's lability and clerifs exclusive removely for any claim attribute without on contract or fort, so we without on universe or encounter of the applicable service. In no event shall Cardinal the labele for incidental or consequental damages, including without fundation, balance and interruptions, loss of yord is incurned by clerif, its subsidiaries again after completion of the applicable service. In no event shall Cardinal the inability to consequent damages, including without fundation, balance and the index of the applicable service. In our event shall cardinal the applicable services hereinder by Cardinal, regardless of whither such claim is based upon any of the above stated reasons or otherwise.	I damages s of wheth	s, inclu s, inclu	ding w h clain	n is ba	imitati sed up	on, bu	y of th	s inte	mupfic we sta	sted re	asons	use, o	rioss nerwis	of profits incurred by client e.	t, its subsidiaries										2
Service of California	Date:	Re	Received By	ed	š											Phone Result:	□ Yes		D. No	°	Ad	Add'l Phone #:	ne #:			
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tas	Tasman Geosciences			- 1	- 1	- 1	- 1		_						BILL		10					-					ANA	Y	SIS	REC	ANALYSIS REQUEST	ST		-
Project Manager: Kule Norman	le Norman								7	P.O.	#	14										-												
Address: 2620 W.	2620 W. Marland Blvd.									ğ	-p	an	Company:	Ta	sma	Tasman Geo	0					-					26	10						
riter Hohhe	State: NM	Zip: 88240							~	The second		Ky	lel	Nor	Attn: Kyle Norman	n											ior					_		
Phone #: 575-318-5017	Fax #:								-	d	fre	SS	:26	520	N.	Address: 2620 W. Marland	and	_				_						111			н			
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Sampler Name: Doug Pope	g Pope								-	ax	Fax #:													-	B	-			٦	Н	10			
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relingdished By:	PLEASE NOTE: Liability and Da days after completion of the applic affiliates or successors arising ou						23	8	R)	toouro		Lab I.D.	FOR LAB USE ONLY	Sampler Name: Dou	Project Location:	Project Name: 4951_Chalupa North	Project #: 4951	Phone #: 575-318-5017	city: Hobbs	Address: 2620 W. Marland Blvd	Project Manager: Kyle Norman	Company Name: Tas
10 12 1292 11 12 1292 11 10 12 1292 11 10 12 12 12 12 12 12 12 12 12 12 12 12 12	PEASE NOTE: Liability and Duringes. Cardinal's liability and clerifs exclusive remedy for any claim arising whethe based in notificad or fort, that be limited to the amount paid by the clerif for the unalyses. All claims including those for angigence and days after completion of the applicable services. In no event shall clarifinal be liable for incidental or consequential damages, including whost limitation, business interruptions, less of use, or tests of profits incurred by client, its subbidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.						HA-15 (0.5-1)	HA-14 (0.5-1)	HA-13 (1-2)	10 11 CT ALL		Sample I.D.		Doug Pope		Chalupa North	Project Owner: Foundation	017 Fax #:	State: NM	Marland Blvd.	le Norman	Tasman Geosciences
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November 28, 2022

KYLE NORMAN TASMAN GEOSCIENCES 6899 PECOS ST. UNIT C DENVER, CO 80221

RE: 4951_CHALUPA NORTH

Enclosed are the results of analyses for samples received by the laboratory on 11/22/22 9:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TASMAN GEOSCIENCES KYLE NORMAN 6899 PECOS ST. UNIT C DENVER CO, 80221 Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 1 (H225491-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	98.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 2 (H225491-02)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: AC		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 3 (H225491-03)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	11/22/2022	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 4 (H225491-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	83.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.2	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 5 (H225491-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 6 (H225491-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/22/2022	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 7 (H225491-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	99.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 8 (H225491-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 9 (H225491-09)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/22/2022	ND	432	108	400	0.00	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 10 (H225491-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	97.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 9	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 11 (H225491-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 12 (H225491-12)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	432	108	400	0.00	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 13 (H225491-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	85.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.4	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 14 (H225491-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 15 (H225491-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/22/2022	ND	432	108	400	0.00	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 16 (H225491-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	93.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 9	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 17 (H225491-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 18 (H225491-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/22/2022	ND	432	108	400	0.00	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 19 (H225491-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	208	104	200	2.23	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	211	106	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	90.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 20 (H225491-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 21 (H225491-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/22/2022	ND	432	108	400	0.00	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 22 (H225491-22)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	11/22/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	201	100	200	7.82	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	181	90.7	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					
Surrogate: 1-Chlorooctane	95.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 23 (H225491-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	11/22/2022	ND	432	108	400	0.00	

Sample ID: CS - 24 (H225491-24)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/22/2022	ND	448	112	400	3.64	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 25 (H225491-25)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	201	100	200	7.82	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	181	90.7	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					
Surrogate: 1-Chlorooctane	98.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 26 (H225491-26)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/22/2022	ND	448	112	400	3.64	

Sample ID: CS - 27 (H225491-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	448	112	400	3.64	

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Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 28 (H225491-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2022	ND	2.00	100	2.00	10.0	
Toluene*	<0.050	0.050	11/23/2022	ND	2.08	104	2.00	9.72	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	2.10	105	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	6.40	107	6.00	10.6	
Total BTEX	<0.300	0.300	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/22/2022	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	201	100	200	7.82	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	181	90.7	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					
Surrogate: 1-Chlorooctane	100	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: CS - 29 (H225491-29)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2022	ND	448	112	400	3.64	

Sample ID: CS - 30 (H225491-30)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/22/2022	ND	448	112	400	3.64	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: BF - 1 (H225491-31)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	2.05	103	2.00	10.6	
Toluene*	<0.050	0.050	11/22/2022	ND	2.20	110	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.15	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.54	109	6.00	10.5	
Total BTEX	<0.300	0.300	11/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	201	100	200	7.82	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	181	90.7	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					
Surrogate: 1-Chlorooctane	87.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.4	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: BF - 2 (H225491-32)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	2.05	103	2.00	10.6	
Toluene*	<0.050	0.050	11/22/2022	ND	2.20	110	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.15	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.54	109	6.00	10.5	
Total BTEX	<0.300	0.300	11/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/22/2022	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	195	97.7	200	9.92	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	184	91.9	200	6.75	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					
Surrogate: 1-Chlorooctane	80.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.8	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: BF - 3 (H225491-33)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	2.05	103	2.00	10.6	
Toluene*	<0.050	0.050	11/22/2022	ND	2.20	110	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.15	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.54	109	6.00	10.5	
Total BTEX	<0.300	0.300	11/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/22/2022	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	195	97.7	200	9.92	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	184	91.9	200	6.75	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.4	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



TASMAN GEOSCIENCES
KYLE NORMAN
6899 PECOS ST. UNIT C
DENVER CO, 80221
Fax To:

Received:	11/22/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	4951_CHALUPA NORTH	Sampling Condition:	Cool & Intact
Project Number:	4952	Sample Received By:	Tamara Oldaker
Project Location:	FOUNDATION ENERGY		

Sample ID: BF - 4 (H225491-34)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2022	ND	2.05	103	2.00	10.6	
Toluene*	<0.050	0.050	11/22/2022	ND	2.20	110	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	2.15	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	6.54	109	6.00	10.5	
Total BTEX	<0.300	0.300	11/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	84.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/22/2022	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	195	97.7	200	9.92	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	184	91.9	200	6.75	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					
Surrogate: 1-Chlorooctane	106	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	118	% 46.3-17	8						

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Notes and Definitions

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

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Project Margen Kyle Noman Gargen Status Same NM Types 18:00 Market Sci 20:00 Markt Sci 20:00 Market Sci 20:00	Company Name. Tas	Tasman Geosciences										8	BILL TO					A	NAL	ANALYSIS	R	REQUEST	
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Project Owner: Foundation Energy City: Hobs State: NM Zip: 882.40 Phone #: 575-318-5017 Phone #: 575-318-5017 Chris Flores Far Sample I.D. MATRX PRESEV CS-1 CS-1 CS-1 Date CS-2 CS-1 CS-1 CS-1 Date CS-3 CS-2 C 1 X 1 Date Q CS-3 CS-1 C 1 X 1 Initialization Q CS-3 CS-1 C 1 X 1 A 11/21/22 Q CS-3 C 1 X 1 X 1 11/21/22 Q CS-3 C 1 X 1 X 1 11/21/22 Q CS-3 C 1 X 1 X 1 11/21/22 Q CS-3 C 1 X 1 X 1 11/21/22 <th< td=""><td>one #: 575-318-5(</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ado</td><td>dres</td><td>s: 26</td><td>201</td><td>V. Marland</td><td></td><td></td><td></td><td></td><td>5</td><td>An</td><td></td><td>_</td><td>н</td><td></td></th<>	one #: 575-318-5(Ado	dres	s: 26	201	V. Marland					5	An		_	н	
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Received by OCD: 2/13/2023 7:53:21 AM

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 27 of 30

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
FOUNDATION ENERGY MANAGEMENT, LLC	370740
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	Action Type:
	[C-141] Release Corrective Action (C-141)

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