

Incident ID	nAPP2308664488
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>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

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

Printed Name: Kyle Norman Title: Regional Project Manager

Signature: Kyle Norman Date: 7/14/2023

email: knorman@tasman-geo.com Telephone: (575) 318-5017

OCD Only

Received by: _____ Date: _____

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Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be 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 timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Kyle Norman Title: Regional Project Manager
Signature: Kyle Norman Date: 7/14/2023
email: knorman@tasman-geo.com Telephone: (575) 318-5017

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

D-6-7-14 EXT LINE Remediation Action Plan

NMOCD Incident No. nAPP2308664488
UL "G", Sec. 10, T21S, R27E
32.495455°, -104.176842°
Eddy County, New Mexico

July 13, 2023



PREPARED ON BEHALF OF

DCP Operating Company, LP
6900 E. Layton Ave
Suite 900
Denver Co 80237-3658

PREPARED BY

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



July 13, 2023

DCP Operating Company, LP
6900 E. Layton Ave
Suite 900
Denver Co 80237-3658

Attn: Mr. Steve Weathers
Email: Stephen.Weathers@P66.com

Re: Remediation Action Plan
D-6-7-14 Ext Line
UL "G", Section 10, Township 21 South, Range 27 East
Eddy County, New Mexico
NMOCD Incident No. nAPP2308664488
Tasman Project No. 5473

Dear Mr. Weathers,

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 natural gas and natural gas condensate to the environment.

Tasman conducted initial assessment activities, identifying an approximately 2,600-square foot area that had been impacted by the release. The release area was then vertically and horizontally delineated. Based on laboratory analytical results from soil samples collected during confirmation sampling activities, impacted soil within the release area has been delineated to the applicable NMOCD Action Levels. Additional project details are provided in the attached Remediation Action Plan.

Tasman appreciates the opportunity to provide environmental services to DCP Operating Company, LP. 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
knorman@tasman-geo.com

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Appendix D – Certified Laboratory Analytical Reports



1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the D-6-7-14 Ext Line (site) on behalf of DCP Operating Company, LP (DCP), 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 Unit Letter "G" of Section 10, Township 21 South, Range 27 East in Eddy County, New Mexico. The release occurred from the D-6-7-14 Ext pipeline, an 8-inch diameter steel natural gas pipeline. The release occurred on property held by the Bureau of Land Management (BLM). A site location map can be found attached as Figure 1.

1.2 Release Detail and Initial Response

On March 27, 2023, the D-6-7-14 Ext pipeline was discovered by DCP personnel due to a line strike. A Notification of Release (NOR) was provided to the New Mexico Oil Conservation District (NMOCD) via online portal on March 27, 2023. The release resulted in the release of approximately 12 barrels (bbls) of natural gas condensate and 7 thousand cubic feet (mcf) of natural gas to the surrounding environmental media. DCP personnel shut in the pipeline to isolate the release. The line was later repaired and returned to service. No natural gas or natural gas condensate was recovered.

On March 28, 2023, Tasman submitted the initial form C-141 to NMOCD. Copies of the NMOCD notifications are provided in Appendix A.

2.0 SITE CHARACTERISTICS

2.1 Depth to Groundwater

Tasman reviewed available depth to groundwater information available through the New Mexico Office of the State Engineer (NMOSE) for registered water wells within a one-mile radius of the site. The nearest registered water well, identified as POD1 C-3690, is located 0.31 miles southeast of the site. The well was installed in November 2013 with no water being measured to its terminal dept of 200 feet. The Site Characteristics Map included as Figure 1 illustrates the location of the registered water wells within the vicinity of the site, and a summary of depth to groundwater information is provided as Appendix B.

2.2 Karst Potential

Tasman utilized the publicly available karst potential map published by the Bureau of Land Management (BLM) Carlsbad Field Office (CFO) to determine the potential for encountering karst formations beneath the site. Review of the BLM CFO karst potential map indicates that the site is located in an area of high potential to encounter karstic features.

2.3 Proximity to Sensitive Receptors and Site Characteristics Summary

The table below denotes if the site is located within the minimum allowable distance from a sensitive receptor, as defined in New Mexico Administrative Code (NMAC) 19.15.29.

Site Characteristics Summary		
Approximate depth to groundwater:	>200 ft bgs	
Within an area of high karst potential?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Within 300 ft. of any continuously flowing of significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 500 ft. of a spring or private, domestic fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 1,000 ft. of any fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the incorporated municipal boundaries or within a municipal well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within an unstable area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

3.0 REMEDIATION AND ASSESSMENT LEVELS

NMOCD assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and proximity to sensitive receptors as established in NMAC 19.15.29. Based on site characteristics described in Section 2.0, the NMOCD Action Levels for a site with a depth to groundwater of less than 50 feet bgs were utilized; these Action Levels are as follows:

Constituent	Action Level
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	N/A
BTEX	50 mg/kg
Benzene	10 mg/kg

TPH – total petroleum hydrocarbons

DRO – diesel range organics

BTEX – benzene, toluene, ethylbenzene, total xylenes

GRO – gasoline range organics

MRO – motor/lube oil range organics

mg/kg – milligrams per kilogram

3.1 Reclamation Levels

NMAC 19.15.29.13(D) codifies, and the *Procedures for Implementation of the Spill Rule*, dated September 6, 2019, clarifies that the top four feet of the remediated area should be non-waste containing. Therefore, the NMOCD Reclamation Standards are applied to the top four feet of any area impacted by a release that is not located within an active production facility. NMOCD Reclamation Standards are as follows:

Constituent	Reclamation Standard
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

4.0 RELEASE ASSESSMENT

On March 27, 2023, Tasman was retained by DCP to respond to a release of natural gas and natural gas condensate at the site. Initial observations indicated a disturbed area of approximately 2,603 square feet (ft²) with an overspray area of approximately 1,046 ft². A photographic log of the release area is included as Appendix C.

On April 18, 2023, Tasman advanced 16 trenches (referred to as verticals) via heavy equipment to delineate the release area laterally and horizontally. Verticals V-1, V-4, V-7, V-10, and V-13 were advanced within the apparent release area and the remaining verticals were advanced outside of the release area. Verticals were advanced to depths varying from surface to four feet bgs.

On April 19, 2023, a non-Tasman company collected additional samples from a trench installed north of the site. Four wall samples and one floor sample were collected.

On October 25, 2022, Tasman mobilized to the site to continue delineation and advance an additional two verticals via heavy equipment to further delineate the release. Verticals V-17 through V-18 were each advanced outside of the release margins and were advanced to depths of six ft bgs. Verticals V-2 and V-7 were further delineated to a depth of six ft bgs.

The attached Figure 2 illustrates the observed release area and location of vertical delineation trenches.

4.1 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.

4.2 Soil Analytical Methods

Each soil sample was analyzed using Environmental Protection Agency (EPA) or other NMOCD-approved 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.

4.3 Release Assessment Data Evaluation

Concentrations of chlorides were greater than the NMOCD Action Levels in vertical V-2 at the surface and at 1.5 ft bgs and vertical V-7 at the surface, with concentrations ranging from 672 mg/kg to 10,100 mg/kg. Vertical delineation was achieved in both verticals at V-2 at six ft bgs and at V-7 at 2 ft bgs. None of the remaining detected concentrations of chlorides exceeded NMOCD Action Levels, with ranges from below reported detection limits (RDLs) to 368 mg/kg.

Concentrations of benzene, BTEX and TPH were not detected above laboratory RDLs throughout all submitted soil samples.

Soil samples from the non-Tasman entity were submitted for laboratory analysis and yielded chloride concentrations ranging from 176 mg/kg to 416 mg/kg. Benzene, BTEX and TPH were below laboratory RDLs throughout.

Analytical results are summarized on Table 1 and laboratory analytical results are included as Appendix D.



5.0 PROPOSED REMEDIAL ACTIONS

Tasman proposes to remediate the site using physical removal of soil within the delineated area of the release. The area surrounding vertical V-2 will be excavated to approximately two ft bgs and the area surrounding V-7 will be excavated to approximately one ft bgs. Excavated soil will be staged on-site atop a polyethylene liner pending transportation under manifest to an NMOCD approved disposal facility.

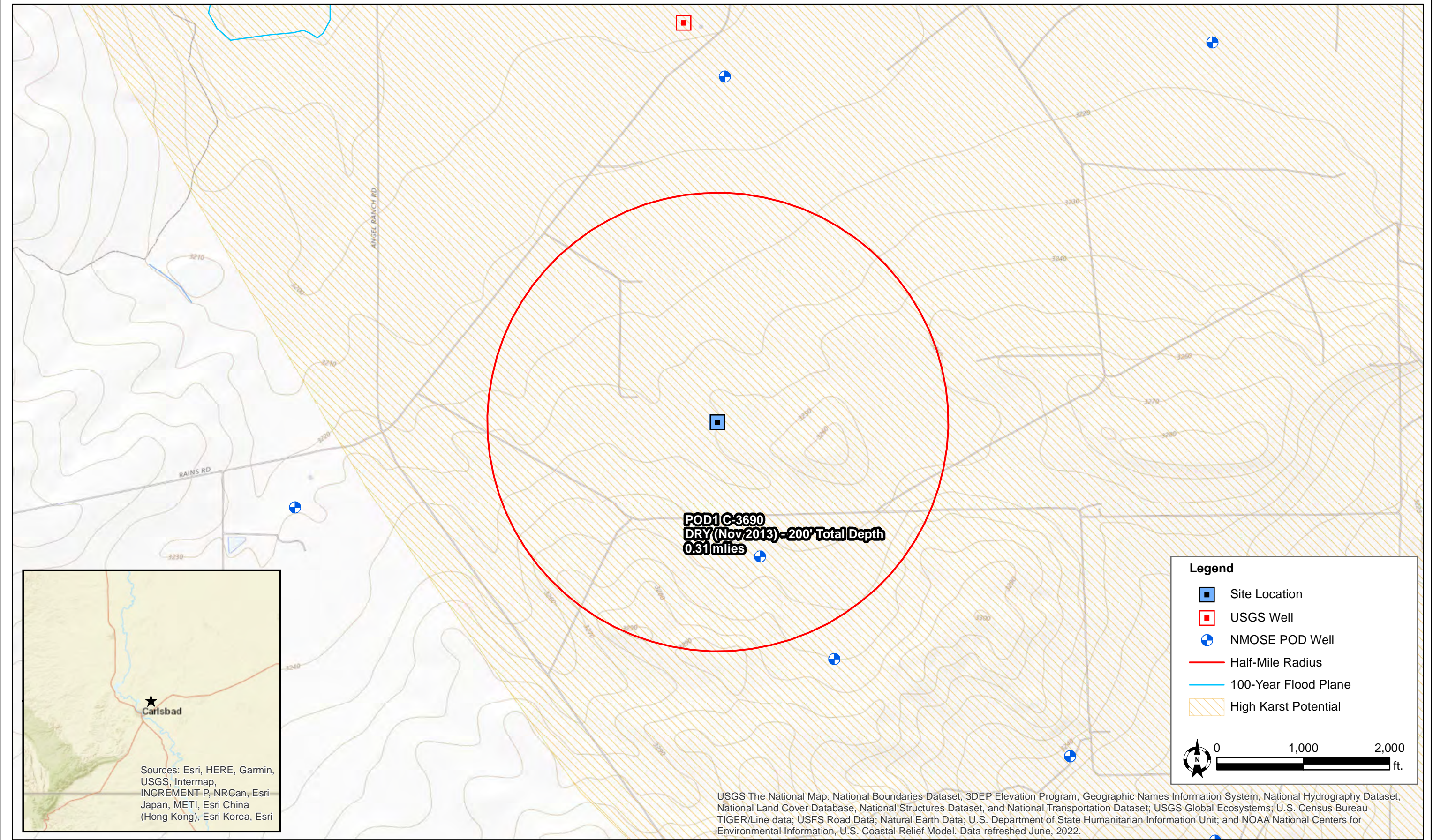
Once field data indicates that the release area has been remediated to NMOCD requirements established in Section 3.0, Tasman will collect five-point confirmation samples from the base and sidewalls of the excavation. The collected confirmation samples will represent an area no greater than 500 ft². Confirmation sampling activities and laboratory analysis will be conducted as described in Sections 4.1 and 4.2.

6.0 PROPOSED RECLAMATION AND REVEGETATION

Upon receipt of confirmation samples that indicate remediation objectives have been met, areas affected by the release and associated remediation activities will be restored to the condition which existed prior to the release to the maximum extent possible. Excavated areas will be backfilled with non-impacted "like" material and contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The BLM (surface owner) will be consulted for their preference in native seed mix. Upon BLM approval, Tasman will seed the area 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 means (e.g., screen or disc harrow).

Figures



DATE:	June 2023
DESIGNED BY:	B. Dennis
DRAWN BY:	B. Dennis

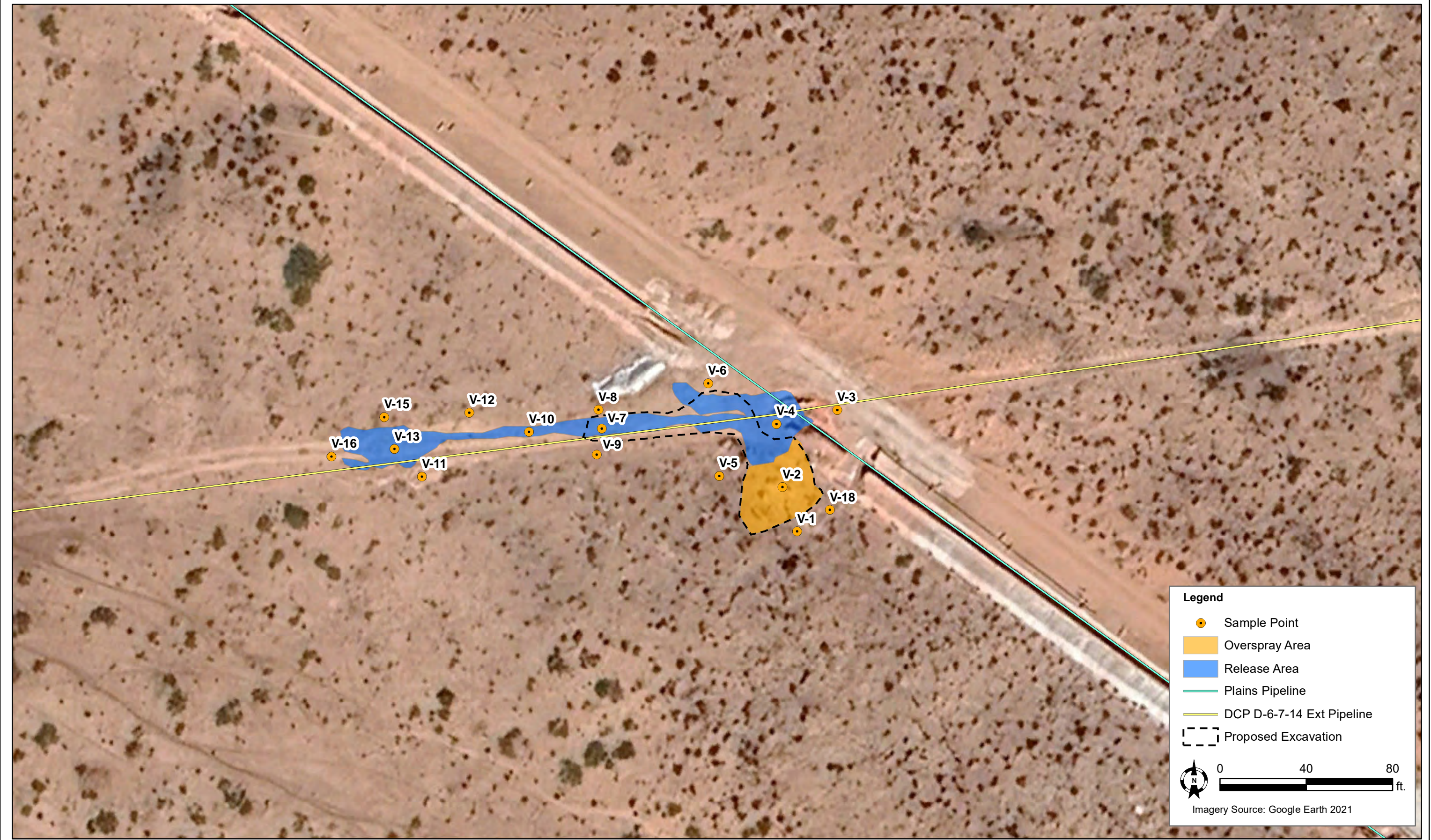


Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

DCP Midstream, LP
D-6-7-14 Ext Line - nAPP2308664488
UL "G" Sec. 10, T21S, R27E
Eddy County, New Mexico

Site Location & Characteristics
Map

Figure
1



DATE:	June 2023
DESIGNED BY:	B. Dennis
DRAWN BY:	B. Dennis



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6855 W. 119th Ave
Broomfield, CO 80020

DCP Midstream, LP
D-6-7-14 Ext Line - nAPP2308664488
UL "G", Sec. 10, T21S, R27E
Eddy County, New Mexico

Delineation Overview Map

Figure
2

Table

TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES

DCP Midstream, LP

D-6-7-14 Ext Line

NMOCD Incident No. nAPP2308664488

Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
Site Assessment Soil Samples												
V-1*	0 - 0.5'	4/18/2023	In-Situ	0.30	86.0	---	---	---	---	---	---	---
	1'		In-Situ	0.50	115	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	176
V-2*	0 - 0.5'	4/18/2023	In-Situ	0.60	3,493	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	3,240
	1'		In-Situ	0.20	678	---	---	---	---	---	---	---
	1.5'		In-Situ	0.40	697	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	672
	6'	6/13/2023	In-Situ	1.60	299	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	368
V-3*	0 - 0.5'	4/18/2023	In-Situ	0.30	266	---	---	---	---	---	---	---
	1'		In-Situ	0.5	120	---	---	---	---	---	---	---
	1.5'		In-Situ	0.3	118	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-4*	7'	4/18/2023	In-Situ	1.0	230	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	320
	8'		In-Situ	0.9	118	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	320
V-5*	0 - 0.5'	4/18/2023	In-Situ	0.3	83.0	---	---	---	---	---	---	---
	1'		In-Situ	0.3	88.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-6*	0 - 0.5'	4/18/2023	In-Situ	0.9	84.0	---	---	---	---	---	---	---
	1'		In-Situ	0.9	85.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-7*	0 - 0.5'	4/18/2023	In-Situ	0.7	18,255	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	36,000
	2'	6/13/2023	In-Situ	---	87.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	6'		In-Situ	---	207	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	144
V-8*	0 - 0.5'	4/18/2023	In-Situ	0.7	113	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	1'		In-Situ	0.5	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-9*	0 - 0.5'	4/18/2023	In-Situ	0.8	55.0	---	---	---	---	---	---	---
	1'		In-Situ	0.6	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-10*	0 - 0.5'	4/18/2023	In-Situ	0.4	58.0	---	---	---	---	---	---	---
	1'		In-Situ	0.2	89.0	---	---	---	---	---	---	---
	2'		In-Situ	0.4	59.0	---	---	---	---	---	---	---
	3'		In-Situ	0.9	58.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	4'		In-Situ	0.7	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
V-11*	0 - 0.5'	4/18/2023	In-Situ	0.8	88.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	1'		In-Situ	0.7	86.0	---	---	---	---	---	---	---
	1.5'		In-Situ	0.3	85.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-12*	0 - 0.5'	4/18/2023	In-Situ	0.4	83.0	---	---	---	---	---	---	---
	1'		In-Situ	0.4	89.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	2'		In-Situ	0.3	60.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-13*	0 - 0.5'	4/18/2023	In-Situ	1.0	58.0	---	---	---	---	---	---	---
	1'		In-Situ	0.9	60.0	---	---	---	---	---	---	---
	2'		In-Situ	0.7	88.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	3'		In-Situ	0.4	56.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
NMOCD Reclamation Standards ⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards ⁵ (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600

TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES

DCP Midstream, LP

D-6-7-14 Ext Line

NMOCD Incident No. nAPP2308664488

Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
V-15*	0 - 0.5'	4/18/2023	In-Situ	0.5	60.0	---	---	---	---	---	---	---
	1'		In-Situ	1.1	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	16.0	
	2'		In-Situ	0.5	58.0	---	---	---	---	---	---	
	3'		In-Situ	0.4	86.0	<0.050	<0.300	<10.0	<10.0	<10.0	80.0	
V-16*	0 - 0.5'	4/18/2023	In-Situ	0.1	59.0	---	---	---	---	---	---	---
	1'		In-Situ	0.5	59.0	---	---	---	---	---	---	---
	2'		In-Situ	0.2	89.0	<0.050	<0.300	<10.0	<10.0	<10.0	16.0	
	3'		In-Situ	0.5	59.0	---	---	---	---	---	---	---
	4'		In-Situ	0.6	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-17*	0 - 0.5'	6/13/2023	In-Situ	111	87.1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	2'		In-Situ	16.4	233	----	----	----	----	----	----	----
	4'		In-Situ	33.7	390	----	----	----	----	----	----	----
	6'		In-Situ	27.1	336	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	336
V-18*	0 - 0.5'	6/13/2023	In-Situ	104.2	117	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
	2'		In-Situ	3.5	58.8	----	----	----	----	----	----	----
	4'		In-Situ	6.5	59.2	----	----	----	----	----	----	----
	6'		In-Situ	2.8	282	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	144
Plains Pipeline Trench Confirmation Soil Samples												
NSW-1	6'	4/19/2023	In-Situ	----	----	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	192
NSW-2	6'	4/19/2023	In-Situ	----	----	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	304
SSW-1	6'	4/19/2023	In-Situ	----	----	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	176
SSW-2	6'	4/19/2023	In-Situ	----	----	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	416
Floor	7'	4/19/2023	In-Situ	----	----	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	256
NMOCD Reclamation Standards ⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards ⁵ (Applicable for soils greater than 4 ft. below grade surface)				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 Administrative Code (NMAC) 19.15.29.13(D) - Restoration, Reclamation, and Re-vegetation (Reclamation for areas no longer in use) for soils extending to 4 ft. below grade surface (bgs).
 5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample
- Bold** values denote concentrations above laboratory RDL
- 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
 <RDL = The analyte was not detected above the laboratory recorded detection limit (RDL)
 N/A = Not applicable
 Ft. = feet

Appendix A – NMOCD Notification

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2308664488
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party DCP Operating Company, LP	OGRID 36785
Contact Name Nicholas L. Case	Contact Telephone 575-802-5225
Contact email nlcase@dcpmidstream.com	Incident # (assigned by OCD)
Contact mailing address 5301 Sierra Vista Dr.	Carlsbad, NM 88220

Location of Release Source

Latitude 32.495455 Longitude -104.176842
(NAD 83 in decimal degrees to 5 decimal places)

Site Name D-6-7-14 Ext Line	Site Type 8" Poly Pipeline
Date Release Discovered 3/27/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	01	21S	27E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 12	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 7	Volume Recovered (Mcf) 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release: A line strike occurred on 03/27/2023 at ~12:00pm that resulted in ~12 barrels of condensate and 7 mcf being released.

Incident ID	nAPP2308664488
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Nicholas L. Case</u>	Title: <u>Staff Environmental Eng/Spec</u>
Signature:  <div style="font-size: 0.8em; color: red; margin-top: 5px;"> Digitally signed by Nicholas L. Case DN: cn=Nicholas L. Case, o=New Mexico, email=Nicholas.L.Case@nmdcp.com, c=US Date: 2023.03.28 10:42:42 -0600 </div>	Date: <u>3/28/2023</u>
email: <u>nlcase@dcpmidstream.com</u>	Telephone: <u>575-802-5225</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/28/2023</u>



13 Bataan Blvd Santa Fe, NM 87508

NAPP2308664488

FAX To: Regional Environmental Department 111-111-1111

SERC/LEPC Notification Form

Facility Name:	Artesia PL/Gathering	Date:	3/27/2023 2:33 PM	County:	EDDY
Location:	Event GPS Coordinates: 32.495386800759, -104.17750247763858				<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Updated Report <input type="checkbox"/> Final Report
	Driving Directions:				

Type of Incident:	Upset	Release Occurred To:	Air	Release Type:	Vented
Started On:	3/27/2023 12:00 PM	Ended On:	3/27/2023 2:25 PM	Discovered On:	3/27/2023 12:00 PM

Event Duration:

145 Minutes

Material Released:**Material Composition:**

Pentane 0.0338%, Ethane 2.4315%, Methane 95.1021%, Heptane 0.0566%, Propane 0.5745%, Carbon Dioxide 1.1496%, n-Octane 0.0287%, Isopentane 0.0422%, Hexane 0.0568%, Nitrogen 0.3109%, n-Nonane 0.0311%, Isobutane 0.0719%, Butane 0.1103%,

Calculations:

Compound Calculation Used to Obtain Released Amount

Pentane: $7723.32 \text{ {scf/event}} * 0.000338 \text{ {mole fraction}} * 72.1488 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Heptane: $7723.32 \text{ {scf/event}} * 0.000566 \text{ {mole fraction}} * 100.2019 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Propane: $7723.32 \text{ {scf/event}} * 0.005745 \text{ {mole fraction}} * 44.0956 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 n-Octane: $7723.32 \text{ {scf/event}} * 0.000287 \text{ {mole fraction}} * 114.2285 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Isopentane: $7723.32 \text{ {scf/event}} * 0.000422 \text{ {mole fraction}} * 72.1488 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Hexane: $7723.32 \text{ {scf/event}} * 0.000568 \text{ {mole fraction}} * 86.1754 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 n-Nonane: $7723.32 \text{ {scf/event}} * 0.000311 \text{ {mole fraction}} * 128.2551 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Isobutane: $7723.32 \text{ {scf/event}} * 0.000719 \text{ {mole fraction}} * 58.1222 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Butane: $7723.32 \text{ {scf/event}} * 0.001103 \text{ {mole fraction}} * 58.1222 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Ethane: $7723.32 \text{ {scf/event}} * 0.024315 \text{ {mole fraction}} * 30.069 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$
 Nitrogen: $7723.32 \text{ {scf/event}} * 0.003109 \text{ {mole fraction}} * 28.0134 \text{ {lb/lb-mole}} / 379.3 \text{ {scf/lb-mole}}$

Violations:**Known or anticipated acute or chronic health risks associated with the emergency:****Medical attention advised for exposed individuals:****Cause of the upset:**

line strike

Actions taken to correct the upset and minimize emissions:

shut in blown down

Precautions taken as a result of the release:

A. AI Number	N. Failure Pt No: O. Failure Pt. Description:				
	D-6-7-14 EXT				
A. NOx:	B. SO2:	C. CO:	D. PM:	E. VOC:	F. H2S:
0 lb	0 lb	0 lb		12.06 lb	0 lb
Vol=7.72 mscf/event					

SERC Email Notification:	henry.jolly@state.nm.us	LEPC Email Notification:	
---------------------------------	-------------------------	---------------------------------	--

Barrels Released Calculation

$$\frac{\text{Square Footage}}{27} \times \text{Height (ft)} = 67.40741 \text{ feet}^3$$

$$67.407407 \times 0.1781 = 12.005259 \text{ barrels released}$$

$$\frac{\text{Square Footage}}{27} \times \text{Height (ft)} = 0.058111 \text{ feet}^3$$

$$0.0581111 \times 0.1781 = 0.0103496 \text{ barrels released}$$

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

Action 201461

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 201461
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/28/2023

Appendix B – Depth to Groundwater Information



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-3690
 Well owner: Winton Ballard Phone No.: 575-517-9366
 Mailing address: 1819-2 N. Canal
 City: Carlsbad State: NM Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Taylor Water Well Service
- 2) New Mexico Well Driller License No.: WD-1348 Expiration Date: _____
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
CE Taylor
- 4) Date well plugging began: 11/15/13 Date well plugging concluded: 11/16/13
- 5) GPS Well Location: Latitude: 32 deg, 23 min, 17.0 sec
 Longitude: 104 deg, 10 min, 18.4 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 200 ft below ground level (bgl),
 by the following manner: Tag Line
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: _____
- 9) Were all plugging activities consistent with an approved plugging plan? _____ If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Drilled dry hole to 200'. Plugged w/Gravel, Bentonite + Concrete.

NOV 19 A 2:13
 STATE ENGINEER OFFICE

- For each interval plugged, describe within the following columns:**

[illegible]

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, CE Taylor, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

SC

Signature of Well Driller

11/18/13
Date

Appendix C – Photographic Log

DCP Midstream

D-6-7-14 Ext Line



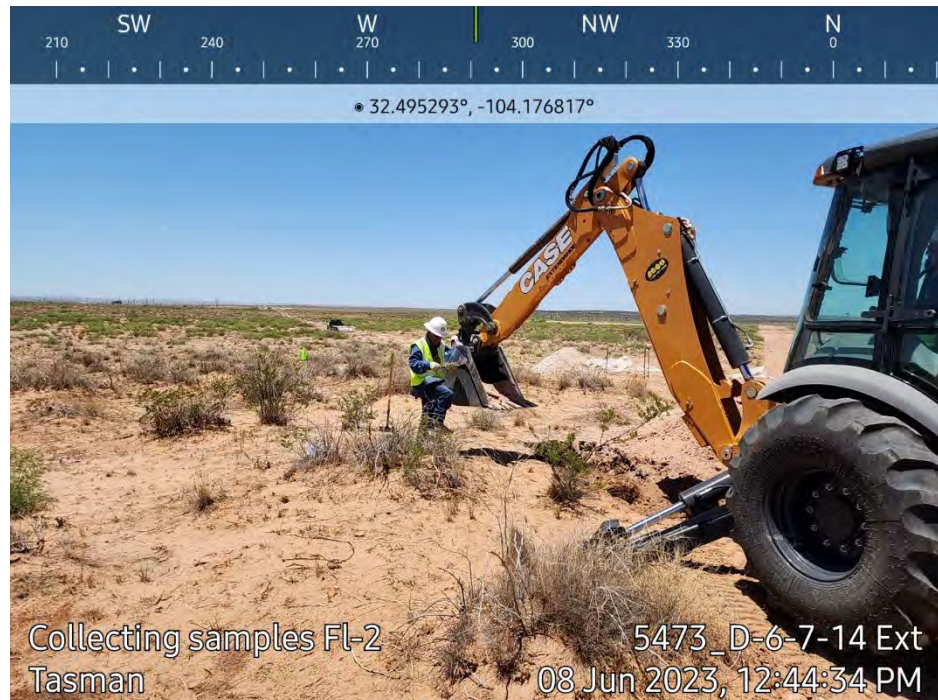
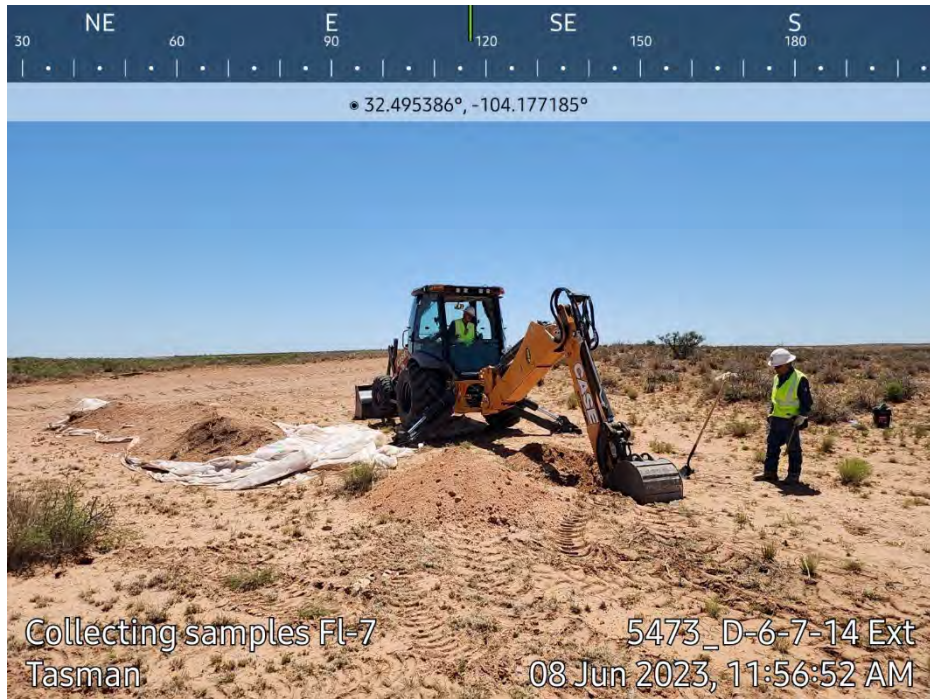
DCP Midstream

D-6-7-14 Ext Line



DCP Midstream

D-6-7-14 Ext Line



Appendix D – Certified Laboratory Analytical Reports



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

May 03, 2023

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 5473_D-6-7-14 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 04/27/23 15:50.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 @ 1' (H232090-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.2	2.00	4.28	
Toluene*	<0.050	0.050	04/29/2023	ND	1.91	95.4	2.00	4.24	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.93	96.7	2.00	5.11	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.82	97.1	6.00	5.38	
Total BTX	<0.300	0.300	04/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	189	94.5	200	0.698	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	177	88.6	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 @ 0-0.5' (H232090-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.90	95.2	2.00	4.28		
Toluene*	<0.050	0.050	04/29/2023	ND	1.91	95.4	2.00	4.24		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.93	96.7	2.00	5.11		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.82	97.1	6.00	5.38		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	189	94.5	200	0.698	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	177	88.6	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 @ 1.5' (H232090-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	189	94.5	200	0.698	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	177	88.6	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 @ 0-0.5' (H232090-04)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 @ 1.5' (H232090-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEx	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 @ 7' (H232090-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 @ 8' (H232090-07)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 5 @ 1' (H232090-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 6 @ 1' (H232090-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 7 @ 0-0.5' (H232090-10)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 8 @ 0-0.5' (H232090-11)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5	
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5	
Total BTX	<0.300	0.300	04/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 8 @ 1' (H232090-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 9 @ 1' (H232090-13)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 68.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 10 @ 3' (H232090-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 10 @ 4' (H232090-15)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 11 @ 0-0.5' (H232090-16)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 11 @ 1.5' (H232090-17)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 12 @ 1' (H232090-18)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5	
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5	
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5	
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5	
Total BTX	<0.300	0.300	04/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	05/01/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 12 @ 2' (H232090-19)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 13 @ 2' (H232090-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 13 @ 3' (H232090-21)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 56.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 15 @ 1' (H232090-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.75	87.3	2.00	15.5		
Toluene*	<0.050	0.050	04/29/2023	ND	1.79	89.5	2.00	14.5		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.81	90.7	2.00	13.5		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	5.56	92.7	6.00	11.5		
Total BTEX	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 15 @ 3' (H232090-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.96	98.1	2.00	3.46		
Toluene*	<0.050	0.050	04/29/2023	ND	1.96	98.1	2.00	2.94		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.98	99.1	2.00	3.91		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.11	102	6.00	4.71		
Total BTEx	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	201	101	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	195	97.4	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 16 @ 2' (H232090-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.96	98.1	2.00	3.46		
Toluene*	<0.050	0.050	04/29/2023	ND	1.96	98.1	2.00	2.94		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.98	99.1	2.00	3.91		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.11	102	6.00	4.71		
Total BTEx	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	182	90.8	200	3.09	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	171	85.5	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/27/2023
 Reported: 05/03/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 16 @ 4' (H232090-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2023	ND	1.96	98.1	2.00	3.46		
Toluene*	<0.050	0.050	04/29/2023	ND	1.96	98.1	2.00	2.94		
Ethylbenzene*	<0.050	0.050	04/29/2023	ND	1.98	99.1	2.00	3.91		
Total Xylenes*	<0.150	0.150	04/29/2023	ND	6.11	102	6.00	4.71		
Total BTEx	<0.300	0.300	04/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	05/01/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2023	ND	182	90.8	200	3.09	
DRO >C10-C28*	<10.0	10.0	04/28/2023	ND	171	85.5	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	04/28/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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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

2 of 3

Company Name: Tasman Geosciences				BILL TO				ANALYSIS REQUEST																			
Project Manager: Kyle Norman				P.O. #:				TPH 8015 Ext BTEX Chlorides 24-hr Rush																			
Address: 2620 W. Marland Blvd.				Company: Tasman Geo																							
City: Hobbs State: NM Zip: 88240				Attn: Kyle Norman																							
Phone #: 575-318-5017 Fax #:				Address: 2620 W. Marland																							
Project #: 5473 Project Owner: DCP Midstream				City: Hobbs																							
Project Name: 5473_D-6-7-14 Line Leak				State: NM Zip: 88240																							
Project Location:				Phone #: 575-318-5017																							
Sampler Name: Chris Flores				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
11	V-8 @ 0-0.5'	G	1			X							4/18/23		X	X	X										
12	V-8 @ 1'	G	1			X							4/18/23		X	X	X										
13	V-9 @ 1'	G	1			X							4/18/23		X	X	X										
14	V-10 @ 3'	G	1			X							4/18/23		X	X	X										
15	V-10 @ 4'	G	1			X							4/18/23		X	X	X										
16	V-11 @ 0-0.5'	G	1			X							4/18/23		X	X	X										
17	V-11 @ 1.5'	G	1			X							4/18/23		X	X	X										
18	V-12 @ 1'	G	1			X							4/18/23		X	X	X										
19	V-12 @ 2'	G	1			X							4/18/23		X	X	X										
20	V-13 @ 2'	G	1			X							4/18/23		X	X	X										

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Relinquished By:	Date: 4/18/23	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 15:50		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;	
Delivered By: (Circle One)	#113	Sample Condition Cool	CHECKED BY:	
Sampler - UPS - Bus - Other:	-12.0c / -12.6c	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	
		<input type="checkbox"/> No <input type="checkbox"/> No	go	

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

June 16, 2023

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 5473_D-6-7-14 EXT

Enclosed are the results of analyses for samples received by the laboratory on 06/13/23 13:47.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 7 @ 2' (H233024-02)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-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	06/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	180	90.1	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	183	91.4	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 7 @ 6' (H233024-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82		
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97		
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31		
Total BTEX	<0.300	0.300	06/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	180	90.1	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	183	91.4	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 17 @ 0-0.5' (H233024-05)

BTEx 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82		
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97		
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31		
Total BTEX	<0.300	0.300	06/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, 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	06/14/2023	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	180	90.1	200	2.28		
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	183	91.4	200	4.07		
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND						

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 17 @ 6' (H233024-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTEx	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	180	90.1	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	183	91.4	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 @ 0-0.5' (H233024-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82		
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97		
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31		
Total BTEX	<0.300	0.300	06/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10100	16.0	06/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	180	90.1	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	183	91.4	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 @ 6' (H233024-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82		
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97		
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31		
Total BTEx	<0.300	0.300	06/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	180	90.1	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	183	91.4	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 18 @ 0-0.5' (H233024-13)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	2.60		
Toluene*	<0.050	0.050	06/14/2023	ND	2.24	112	2.00	3.52		
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.28	114	2.00	3.89		
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.10		
Total BTEX	<0.300	0.300	06/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	06/14/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	183	91.6	200	1.80	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	184	91.8	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/13/2023
 Reported: 06/16/2023
 Project Name: 5473_D-6-7-14 EXT
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 18 @ 6' (H233024-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.20	110	2.00	2.60	
Toluene*	<0.050	0.050	06/14/2023	ND	2.24	112	2.00	3.52	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.28	114	2.00	3.89	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.10	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/14/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2023	ND	183	91.6	200	1.80	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	184	91.8	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

A-01	CCV Failed High. All samples ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

[illegible]

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



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

[illegible]

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Relinquished By: <i>K. H. H.</i>		Date: <i>6/13/27</i>	Received By: <i>S. D. R.</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
		Time: <i>1347</i>			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:			email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;	
Delivered By: (Circle One) <i>0.9L - 0.0L</i>			Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <i>SR</i>		
Sampler - UPS - Bus - Other: <i>0.3L #113</i>						

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



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April 25, 2023

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 5473_D-6-7-14 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 13:25.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/25/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: NSW - 1 @ 6' (H231894-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.87	93.5	2.00	14.7		
Toluene*	<0.050	0.050	04/22/2023	ND	2.00	99.8	2.00	15.7		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.06	103	2.00	15.5		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.22	104	6.00	16.2		
Total BTEX	<0.300	0.300	04/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	178	89.2	200	0.457	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	172	86.2	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/25/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: NSW - 2 @ 6' (H231894-02)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.87	93.5	2.00	14.7		
Toluene*	<0.050	0.050	04/22/2023	ND	2.00	99.8	2.00	15.7		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.06	103	2.00	15.5		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.22	104	6.00	16.2		
Total BTX	<0.300	0.300	04/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	178	89.2	200	0.457	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	172	86.2	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/25/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: SSW - 1 @ 6' (H231894-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.88	94.0	2.00	4.27		
Toluene*	<0.050	0.050	04/22/2023	ND	2.00	99.8	2.00	4.01		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.23	111	2.00	4.67		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.75	112	6.00	5.06		
Total BTEx	<0.300	0.300	04/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	178	89.2	200	0.457	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	172	86.2	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/25/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: SSW - 2 @ 6' (H231894-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.88	94.0	2.00	4.27		
Toluene*	<0.050	0.050	04/22/2023	ND	2.00	99.8	2.00	4.01		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.23	111	2.00	4.67		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.75	112	6.00	5.06		
Total BTEx	<0.300	0.300	04/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	178	89.2	200	0.457	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	172	86.2	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/25/2023
 Project Name: 5473_D-6-7-14 LINE LEAK
 Project Number: 5473
 Project Location: NONE GIVEN

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Brandi Bautista

Sample ID: FLOOR @ 7' (H231894-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.88	94.0	2.00	4.27		
Toluene*	<0.050	0.050	04/22/2023	ND	2.00	99.8	2.00	4.01		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.23	111	2.00	4.67		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.75	112	6.00	5.06		
Total BTEx	<0.300	0.300	04/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/21/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	178	89.2	200	0.457	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	172	86.2	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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 recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager


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: Tasman Geosciences				BILL TO				ANALYSIS REQUEST											
Project Manager: Kyle Norman				P.O. #:				TPH 8015 Ext BTEX Chlorides 24-hr Rush											
Address: 2620 W. Marland Blvd.				Company: Tasman Geo															
City: Hobbs State: NM Zip: 88240				Attn: Kyle Norman															
Phone #: 575-318-5017 Fax #:				Address: 2620 W. Marland															
Project #: 5473 Project Owner: DCP Midstream				City: Hobbs															
Project Name: 5473_D-6-7-14 Line Leak				State: NM Zip: 88240															
Project Location:				Phone #: 575-318-5017															
Sampler Name: Brett Dennis				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME					
H231894																			
1	NSW-1 @ 6'	G	1			X							4/19/23	0930	X	X	X		
2	NSW-2 @ 6'	G	1			X							4/19/23	0932	X	X	X		
3	SSW-1 @ 6'	G	1			X							4/19/23	0935	X	X	X		
4	SSW-2 @ 6'	G	1			X							4/19/23	0937	X	X	X		
5	Floor @ 7'	G	1			X							4/19/23	0941	X	X	X		

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Relinquished By:	Date: 4/19/23	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 13:25	Brandi Bautish	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;	
Delivered By: (Circle One)	#113	Sample Condition Cool	CHECKED BY:	
Sampler - UPS - Bus - Other:	-4.6°C / -5.2°C	Intact	(Initials)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BIB	
		<input type="checkbox"/> No <input type="checkbox"/> No		

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

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

Action 271037

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 271037
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan conditionally approved. Confirmation soil samples should be collected for the entire release area. Per 19.15.29.12(D)1 NMAC, these must consist of five-point composite samples from the side wall and base and individual grab samples from any wet or discolored areas. A variance is approved to collect confirmation samples every 400 square feet.	12/27/2023