

## B-10 LINE LEAK

### Remediation Action Plan

NMOCD Incident No. nAPP2223043122

UL "J", Sec. 15, T21S, R36E

32.478108°, -103.253234°

Lea County, New Mexico

January 16, 2023



#### PREPARED ON BEHALF OF

DCP Midstream, LP  
370 17<sup>th</sup> St., Suite 2500  
Denver, CO 88240



#### PREPARED BY

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



January 16, 2023

DCP Midstream, LP  
370 17<sup>th</sup> Street, Suite 2500  
Denver, Colorado 88240

Attn: Mr. Steve Weathers  
Email: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)

Re: Remediation Action Plan  
B-10 Line Leak  
UL "J", Section 15, Township 21 South, Range 36 East  
Lea County, New Mexico  
NMOCD Incident No. nAPP2221039834  
Tasman Project No. 4616

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 1,225-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 Level. Additional project details are provided in the attached Remediation Action Plan.

Tasman appreciates the opportunity to provide environmental services to DCP Midstream, 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](mailto:bdennis@tasman-geo.com)

Kyle Norman  
Regional Project Manager  
[knorman@tasman-geo.com](mailto:knorman@tasman-geo.com)

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## 1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the B-10 Line Leak (site) on behalf of DCP Midstream, 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 "J" of Section 15, Township 21 South, Range 36 East in Lea County, New Mexico. The release occurred from the B-10 pipeline, a 12-inch diameter steel natural gas pipeline. The release occurred on property held by the New Mexico State Land Office (SLO). A site location map can be found attached as Figure 1.

### 1.2 Release Detail and Initial Response

On August 15, 2022, the B-10 pipeline was discovered by DCP personnel to have failed due to internal corrosion. A Notification of Release (NOR) was provided to the New Mexico Oil Conservation District (NMOCD) via online portal on August 18, 2022. The release resulted in the release of approximately 14 barrels (bbls) of natural gas condensate and 4 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. The form C-141 can be found 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 CP 01696 POD1, is located 0.63 miles from the site. The depth to water was measured at 173 feet below ground surface (bgs) and was installed in December of 2017. The Site Characteristics Map included as Figure 2 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 not 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:	~ 173 ft bgs	
Within an area of high karst potential?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of any continuously flowing or 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	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
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 August 15, 2022, 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 1,225 square feet (ft<sup>2</sup>). A photographic log of the release area is included as Appendix C.

On October 6-7, 2022, Tasman advanced eight trenches (referred to as verticals) via heavy equipment to delineate the release area laterally and horizontally. Verticals V-2 through V-4, V-6, and V-8 were advanced outside of the apparent release area and verticals V-1, V-5, and V-7 were advanced within the release area. Verticals were advanced to depths varying from six to 14 feet bgs.

On October 25, 2022, Tasman mobilized to the site to advance an additional five verticals via heavy equipment to further delineate the release. Verticals V-9 through V-13 were each advanced outside of the release margins. Verticals were advanced to depths varying from six to 10 feet bgs.

On November 7, 2022, Tasman advanced one additional trench in the location of the previously sampled vertical V-1 for the purpose of vertical delineation. Vertical V-1 was extended to 18 feet bgs.

The attached Figure 3 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 BTEX were detected above laboratory sample detection limits (SDLs) in the soil samples collected from vertical V-1 at 15 feet and 16 feet bgs but were below the applicable NMOCD Action Levels.

Concentrations of TPH were greater than the NMOCD Action Levels in vertical V-1 in each of the soil samples submitted for laboratory analysis. Vertical V-3 at 2 feet bgs and V-9 at 0.5 feet bgs exhibited concentrations of TPH greater than the applicable Action Levels. Vertical delineation was achieved at both verticals V-3 and V-9 at 6 feet bgs. Detected concentrations of Total TPH ranged from 10.4 milligrams per kilogram (mg/kg) to 12,486 mg/kg.

Concentrations of chlorides were detected above laboratory SDLs in numerous samples collected from the verticals advanced at the site. None of the detected concentrations of chlorides exceeded NMOCD Action Levels. Detected concentrations of chlorides ranged from 16.0 mg/kg to 48.0 mg/kg.

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. Vertical delineation was not achieved at vertical V-1 that was advanced to 18 feet bgs. Tasman will excavate the area surrounding vertical V-1 to NMOCD criteria applicable for the site. The areas surrounding vertical V-3 and V-5 will be excavated to approximately 4 feet bgs. All other areas will be excavated to depths ranging from 1 to 2 feet bgs or until field data and/or observations indicate that the impacted material will meet Action Levels. 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 ft<sup>2</sup>. Confirmation sampling activities and laboratory analysis will be conducted as described in Sections 4.1 and 4.2.

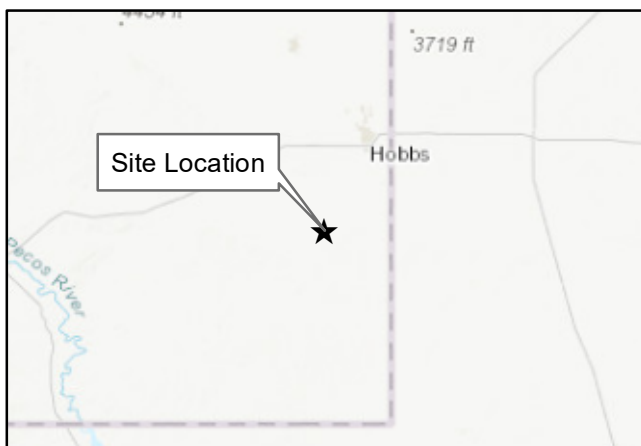
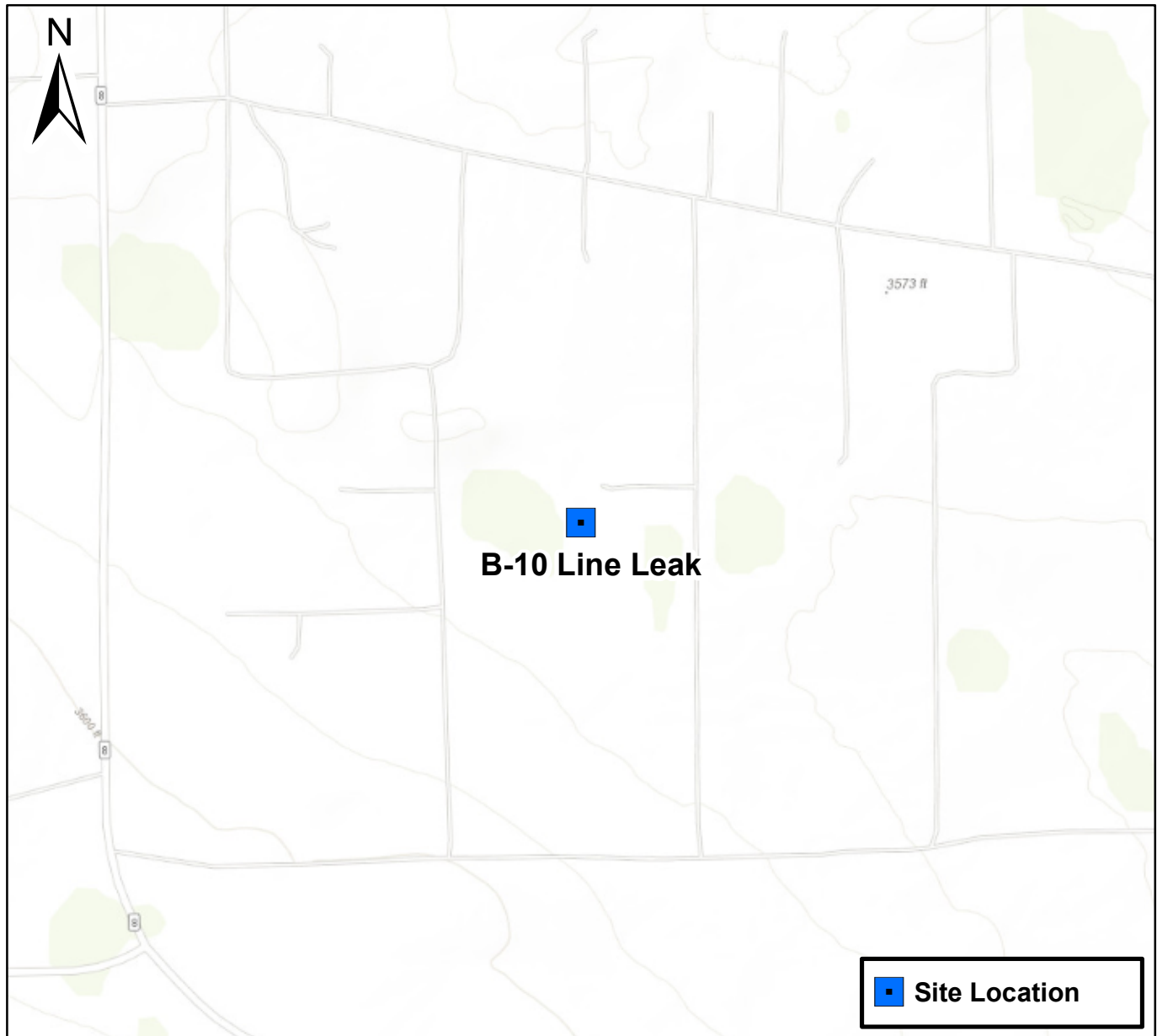
## 6.0 PROPOSED RECLAMATION AND REVEGETATION

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



## **Figures**



0 1,050 2,100 Feet

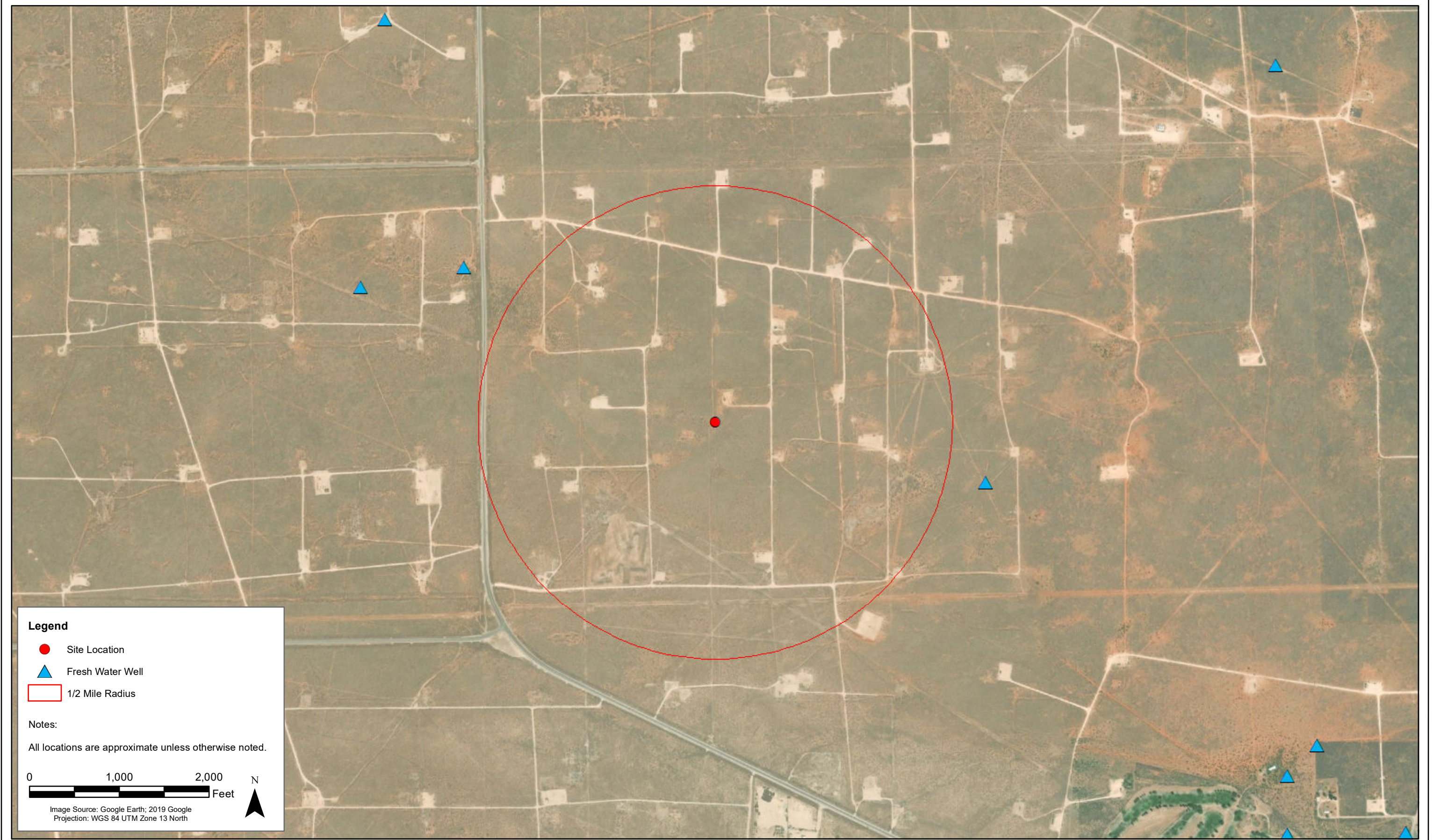
## Figure 1

Site Location Map  
B-10 Line Leak  
NESW S15 T21S R36E  
Lea County, New Mexico



Drawn By: JC  
Date: 12/6/2022





DATE:	November 14, 2022
DESIGNED BY:	B. Dennis
DRAWN BY:	J. Clonts



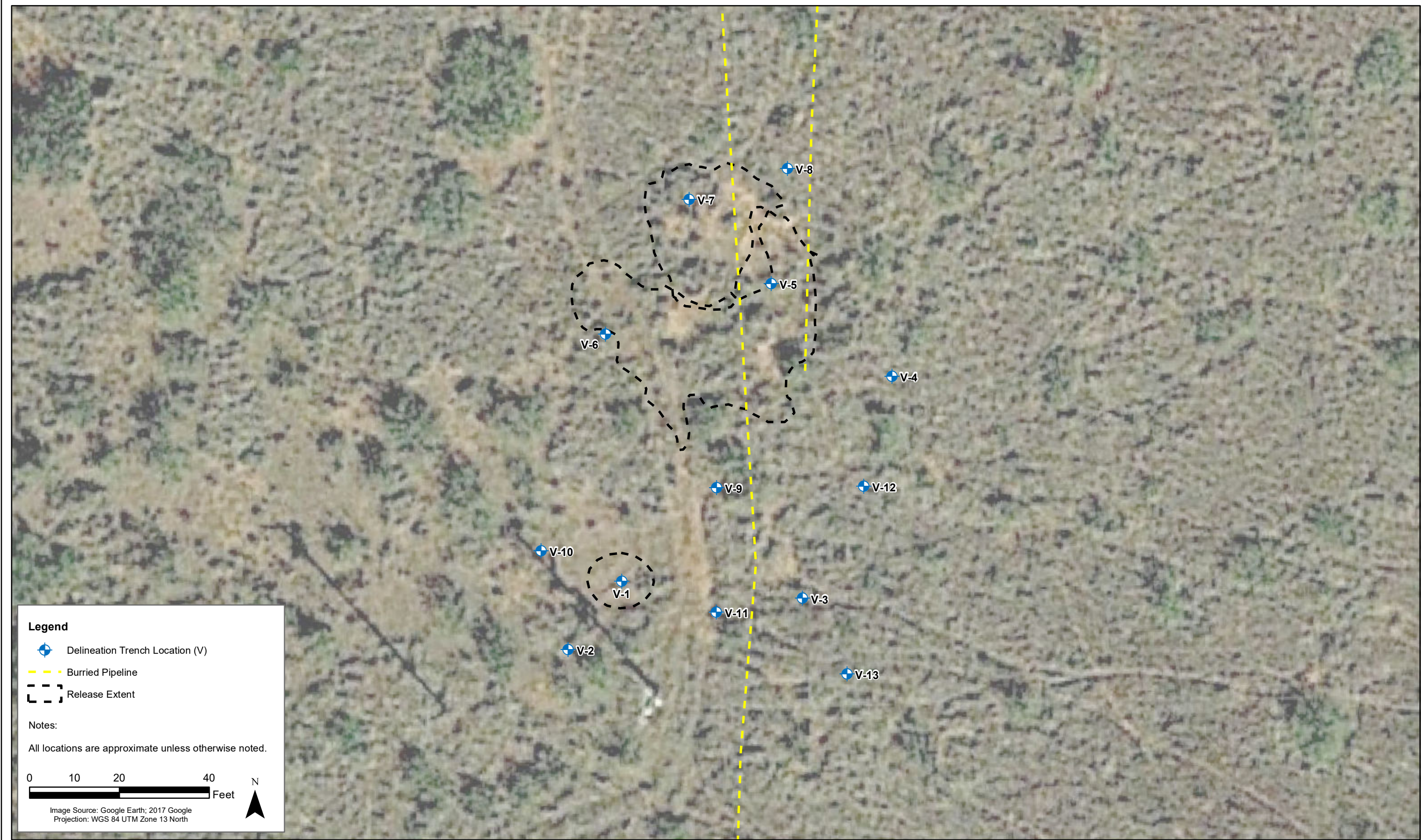
Tasman, Inc.  
2620 W. Marland Ave  
Hobbs, NM 88240

DCP Midstream, LP  
B-10 Line Leak  
NESW S15 T21S R36E  
Lea County, New Mexico

Site Characteristics Map

Figure  
2





DATE:	November 14, 2022
DESIGNED BY:	B. Dennis
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Site Delineation Map

Figure  
3



## **Tables**

TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES  
DCP Midstream, LP  
B-10 Line Leak (8/15/2022)  
NMOCD Incident No. nAPP2223043122

Sample ID	Sample Depth (ft)	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH <sup>2</sup> (mg/kg)				Chrloride <sup>3</sup> (mg/kg)
								GRO	DRO	MRO	TOTAL	
V-1*	0-0.5	10/6/2022	In-Situ	0.8	62	---	---	---	---	---	---	---
	2		In-Situ	29.6	59	---	---	---	---	---	---	
	4		In-Situ	28.5	56	---	---	---	---	---	---	
	6		In-Situ	101.9	56	<0.050	<0.300	<100	4,790	1,680	6,470	32.0
	8		In-Situ	95.0	58	---	---	---	---	---	---	---
	10		In-Situ	117.1	60	---	---	---	---	---	---	---
	12		In-Situ	159.1	57	<0.050	<0.300	<100	6,320	1,670	7,990	32.0
	14		In-Situ	166.3	59	<0.050	<0.300	94.2	8,230	2,170	10,494	32.0
	15	11/7/2022	In-Situ	---	---	<0.050	3.86	192	6,280	1,160	7,632	48.0
	16		In-Situ	---	---	<0.050	4.92	252	9,000	1,770	11,022	48.0
	17		In-Situ	---	---	---	---	206	9,790	2,490	12,486	---
	18		In-Situ	---	---	---	---	<50.0	1,520	469	1,989	---
V-2*	0-0.5	10/6/2022	In-Situ	0.0	60	---	---	---	---	---	---	---
	2		In-Situ	0.1	57	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4		In-Situ	0.0	61	---	---	---	---	---	---	---
	6		In-Situ	0.0	58	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-3*	0-0.5	10/6/2022	In-Situ	0.6	57	---	---	---	---	---	---	---
	2		In-Situ	25.0	56	<0.050	<0.300	<50.0	1,260	620	1,880	32.0
	4		In-Situ	2.2	56	---	---	---	---	---	---	---
	6		In-Situ	0.4	56	<0.050	<0.300	<10.0	153	164	317	16.0
V-4*	0-0.5	10/6/2022	In-Situ	3.2	58	---	---	---	---	---	---	---
	2		In-Situ	6.8	58	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	4		In-Situ	0.9	56	---	---	---	---	---	---	---
	6		In-Situ	1.0	56	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-5*	0-0.5	10/6/2022	In-Situ	52.2	7,548	---	---	---	---	---	---	---
	2		In-Situ	15.9	266	---	---	---	---	---	---	---
	4		In-Situ	49.7	297	---	---	---	---	---	---	---
	6		In-Situ	99.3	59	<0.050	<0.300	<10.0	525	319	844	48.0
	8		In-Situ	25.0	58	---	---	---	---	---	---	---
	10		In-Situ	23.7	60	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-6*	0-0.5	10/6/2022	In-Situ	0.8	56	<0.05	<0.300	<10.0	10.4	<10.0	10.4	32.0
	2		In-Situ	0.4	56	---	---	---	---	---	---	---
	4		In-Situ	0.2	60	---	---	---	---	---	---	---
	6		In-Situ	0.0	60	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-7*	0-0.5	10/6/2022	In-Situ	0.6	58	---	---	---	---	---	---	---
	2		In-Situ	0.6	60	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4		In-Situ	0.3	56	---	---	---	---	---	---	---
	6		In-Situ	0.0	58	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
NMOCD Reclamation Standards <sup>4</sup> (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 <sup>5</sup> (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000		N/A	2,500	20,000

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 SDL
- Red** values denote concentrations above NMOCD Action Levels

- BGS = Below ground surface
- GRO = Gasoline range organics
- DRO = Diesel range organics
- MRO = Motor/lube oil range organics
- PID = Photoionization detector
- = Sample was not analyzed for this analyte
- <SDL = The analyte was not detected above the laboratory sample detection limit (SDL)
- N/A = Not applicable
- Ft. = feet



TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES  
DCP Midstream, LP  
B-10 Line Leak (8/15/2022)  
NMOCD Incident No. nAPP2223043122

Sample ID	Sample Depth (ft)	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH <sup>2</sup> (mg/kg)				Chrloride <sup>3</sup> (mg/kg)
								GRO	DRO	MRO	TOTAL	
V-8*	0-0.5	10/7/2022	In-Situ	0.2	60	---	---	---	---	---	---	---
	2		In-Situ	0.2	57	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4		In-Situ	0.2	58	---	---	---	---	---	---	---
	6		In-Situ	0.2	59	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-9*	0-0.5	10/25/2022	In-Situ	0.2	57	<0.050	<0.300	<50.0	212	62.8	275	<16.0
	2		In-Situ	0.0	58	---	---	---	---	---	---	---
	4		In-Situ	0.2	60	---	---	---	---	---	---	---
	6		In-Situ	0.6	56	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-10*	0-0.5	10/25/2022	In-Situ	0.7	58	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	2		In-Situ	0.1	89	---	---	---	---	---	---	---
	4		In-Situ	0.2	55	---	---	---	---	---	---	---
	6		In-Situ	0.0	59	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-11*	0-0.5	10/25/2022	In-Situ	0.0	57	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	2		In-Situ	0.0	59	---	---	---	---	---	---	---
	4		In-Situ	0.0	58	---	---	---	---	---	---	---
	6		In-Situ	0.0	60	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-12*	0-0.5	10/25/2022	In-Situ	0.4	56	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	2		In-Situ	0.3	59	---	---	---	---	---	---	---
	4		In-Situ	0.2	86	---	---	---	---	---	---	---
	6		In-Situ	0.3	59	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
V-13*	0-0.5	10/25/2022	In-Situ	0.4	57	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	2		In-Situ	0.0	56	---	---	---	---	---	---	---
	4		In-Situ	0.0	85	---	---	---	---	---	---	---
	6		In-Situ	0.0	59	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
NMOCD Reclamation Standards <sup>4</sup> (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 <sup>5</sup> (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000		N/A	2,500	20,000

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).
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- \* = Denotes discrete/grab sample
- Bold** values denote concentrations above laboratory SDL
- Red** values denote concentrations above NMOCD Action Levels

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- DRO = Diesel range organics
- MRO = Motor/lube oil range organics
- PID = Photoionization detector
- = Sample was not analyzed for this analyte
- <SDL = The analyte was not detected above the laboratory sample detection limit (SDL)
- N/A = Not applicable
- Ft. = feet

## **Appendix A – Initial Form C-141 and NMOCD Notifications**

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	nAPP2223043122
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party DCP Operating Company, LP	OGRID 36785
Contact Name Stephen W Weathers	Contact Telephone 303-605-1718
Contact email swweathers@dcpmidstream.com	Incident # (assigned by OCD)
Contact mailing address 6900 E. Layton Avenue - Suite 900 Denver, CO 80237	

### Location of Release Source

Latitude: 32.478108 Longitude: -103.253234  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: B-10 Line Leak	Site Type:
Date Release Discovered: 08/15/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	15	21S	36E	Lea

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

### 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): 14 bbls	Volume Recovered (bbls): N/A
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 4 MCF	Volume Recovered (Mcf): N/A
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

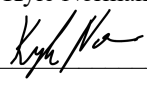
Cause of Release: Internal corrosion of the B-10 pipeline causing the line to rupture.

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

### 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: Kyle Norman	Title: Regional Project Manager
Signature: 	Date: 1/16/2023
email: KNorman@tasman-geo.com	Telephone:
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 01/17/2023

Incident ID	nAPP2223043122
District RP	
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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>~173</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 type="checkbox"/> Yes <input checked="" 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 <b>not</b> 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.

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2223043122
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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:  \_\_\_\_\_ Date: 1/16/2023 \_\_\_\_\_

email: KNorman@tasman-geo.com \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 01/17/2023 \_\_\_\_\_



Incident ID	nAPP2223043122
District RP	
Facility ID	
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: 1/16/2023 \_\_\_\_\_

email: KNorman@tasman-geo.com \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon \_\_\_\_\_ Date: 01/17/2023 \_\_\_\_\_☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Jennifer Nobui \_\_\_\_\_ Date: 02/09/2023 \_\_\_\_\_

## **Appendix B – Depth to Groundwater Information**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00279 POD1</a>		CP	LE	3	1	3	14	21S	36E	665053	3594579*	937	197		
<a href="#">CP 01696 POD1</a>		CP	LE	4	2	2	16	21S	36E	663284	3595313	1006	210	173	37
<a href="#">CP 00505</a>		CP	LE			2	16	21S	36E	662933	3595244*	1290	215	195	20
<a href="#">CP 00941 POD1</a>		CP	LE	3	2	22	21S	36E	664254	3593330		1455	257		

Average Depth to Water: **184 feet**

Minimum Depth: **173 feet**

Maximum Depth: **195 feet**

**Record Count:** 4

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 664138

**Northing (Y):** 3594781

**Radius:** 1700

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.


10/6/22 7:17 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
20669	CP 01696 POD1	4	2	2	16	21S	36E	663284	3595313			
<hr/>												
Driller License:		1755		Driller Company:			HUNGRY HORSE, LLC.					
Driller Name:		JOHN NORRIS										
<hr/>												
Drill Start Date:		12/11/2017		Drill Finish Date:			12/13/2017		Plug Date:			
Log File Date:		01/02/2018		PCW Rcv Date:						Source: Shallow		
Pump Type:					Pipe Discharge Size:						Estimated Yield:	
Casing Size:		6.00		Depth Well:			210 feet		Depth Water:		173 feet	
<hr/>												
Water Bearing Stratifications:				Top	Bottom	Description						
				119	206	Sandstone/Gravel/Conglomerate						
				206	210	Other/Unknown						
<hr/>												
Casing Perforations:				Top	Bottom							
				170	210							
<hr/>												

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.


12/22/22 8:36 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	CP 00505				2	16	21S 36E	662933	3595244*		
<hr/>											
Driller License:		208		Driller Company:			VAN NOY, W.L.				
Driller Name:		VAN NOY, W.L.									
Drill Start Date:		07/08/1972		Drill Finish Date:			07/10/1972		Plug Date:		
Log File Date:		07/19/1972		PCW Rcv Date:					Source:		Shallow
Pump Type:					Pipe Discharge Size:					Estimated Yield:	
Casing Size:		6.63		Depth Well:			215 feet		Depth Water:		195 feet
<hr/>											
		Water Bearing Stratifications:			Top	Bottom	Description				
					200	210	Sandstone/Gravel/Conglomerate				
<hr/>											
		Casing Perforations:			Top	Bottom					
					190	210					
<hr/>											

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

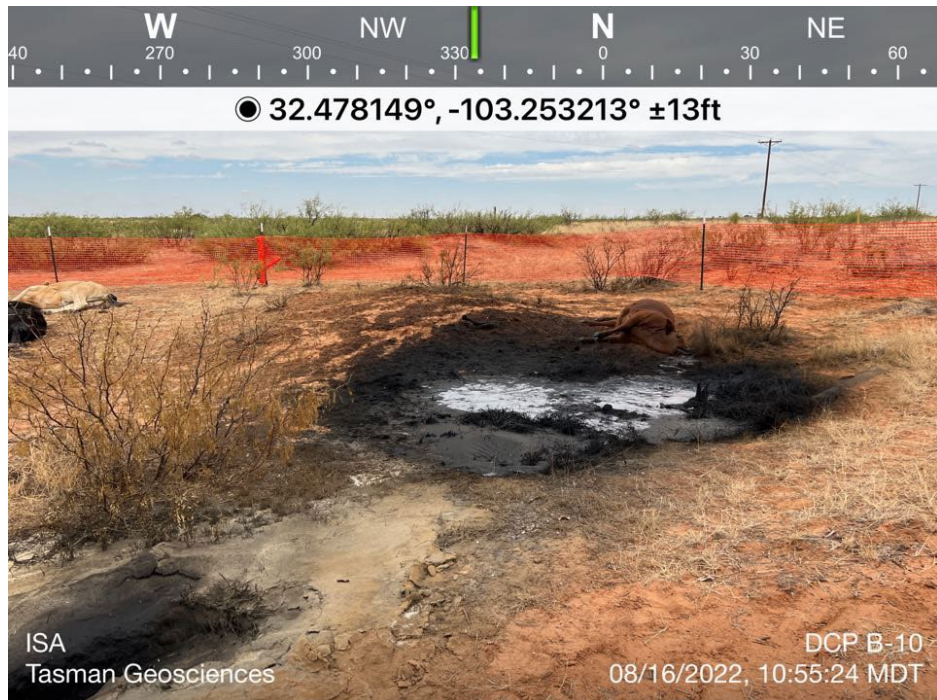
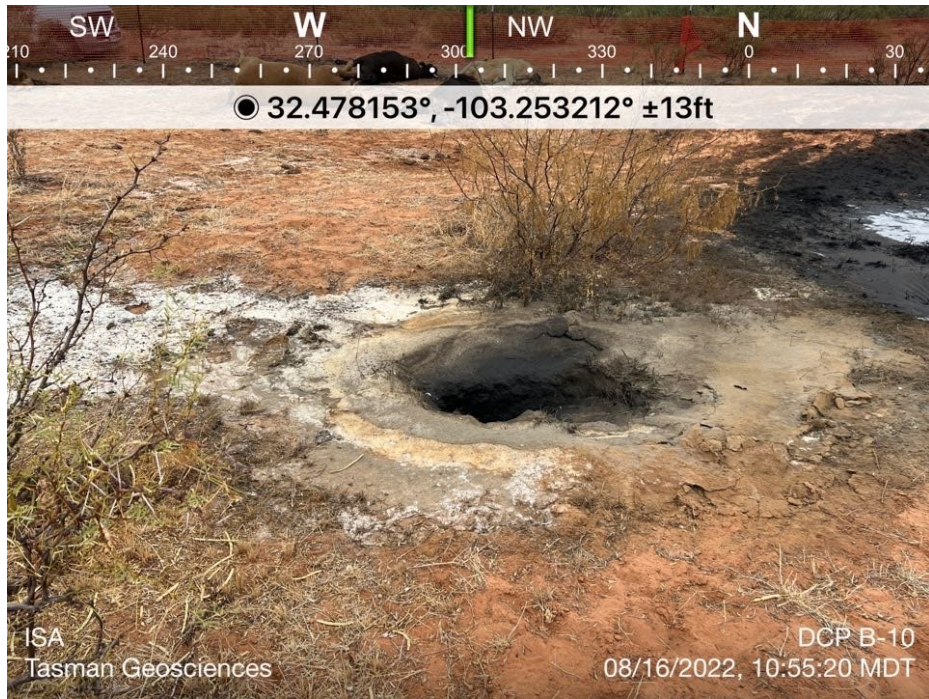
12/22/22 8:37 AM

POINT OF DIVERSION SUMMARY

## **Appendix C – Photographic Logs**

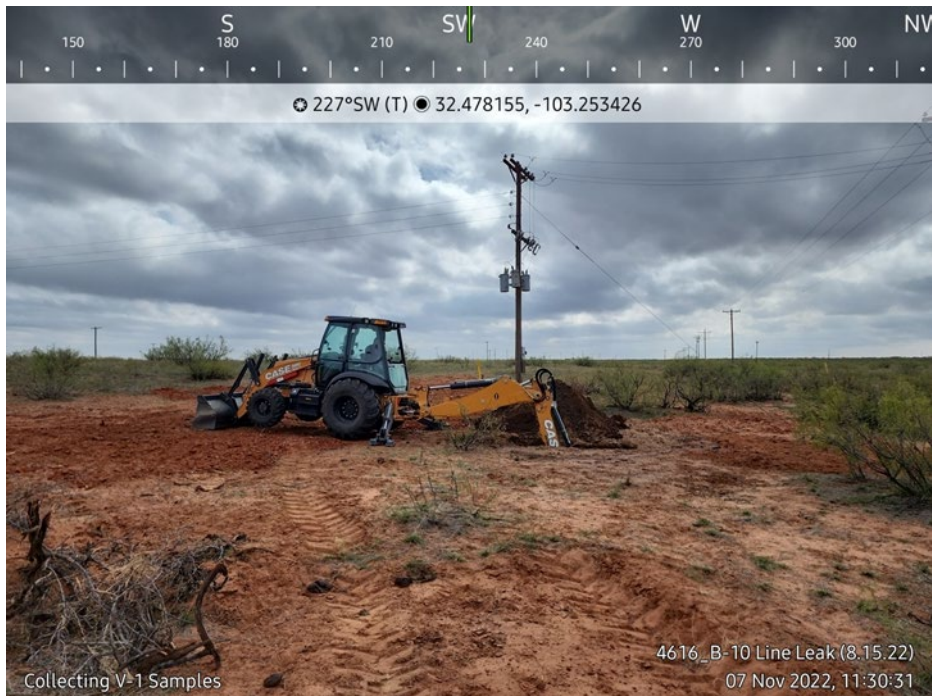


DCP Midstream, LP  
B-10 Line Leak  
NMOCD Incident No. nAPP2223043122





DCP Midstream, LP  
B-10 Line Leak  
NMOCD Incident No. nAPP2223043122



## **Appendix D – Certified Laboratory Analytical Reports**



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

October 10, 2022

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 4616 B-10 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/07/22 16:53.

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](http://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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 1 @ 6' (H224733-04)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	GC-NC	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	GC-NC	
Total BTEX	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	4790	100	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	1680	100	10/10/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 370 % 46.3-178

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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 1 @ 12' (H224733-07)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	GC-NC	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	GC-NC	
Total BTEx	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	6320	100	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	1670	100	10/10/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161

Surrogate: 1-Chlorooctadecane 269 % 46.3-178

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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 1 @ 14' (H224733-08)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	GC-NC
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	GC-NC
Total BTX	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	94.2	50.0	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	8230	50.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	2170	50.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 134 % 45.3-161

Surrogate: 1-Chlorooctadecane 284 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 2 @ 2' (H224733-10)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTX	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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\*=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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 2 @ 6' (H224733-12)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01		
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98		
Total BTX	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 3 @ 2' (H224733-14)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01		
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98		
Total BTX	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	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*	<50.0	50.0	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	1260	50.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	620	50.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 156 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 3 @ 6' (H224733-16)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	153	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	164	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 4 @ 2' (H224733-18)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 4 @ 6' (H224733-20)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 5 @ 6' (H224733-24)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	525	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	319	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 159 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TASMAN GEOSCIENCES  
 KYLE NORMAN  
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 DENVER CO, 80221  
 Fax To:

Received: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 5 @ 10' (H224733-26)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01		
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98		
Total BTEx	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 6 @ 0-0.5' (H224733-27)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTX	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	10.4	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

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\*=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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 6 @ 6' (H224733-30)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01		
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98		
Total BTX	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 7 @ 2' (H224733-32)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 7 @ 6' (H224733-34)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	204	102	200	2.50	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 8 @ 2' (H224733-36)**

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	10/10/2022	ND	2.26	113	2.00	4.84	
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79	
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01	
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	10/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2022	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	10/10/2022	ND	194	97.0	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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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: 10/07/2022  
 Reported: 10/10/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 8 @ 6' (H224733-38)**

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	10/10/2022	ND	2.26	113	2.00	4.84		
Toluene*	<0.050	0.050	10/10/2022	ND	2.15	108	2.00	5.79		
Ethylbenzene*	<0.050	0.050	10/10/2022	ND	2.08	104	2.00	6.01		
Total Xylenes*	<0.150	0.150	10/10/2022	ND	6.35	106	6.00	5.98		
Total BTX	<0.300	0.300	10/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/10/2022	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	10/10/2022	ND	194	97.0	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	186	93.2	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



## ORDINAL 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 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

3 of 4

Company Name: Tasman Geosciences		P.O. #: <b>BILL TO</b>		ANALYSIS REQUEST													
Project Manager: Kyle Norman		Company: Tasman Geo															
Address: 2620 W. Marland Blvd.		Attn: Kyle Norman															
City: Hobbs		Address: 2620 W. Marland															
Phone #: 575-318-5017		City: Hobbs															
Fax #: _____		State: NM Zip: 88240															
Project #: _____		Phone #: 575-318-5017															
Project Name: _____		Fax #: _____															
Project Location: 4616 B-10 Line (Leak) (8.15.22)																	
Sampler Name: Chris Flores																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	HOLD	RUSH	
H224733	V-5 C0-0.5'	C	1	GROUNDWATER			10/6/22	13:40	X	X	X					X	
21	V-5 C0-0.5'	C	1	WASTEWATER				13:45	X	X	X					X	
22	V-5 C0-0.5'	C	1	SOIL				13:50	X	X	X					X	
23	V-5 C0-0.5'	C	1	OIL				13:55	X	X	X					X	
24	V-5 C0-0.5'	C	1	SLUDGE				14:10	X	X	X					X	
25	V-5 C0-0.5'	C	1	OTHER :				14:19	X	X	X					X	
26	V-5 C0-0.5'	C	1	ACID/BASE:				14:30	X	X	X					X	
27	V-5 C0-0.5'	C	1	ICE / COOL				14:40	X	X	X					X	
28	V-5 C0-0.5'	C	1	OTHER :				14:45	X	X	X					X	
29	V-5 C0-0.5'	C	1					14:50	X	X	X					X	
30	V-5 C0-0.5'	C	1														

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Relinquished By: *Ch F* Date: 10/7/22 Time: 11:53 Received By: *Skedigners* Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) 3061000000 Sample Condition Cool Intact ☒ Yes ☐ No Checked By: (Initials) *SK*

Sampler - UPS - Bus - Other: 242 #113 ☒ Yes ☐ No

Phone Result: ☐ Yes ☒ No Add'l Phone #: \_\_\_\_\_  
Fax Result: ☐ Yes ☒ No Add'l Fax #: \_\_\_\_\_

REMARKS:  
email results: knorman@tasman-geo.com;  
bdenis@tasman-geo.com; cflores@tasman-geo.com  
alhyman@dcpmidstream.com  
jhyman@dcpmidstream.com

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





## ORDINAL 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

<b>Company Name:</b> Tasman Geosciences <b>Project Manager:</b> Kyle Norman <b>Address:</b> 2620 W. Marland Blvd. <b>City:</b> Hobbs <b>Phone #:</b> 575-318-5017 <b>Project #:</b> <b>Project Name:</b> <b>Project Location:</b> 4616 B-76 (W. of E. 18. 5. 22) <b>Sampler Name:</b> Chris Flores				<b>P.O. #:</b> <b>Company:</b> Tasman Geo <b>Attn:</b> Kyle Norman <b>Address:</b> 2620 W. Marland <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> 575-318-5017 <b>Fax #:</b>			
<b>BILL TO</b>							
<b>ANALYSIS REQUEST</b>							
<b>Lab I.D.</b> 4224733		<b>Sample I.D.</b> V-70-0-0.5		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE TIME	
31		V-70-0-0.5		10/6/22 15:25		X	
32		V-70-0-0.5		10/6/22 15:30		X	
33		V-70-0-0.5		10/6/22 15:40		X	
34		V-70-0-0.5		10/6/22 15:45		X	
35		V-70-0-0.5		10/6/22 08:25		X	
36		V-70-0-0.5		10/6/22 08:30		X	
37		V-70-0-0.5		10/6/22 08:35		X	
38		V-70-0-0.5		10/6/22 08:40		X	
Relinquished By: [Signature] Date: 10/5/22 Time:				Received By: [Signature] Date: 10/5/22 Time:			
Relinquished By: [Signature] Date: 10/5/22 Time:				Received By: [Signature] Date: 10/5/22 Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: [Signature] (Initials)			
REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; cflores@tasman-geo.com alhyman@dcpmidstream.com jhyman@dcpmidstream.com							



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

---

November 02, 2022

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 4616 B-10 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 15:49.

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](http://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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 9 @ 0-0.5' (H225053-01)**

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	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEX	<0.300	0.300	11/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

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	10/28/2022	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*	<50.0	50.0	10/31/2022	ND	195	97.5	200	12.0	
<b>DRO &gt;C10-C28*</b>	<b>212</b>	50.0	10/31/2022	ND	184	91.9	200	7.08	
<b>EXT DRO &gt;C28-C36</b>	<b>62.8</b>	50.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 9 @ 6' (H225053-03)**

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	11/01/2022	ND	1.96	98.2	2.00	8.21		
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12		
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99		
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48		
Total BTX	<0.300	0.300	11/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 10 @ 0-0.5' (H225053-04)**

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	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTEx	<0.300	0.300	11/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 10 @ 6' (H225053-06)**

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	11/01/2022	ND	1.96	98.2	2.00	8.21	
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12	
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48	
Total BTX	<0.300	0.300	11/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 11 @ 0-0.5' (H225053-07)**

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	11/01/2022	ND	1.96	98.2	2.00	8.21		
Toluene*	<0.050	0.050	11/01/2022	ND	2.07	104	2.00	8.12		
Ethylbenzene*	<0.050	0.050	11/01/2022	ND	2.02	101	2.00	7.99		
Total Xylenes*	<0.150	0.150	11/01/2022	ND	6.09	102	6.00	8.48		
Total BTEX	<0.300	0.300	11/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 11 @ 6' (H225053-09)**

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	10/30/2022	ND	2.00	100	2.00	2.83		
Toluene*	<0.050	0.050	10/30/2022	ND	2.16	108	2.00	1.75		
Ethylbenzene*	<0.050	0.050	10/30/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	10/30/2022	ND	6.41	107	6.00	1.61		
Total BTX	<0.300	0.300	10/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 12 @ 0-0.5' (H225053-10)**

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	10/30/2022	ND	2.00	100	2.00	2.83		
Toluene*	<0.050	0.050	10/30/2022	ND	2.16	108	2.00	1.75		
Ethylbenzene*	<0.050	0.050	10/30/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	10/30/2022	ND	6.41	107	6.00	1.61		
Total BTX	<0.300	0.300	10/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 12 @ 6' (H225053-12)**

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	10/30/2022	ND	2.00	100	2.00	2.83		
Toluene*	<0.050	0.050	10/30/2022	ND	2.16	108	2.00	1.75		
Ethylbenzene*	<0.050	0.050	10/30/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	10/30/2022	ND	6.41	107	6.00	1.61		
Total BTEx	<0.300	0.300	10/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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\*=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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 13 @ 0-0.5' (H225053-13)**

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	10/30/2022	ND	2.00	100	2.00	2.83		
Toluene*	<0.050	0.050	10/30/2022	ND	2.16	108	2.00	1.75		
Ethylbenzene*	<0.050	0.050	10/30/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	10/30/2022	ND	6.41	107	6.00	1.61		
Total BTEx	<0.300	0.300	10/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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: 10/26/2022  
 Reported: 11/02/2022  
 Project Name: 4616 B-10 LINE LEAK  
 Project Number: ( 8.15.22 )  
 Project Location: NONE GIVEN

Sampling Date: 10/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V - 13 @ 6' (H225053-15)**

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	10/30/2022	ND	2.00	100	2.00	2.83		
Toluene*	<0.050	0.050	10/30/2022	ND	2.16	108	2.00	1.75		
Ethylbenzene*	<0.050	0.050	10/30/2022	ND	2.14	107	2.00	1.85		
Total Xylenes*	<0.150	0.150	10/30/2022	ND	6.41	107	6.00	1.61		
Total BTX	<0.300	0.300	10/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

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	10/28/2022	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	10/31/2022	ND	195	97.5	200	12.0	
DRO >C10-C28*	<10.0	10.0	10/31/2022	ND	184	91.9	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	10/31/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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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



**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**

\* 1 of 2

<b>Company Name:</b> Tasman Geosciences		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
<b>Project Manager:</b> Kyle Norman		<b>P.O. #:</b>																	
<b>Address:</b> 2620 W. Marland Blvd.		<b>Company:</b> Tasman Geo																	
<b>City:</b> Hobbs		<b>Attn:</b> Kyle Norman																	
<b>Phone #:</b> 575-318-5017		<b>Address:</b> 2620 W. Marland																	
<b>Fax #:</b>		<b>City:</b> Hobbs																	
<b>Project #:</b>		<b>State:</b> NM																	
<b>Project Name:</b>		<b>Zip:</b> 88240																	
<b>Project Location:</b> 4616 B-10 Line Leak (8.15.22)		<b>Phone #:</b> 575-318-5017																	
<b>Sampler Name:</b> Chris Flores		<b>Fax #:</b>																	
<b>FOR LAB USE ONLY</b>		<b>PRESERV</b>		<b>SAMPLING</b>															
<b>Lab I.D.</b>		<b>MATRIX</b>		<b>DATE</b>		<b>TIME</b>													
<b>Sample I.D.</b>		<b>GROUNDWATER</b>		<b>ACID/BASE:</b>		<b>ICE / COOL</b>		<b>OTHER :</b>											
<b>1</b>		<b>WASTEWATER</b>		<b>OTHER :</b>		<b>OTHER :</b>		<b>OTHER :</b>											
<b>2</b>		<b>SOIL</b>		<b>DATE</b>		<b>TIME</b>		<b>Chlorides</b>											
<b>3</b>		<b>OIL</b>		<b>10/25/22</b>		<b>10:30</b>		<b>TPH 8015 M</b>											
<b>4</b>		<b>SLUDGE</b>		<b>10:40</b>		<b>11:00</b>		<b>BTEX</b>											
<b>5</b>		<b>OTHER :</b>		<b>11:40</b>		<b>11:40</b>		<b>Texas TPH</b>											
<b>6</b>		<b>ACID/BASE:</b>		<b>11:45</b>		<b>11:58</b>		<b>Complete Cations/Anions</b>											
<b>7</b>		<b>ICE / COOL</b>		<b>14:15</b>		<b>14:15</b>		<b>TDS</b>											
<b>8</b>		<b>OTHER :</b>		<b>14:20</b>		<b>14:30</b>		<b>HOLD</b>											
<b>9</b>		<b>OTHER :</b>		<b>14:30</b>		<b>14:30</b>		<b>RUSH</b>											
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<b>Relinquished By:</b>		<b>Date:</b> 10/26/22		<b>Received By:</b>		<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Add'l Phone #:</b>											
<b>Delivered By:</b> (Circle One) 4.5c) C.O.U. 3.9c) #113		<b>Sample Condition</b>		<b>CHECKED BY:</b> (Initials)		<b>REMARKS:</b>		<b>email results:</b> knorman@tasman-geo.com; bdennis@tasman-geo.com; cflores@tasman-geo.com alhyman@dcpmidstream.com jhyman@dcpmidstream.com											
<b>Sampler - UPS - Bus - Other:</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b> (Initials)		<b>REMARKS:</b>		<b>email results:</b> knorman@tasman-geo.com; bdennis@tasman-geo.com; cflores@tasman-geo.com alhyman@dcpmidstream.com jhyman@dcpmidstream.com											
<b>Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b> (Initials)		<b>REMARKS:</b>		<b>email results:</b> knorman@tasman-geo.com; bdennis@tasman-geo.com; cflores@tasman-geo.com alhyman@dcpmidstream.com jhyman@dcpmidstream.com											





## ORDINAL LABORATORIES

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CHAIN 2 OF 2

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

---

November 14, 2022

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 4616 B-10 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 8:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V - 1 @ 15'	H225312-01	Soil	07-Nov-22 11:30	10-Nov-22 08:28
V - 1 @ 16'	H225312-02	Soil	07-Nov-22 11:40	10-Nov-22 08:28
V - 1 @ 17'	H225312-03	Soil	07-Nov-22 12:00	10-Nov-22 08:28
V - 1 @ 18'	H225312-04	Soil	07-Nov-22 12:20	10-Nov-22 08:28

11/14/22 - Client added TPH to samples -03 and -04 (see COC). This is the revised report and will replace the one sent on 11/11/22.

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\*=Accredited Analyte

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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

V - 1 @ 15'  
H225312-01 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	2111021	GM	10-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	2110919	JH	10-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC
Ethylbenzene*	0.685		0.050	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC1
Total Xylenes*	3.18		0.150	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC1
Total BTEX	3.86		0.300	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 223 % 69.9-140 2110919 JH 10-Nov-22 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	192		100	mg/kg	10	2111009	MS	10-Nov-22	8015B	
DRO >C10-C28*	6280		100	mg/kg	10	2111009	MS	10-Nov-22	8015B	
EXT DRO >C28-C36	1160		100	mg/kg	10	2111009	MS	10-Nov-22	8015B	

Surrogate: 1-Chlorooctane 169 % 45.3-161 2111009 MS 10-Nov-22 8015B

Surrogate: 1-Chlorooctadecane 224 % 46.3-178 2111009 MS 10-Nov-22 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

**V - 1 @ 16'**  
**H225312-02 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2111021	GM	10-Nov-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	2110919	JH	10-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC
Ethylbenzene*	<b>0.906</b>		0.050	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>4.02</b>		0.150	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC1
<b>Total BTEX</b>	<b>4.92</b>		0.300	mg/kg	50	2110919	JH	10-Nov-22	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 217 % 69.9-140 2110919 JH 10-Nov-22 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>252</b>		100	mg/kg	10	2111009	MS	10-Nov-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>9000</b>		100	mg/kg	10	2111009	MS	10-Nov-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1770</b>		100	mg/kg	10	2111009	MS	10-Nov-22	8015B	

Surrogate: 1-Chlorooctane 194 % 45.3-161 2111009 MS 10-Nov-22 8015B

Surrogate: 1-Chlorooctadecane 391 % 46.3-178 2111009 MS 10-Nov-22 8015B

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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  
6899 PECOS ST. UNIT C  
DENVER CO, 80221

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

V - 1 @ 17'  
H225312-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>206</b>		100	mg/kg	10	2111106	MS	11-Nov-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>9790</b>		100	mg/kg	10	2111106	MS	11-Nov-22	8015B	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>2490</b>		100	mg/kg	10	2111106	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			124 %	45.3-161		2111106	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			247 %	46.3-178		2111106	MS	11-Nov-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

**V - 1 @ 18'**  
**H225312-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<50.0		50.0	mg/kg	5	2111106	MS	11-Nov-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1520</b>		50.0	mg/kg	5	2111106	MS	11-Nov-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>469</b>		50.0	mg/kg	5	2111106	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			79.8 %	45.3-161		2111106	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			103 %	46.3-178		2111106	MS	11-Nov-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2111021 - 1:4 DI Water</b>									
<b>Blank (2111021-BLK1)</b>					Prepared & Analyzed: 10-Nov-22				
Chloride	ND	16.0	mg/kg						
<b>LCS (2111021-BS1)</b>					Prepared & Analyzed: 10-Nov-22				
Chloride	400	16.0	mg/kg	400		100	80-120		
<b>LCS Dup (2111021-BSD1)</b>					Prepared & Analyzed: 10-Nov-22				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20

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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2110919 - Volatiles****Blank (2110919-BLK1)**

Prepared: 09-Nov-22 Analyzed: 10-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		90.9	69.9-140			

**LCS (2110919-BS1)**

Prepared: 09-Nov-22 Analyzed: 10-Nov-22

Benzene	1.95	0.050	mg/kg	2.00		97.6	83.4-122			
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126			
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	1.98	0.050	mg/kg	2.00		99.2	84.3-123			
Total Xylenes	6.17	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0434		mg/kg	0.0500		86.8	69.9-140			

**LCS Dup (2110919-BSD1)**

Prepared: 09-Nov-22 Analyzed: 10-Nov-22

Benzene	1.97	0.050	mg/kg	2.00		98.3	83.4-122	0.742	12.6	
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126	1.99	13.3	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121	2.17	13.9	
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	89.9-126	1.12	13.6	
o-Xylene	1.98	0.050	mg/kg	2.00		99.2	84.3-123	0.0366	14.1	
Total Xylenes	6.22	0.150	mg/kg	6.00		104	89.1-124	0.776	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0441		mg/kg	0.0500		88.2	69.9-140			

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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2111009 - General Prep - Organics****Blank (2111009-BLK1)**

Prepared &amp; Analyzed: 10-Nov-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.6	45.3-161			
Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	46.3-178			

**LCS (2111009-BS1)**

Prepared &amp; Analyzed: 10-Nov-22

GRO C6-C10	203	10.0	mg/kg	200		102	76.8-124			
DRO >C10-C28	184	10.0	mg/kg	200		92.2	74.9-127			
Total TPH C6-C28	388	10.0	mg/kg	400		96.9	77.5-124			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	45.3-161			
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	46.3-178			

**LCS Dup (2111009-BS1)**

Prepared &amp; Analyzed: 10-Nov-22

GRO C6-C10	200	10.0	mg/kg	200		99.8	76.8-124	1.73	17.2	
DRO >C10-C28	179	10.0	mg/kg	200		89.4	74.9-127	3.06	18.6	
Total TPH C6-C28	378	10.0	mg/kg	400		94.6	77.5-124	2.36	17.6	
Surrogate: 1-Chlorooctane	55.4		mg/kg	50.0		111	45.3-161			
Surrogate: 1-Chlorooctadecane	57.9		mg/kg	50.0		116	46.3-178			

**Batch 2111106 - General Prep - Organics****Blank (2111106-BLK1)**

Prepared &amp; Analyzed: 11-Nov-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	45.3-161			
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		95.9	46.3-178			

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**Analytical Results For:**

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

Project: 4616 B-10 LINE LEAK  
Project Number: NONE GIVEN  
Project Manager: KYLE NORMAN  
Fax To:

Reported:  
14-Nov-22 10:15

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2111106 - General Prep - Organics****LCS (2111106-BS1)**

Prepared &amp; Analyzed: 11-Nov-22

GRO C6-C10	219	10.0	mg/kg	200		110	76.8-124			
DRO >C10-C28	235	10.0	mg/kg	200		117	74.9-127			
Total TPH C6-C28	454	10.0	mg/kg	400		114	77.5-124			
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	45.3-161			
Surrogate: 1-Chlorooctadecane	58.6		mg/kg	50.0		117	46.3-178			

**LCS Dup (2111106-BSD1)**

Prepared &amp; Analyzed: 11-Nov-22

GRO C6-C10	223	10.0	mg/kg	200		111	76.8-124	1.58	17.2	
DRO >C10-C28	235	10.0	mg/kg	200		117	74.9-127	0.0682	18.6	
Total TPH C6-C28	457	10.0	mg/kg	400		114	77.5-124	0.732	17.6	
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	45.3-161			
Surrogate: 1-Chlorooctadecane	59.3		mg/kg	50.0		119	46.3-178			

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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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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		P.O. #:		BILL TO		ANALYSIS REQUEST																	
Project Manager: Kyle Norman		Company: Tasman Geo																					
Address: 2620 W. Marland Blvd.		Attn: Kyle Norman																					
City: Hobbs		Address: 2620 W. Marland																					
Phone #: 575-318-5017		City: Hobbs																					
Fax #: 575-318-5017		State: NM Zip: 88240																					
Project #: Project Owner: DCP Midstream		State: NM Zip: 88240																					
Project Name:		Phone #: 575-318-5017																					
Project Location: 4616_B-10 Line		Fax #:																					
Sampler Name: Chris Flores																							
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	HOLD	RUSH	
H225312	V-1 @ 15'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	11/7/22	11:30	✓	✓	✓	✓	✓	✓	✓	✓	
	V-1 @ 16'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	11:40	11:40	✓	✓	✓	✓	✓	✓	✓	✓	
	V-1 @ 17'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	12:00	12:00	✓	✓	✓	✓	✓	✓	✓	✓	
	V-1 @ 18'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	12:20	12:20	✓	✓	✓	✓	✓	✓	✓	✓	
Relinquished By: [Signature]		Date: 11/10/22		Received By: [Signature]		Date: 11/10/22		Time: 08:28		Sample Condition		CHECKED BY: [Signature]		REMARKS:									
Relinquished By: [Signature]		Date: 11/10/22		Received By: [Signature]		Date: 11/10/22		Time: 08:28		Sample Condition		CHECKED BY: [Signature]		REMARKS:									
Delivered By: (Circle One)		Cool		Intact		Yes		No		Yes		No		Yes		No		Yes		No		Yes	
Sampler - UPS - Bus - Other: -12.02/-12.62		#113		Cool		Intact		Yes		No		Yes		No		Yes		No		Yes		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 176429

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 176429
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Variance approved: Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.	2/9/2023