# M-28 LINE LEAK Remediation Action Plan

NMOCD Incident No. nAPP2319359955 UL "O", Sec. 32, T18S, R30E 32.697537, -103.99317 Eddy County, New Mexico

September 26, 2024



## PREPARED ON BEHALF OF

DCP Operating Company, LP 6900 E. Layton Ave, Suite 900 Denver, CO 80237



#### **PREPARED BY**

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





September 26, 2024

DCP Operating Company, LP 6900 E. Layton Ave., Suite 900 Denver, Colorado 80237

Attn: Mr. Steve Weathers

Email: <a href="mailto:stephen.weathers@p66.com">stephen.weathers@p66.com</a>

Re: Remediation Action Plan

M-28 Line Leak

UL "O", Section 32, Township 18 South, Range 30 East

Eddy County, New Mexico

NMOCD Incident No. nAPP2319359955

Tasman Project No. 6062

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 release of produced water to the environment.

Tasman conducted initial assessment activities, identifying an approximately 4,600 square foot area that had been impacted by the release and an approximate 12,700 square foot overspray area. The release area was then vertically, and horizontally delineated. Based on laboratory analytical results from soil samples collected during assessment sampling activities, impacted soil within the release area has been or will be 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 Operating Company, LP. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Sincerely,

Tasman, Inc.

Brett Dennis
Project Manager
bdennis@tasman-geo.com

Kyle Norman
SW Regional Manager
knorman@tasman-geo.com



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### 1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the M-28 Line Leak (site) on behalf of DCP Operating Company, LP (DCP), documenting the results of field activities conducted in response to a release of produced water to environmental media.

## 1.1 Site Description

The site is located in Unit Letter "O" of Section 32, Township 18 South, Range 30 East in Eddy County, New Mexico. The release occurred from the M-28 natural gas pipeline. The release occurred on New Mexico State Land Office (NMSLO) property.

## 1.2 Release Detail and Initial Response

On July 11, 2023, the M-28 pipeline was discovered by DCP personnel to have failed due to a blow out. On July 19, 2023, DCP provided notice of release to the NMOCD portal and to the NMSLO by email on October 31, 2023. The release resulted in the loss of approximately 9 barrels (bbls) of produced water 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 produced water was recovered.

A copy of the NMOCD and NMSLO notifications are provided in Appendix A.

## 2.0 SITE CHARACTERISTICS

## 2.1 Depth to Groundwater

Tasman reviewed available depth to groundwater information available through the New Mexico Office of the State Engineer (NMOSE) and the United States Geologic Survey (USGS) for registered water wells within a half-mile radius of the site. The well with available groundwater level data is located 0.10 miles northwest of the site, identified as USGS 324154103593301. Depth to groundwater was measured at 161 feet below ground surface (ft bgs) in 1971.

The Site Location & Groundwater Map included as Figure 1 illustrates the location of the registered water wells within the vicinity of the site, and a summary of depth to groundwater information is provided as Appendix B.



## 2.2 Karst Potential & Subsurface Mines

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.

Tasman utilized the USGS Mineral Resources database to determine that there are no subsurface mines beneath or in the vicinity of the site.

Areas of high/critical karst and subsurface mine locations are illustrated on Figure 2.

## 2.3 Distance to Nearest Potable Water Well

The nearest potable water well is the well gauged on April 8, 1971, that is assumed to be USGS 324154103593301. The well is located 0.46 miles from the site. The location of USGS 324154103593301 is shown on the attached Figure 1.

#### 2.4 Distance to Nearest Surface Water

Tasman reviewed aerial imagery and the National Wetland Inventory Map, published by the U.S. Fish and Wildlife Service, for wetlands and surface water in the vicinity of the site. The nearest wetland, freshwater emergent wetland, is located approximately 0.19 miles from the site. The nearest significant surface water was identified as Hackberry Lake, located 6.39 miles from the site. The location of the nearest surface water body can be seen on Figures 1 and 3.

## 2.5 100-year Floodplain

Review of flood map data published by the Federal Emergency Management Agency (FEMA) indicates the site is not located within a 100-year floodplain. A copy of the FEMA FIRMete Map can be found attached as Figure 4.

## 2.6 Residence, School, Hospital, or Institution

Review of aerial imagery did not show that the site is within 300 feet of an occupied permanent residence, school, hospital, or institution.



## 2.7 Archaeological & Biological Survey/Review

On September 5. 2023, a third party conducted a review of the New Mexico Cultural Resource Information System (NMCRIS) as Activity Number 153815 and performed field investigation on September 8, 2023. Neither desktop or field investigation showed evidence of cultural resources at the site. A copy of the NMCRIS Investigation Abstract Form can be provided upon request.

On September 18, 2024, the Center for Environmental Heath Monitoring and Management (CEHMM) was consulted on potential habitat for listed endangered species. The site has been identified as suitable habitat for the dunes sagebrush lizard.

## 2.8 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:	161 1	ft bgs
Within an area of high karst potential?	☐ Yes	☑ No
Within 300 ft. of any continuously flowing of significant watercourse?	☐ Yes	☑ No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	☐ Yes	☑ No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	☐ Yes	☑ No
Within 500 ft. of a spring or private, domestic fresh water well?	☐ Yes	☑ No
Within 1,000 ft. of any fresh water well?	☐ Yes	☑ No
Within the incorporated municipal boundaries or within a municipal well field?	☐ Yes	☑ No
Within 300 ft. of a wetland?	☐ Yes	☑ No
Within the area overlying a subsurface mine?	☐ Yes	☑ No
Within an unstable area?	☐ Yes	☑ No
Within a 100-year floodplain?	☐ Yes	☑ No

## 3.0 REMEDIATION ACTION 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, groundwater beneath the site is believed to be greater than 100 ft bgs. A soil bore will be advanced at the site to a depth of at least 105 ft bgs. After 48 hours, Tasman will measure the soil bore for presence of water. Assuming depth to groundwater will be greater than 100 feet, the NMOCD Action Levels for a site with a depth to groundwater greater than 100 feet bgs were utilized; these Action Levels are as follows:



Constituent	Remediation 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

Should groundwater be encountered shallower than stated above. A letter informing the NMOCD and NMSLO will be provided prior to confirmation sampling, as a notice of revised Remediation Levels for the site.

### 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 October 17 and 18, 2023, Tasman was retained by DCP to respond to a release of produced water at the site. Initial observations indicated a release area of approximately 4,600 square feet (ft²), with an overspray area approximately 12,700 ft². A photographic log of the release area is included as Appendix C. Nineteen soil borings (HA-1 through HA-19) were advanced by hand auger to depths ranging from 4 to 8 ft bgs.

On February 13, 2024, Tasman advanced three delineation trenches using machinal equipment, referred to as verticals (V-1 through V-3), to delineate the release area. Verticals were advanced to a depth of 8 ft bgs. Additionally, HA-5 was further delineated to a depth of 12 ft bgs.

The attached Figure 5 illustrates the observed release and location of soil sample locations.



## 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 selected soil sample was analyzed using Environmental Protection Agency (EPA) methods 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 Area Assessment Data Evaluation

Concentrations of benzene and total BTEX were not detected above NMOCD Action Levels throughout.

Concentrations of total TPH were detected above Reclamation Levels in HA-12 at the surface ft bgs (199 milligram per kilogram [mg/kg]). The remaining samples exhibited concentrations ranging from 20.2 mg/kg to 28.2 mg/kg.

Concentrations of chlorides were detected above Reclamation Levels in several soil samples (HA-1, HA-5, HA-8 through HA-10, HA-12, HA-13 and HA-18), with concentrations ranging from 704 mg/kg to 14,200 mg/kg. The remaining samples exhibited concentrations ranging from 16 mg/kg to 2,560 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 surrounding HA-5 and HA-10 to a depth of 6 ft bgs, HA-9 to a depth of 4 ft bgs and HA-11 to a depth of 5 ft bgs. Additionally, the areas surrounding HA-8, HA-12, HA-13 and HA-18 will be scraped to a depth of 1 to 2 ft bgs. Excavated soil will be staged on-site atop a polyethylene liner pending transportation under manifest to an NMOCD approved disposal facility.

Once field data indicates that the release area has been remediated to NMOCD requirements established in Section 3.0, Tasman will collect five-point confirmation samples from the base and sidewalls of the excavation. The collected confirmation soil samples will represent an area no greater than 400 ft<sup>2</sup>. Confirmation sampling activities and laboratory analysis will be conducted as described in Sections 4.1 and 4.2.

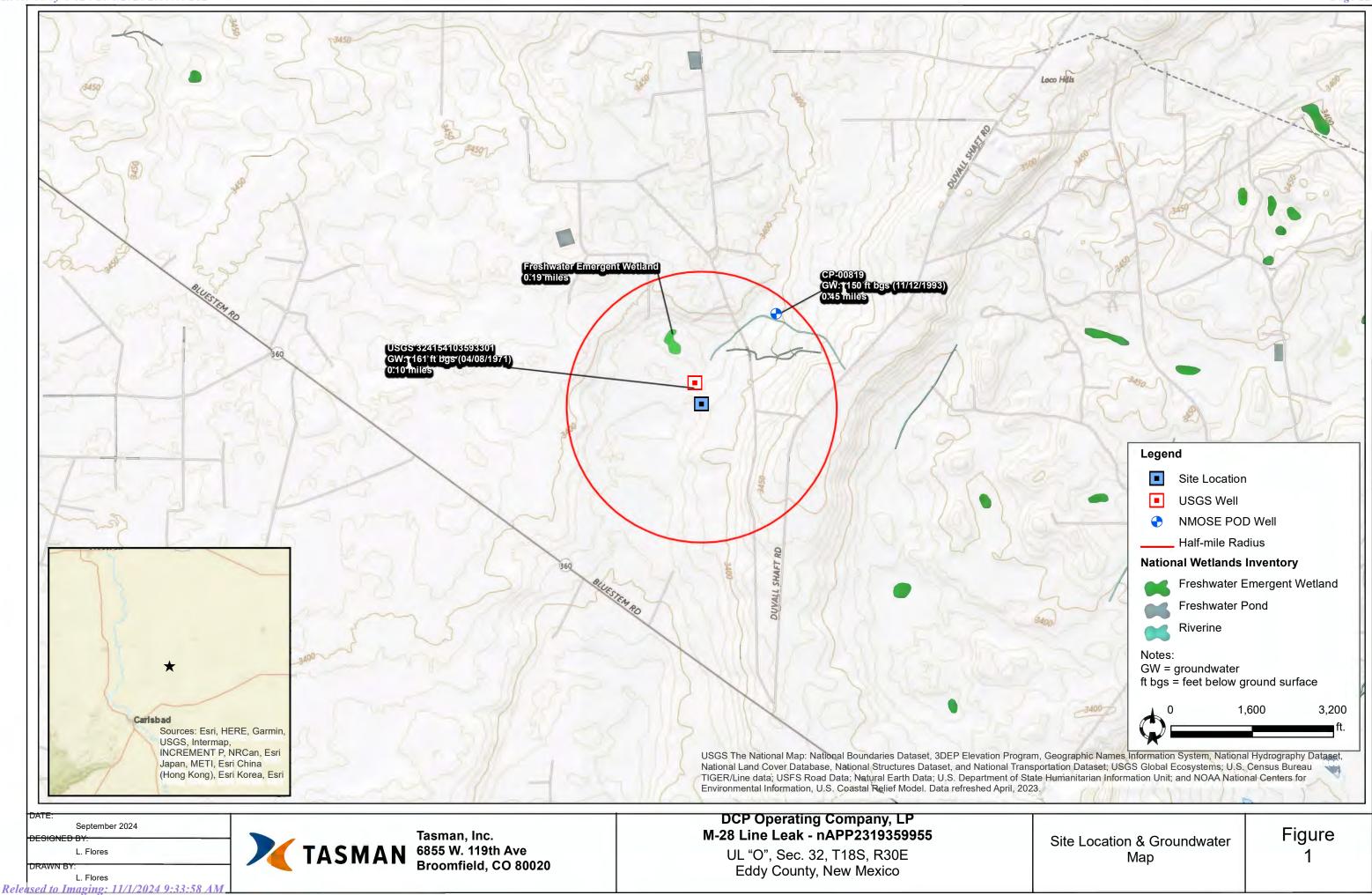
## 6.0 PROPOSED RECLAMATION AND REVEGETATION

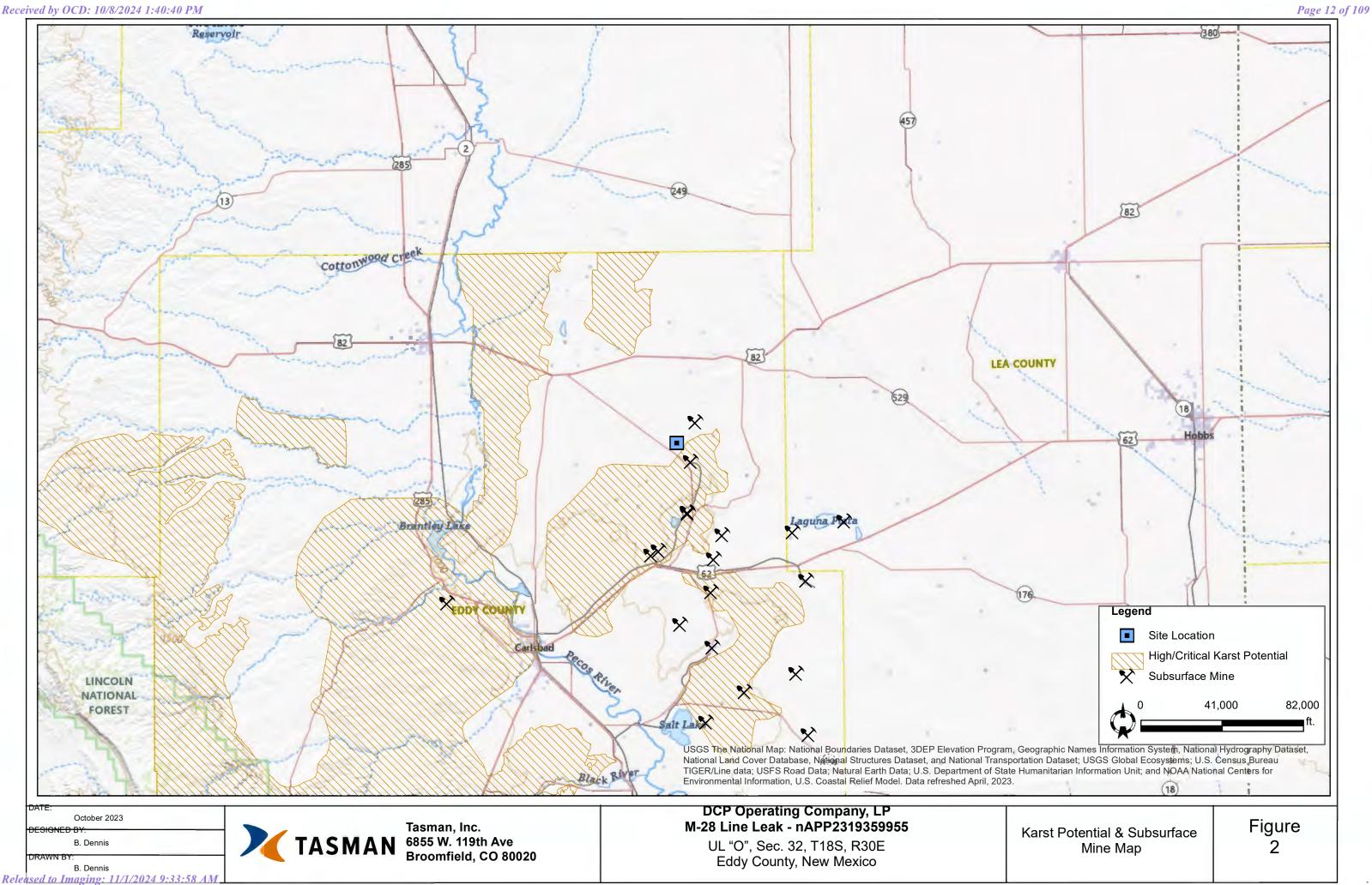
Upon receipt of confirmation samples that indicate remediation objectives have been met, areas affected by the release and associated remediation activities will be restored to the condition which existed prior to the release to the maximum extent possible. Excavated areas will be backfilled with non-impacted "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, Tasman will seed the area using the approved seed mixture during the next favorable growing season. The seed mix will be broadcast at a rate two times the suggested amount to ensure the greatest likelihood for sufficient germination. The seed will be "set" using mechanical means (e.g., screen or disc harrow) following the seeding event.

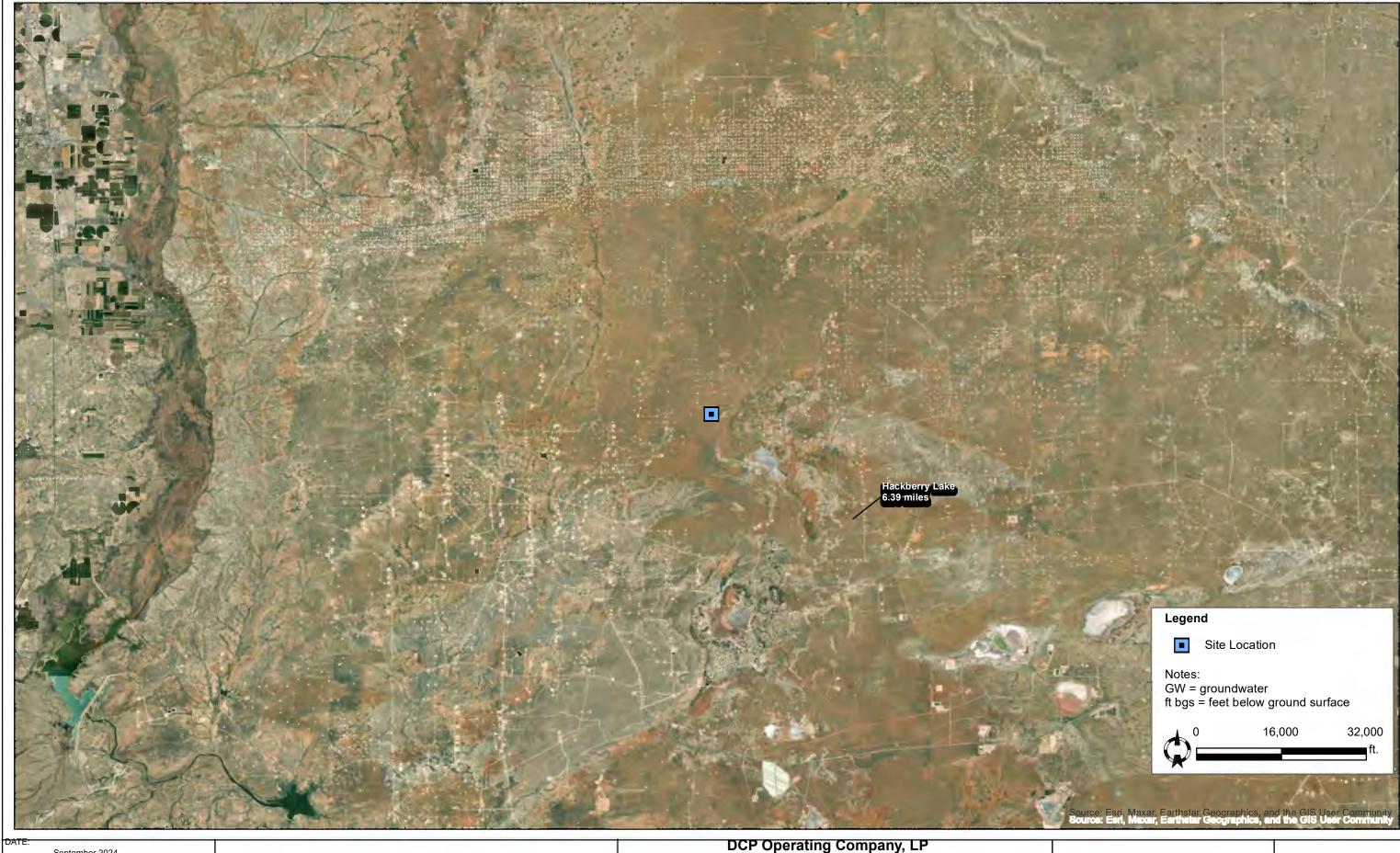
**Figures** 

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September 2024 L. Flores L. Flores Released to Imaging: 11/1/2024 9:33:58 AM

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

DCP Operating Company, LP M-28 Line Leak - nAPP2319359955

UL "O", Sec. 32, T18S, R30E Eddy County, New Mexico

Surface Water Map

Figure 3

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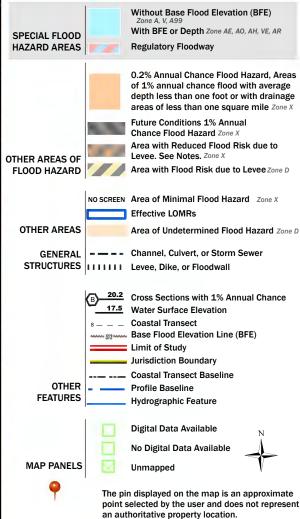
## National Flood Hazard Layer FIRMette



Legend

Figure 4

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

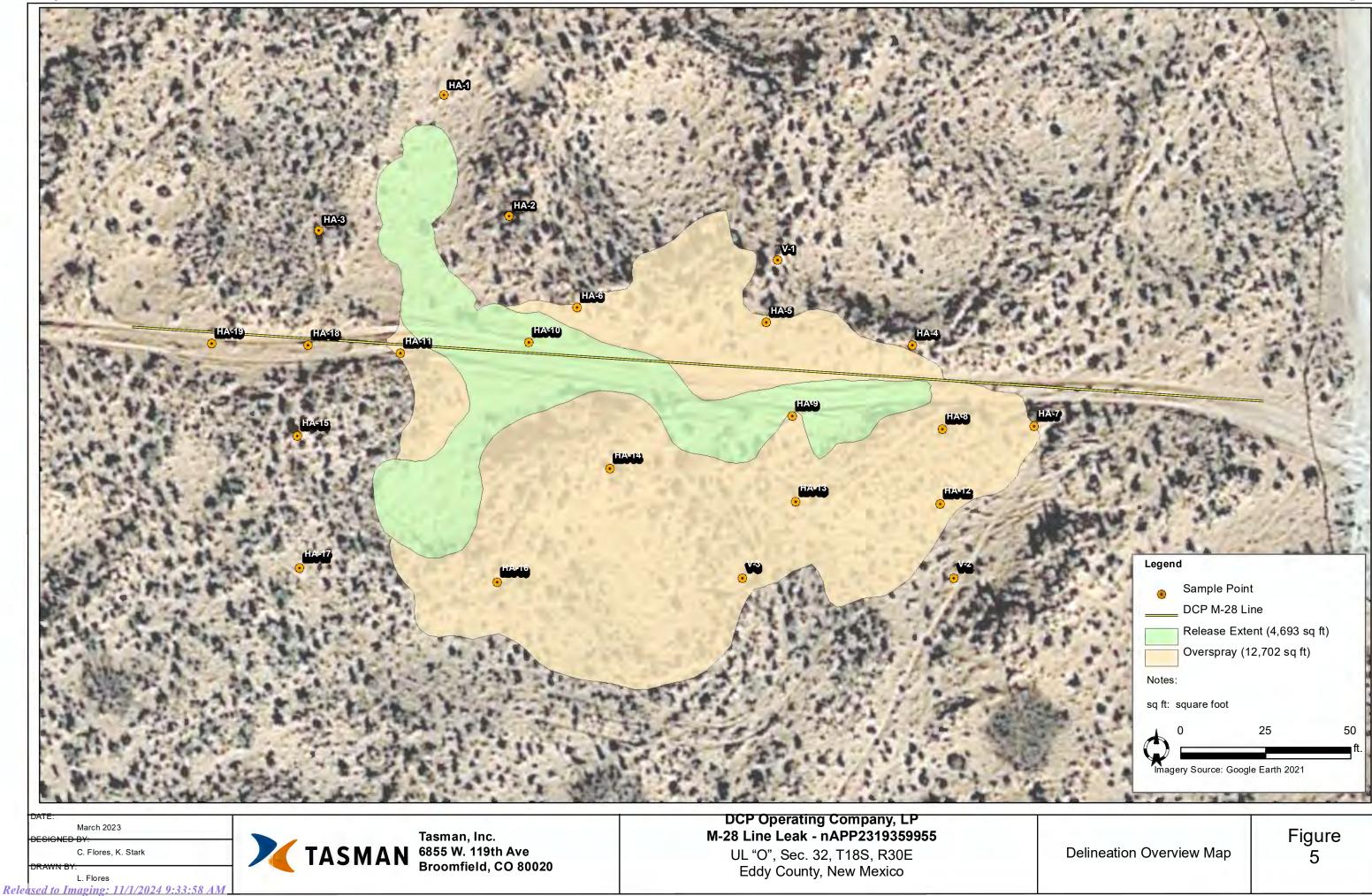
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/19/2024 at 11:30 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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**Table** 

# TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES DCP Operating Company M-28 Line Leak NMOCD Incident No. nAPP2319359955

	Commis		Coll	DID.	Field Chloride	Dannana	T-4-I DTEV <sup>1</sup>		TDU <sup>2</sup> /	ma/ka)		Chlastida <sup>3</sup>
Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	GRO	DRO	mg/kg) MRO	TOTAL	Chloride <sup>3</sup> (mg/kg)
	0-0.5'		In-Situ		149							
	1'		In-Situ		49							
HA-1	2'	10/17/2023	In-Situ		151							
	3' 4'	-	In-Situ In-Situ	0.70	158 151	<0.0500 <0.0500	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	16.0 16.0
	0-0.5'		In-Situ		148							
	1'	1	In-Situ		152	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
HA-2	2'	10/17/2023	In-Situ		146							
	3'		In-Situ		145							
	4'		In-Situ	1.50	147	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	0-0.5' 1'	4	In-Situ In-Situ		159 148	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
HA-3	2'	10/18/2023	In-Situ In-Situ		147							
	3'	10,10,2020	In-Situ		149							
	4'		In-Situ		150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	0-0.5'		In-Situ		149							
	1'	40/47/2022	In-Situ		149							
HA-4	2' 3'	10/17/2023	In-Situ In-Situ		210 146	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
	4'	1	In-Situ	0.30	297	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	288
	0-0.5'		In-Situ		602							
	1'		In-Situ		347							
	2'		In-Situ		779							
	3'	10/17/2022	In-Situ		1,177							4.000
HA-5	4' 5'	10/17/2023	In-Situ In-Situ		1,847 752	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	1,600
114-3	6'	1	In-Situ In-Situ		147	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	192
	7'	1	In-Situ		149							
	8'		In-Situ		167	<0.0500	<0.300	<10.0	114	27.2	138	272
	10'	2/13/2024	In-Situ	1.0	298	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
	12'	-,,	In-Situ	1.4	149	<0.0500	<0.300	<10.0	36.0	<10.0	36.0	256
	0-0.5' 1'	-	In-Situ In-Situ		306 312	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	320
HA-6	2'	10/17/2023	In-Situ		146							
	3'	1 ' '	In-Situ		146							
	4'		In-Situ	0.20	155	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	0-0.5'	10/18/2023	In-Situ		149							
114.7	1'		In-Situ		148							
HA-7	2' 3'	10/18/2023	In-Situ In-Situ		149 149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	240
	4'	1	In-Situ		153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	0-0.5'		In-Situ	0.7	2,085	<0.0500	<0.300	<10.0	70.0	10.4	80.4	1,120
	1'		In-Situ	0.5	1,216							
HA-8	2'	10/17/2023	In-Situ	0.7	765							
	3' 4'	-	In-Situ In-Situ	4.0 3.7	604 102	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	176
	0-0.5'		In-Situ		574							
	1'	1	In-Situ		436							
HA-9	2'	10/17/2023	In-Situ		3,679	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	1,300
	3'	1	In-Situ		153							
	4'		In-Situ	0.90	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	0-0.5' 1'	-	In-Situ		738							
	2'	1	In-Situ In-Situ		1,466 946							
	3'	†	In-Situ		2,288							
HA-10	4'	10/18/2023	In-Situ		9,579	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	14,200
	5'	1	In-Situ		3,646							
	6'	-	In-Situ		437	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	352
	7' 8'	1	In-Situ In-Situ		149 303	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	288
	0-0.5'		In-Situ		160							
	1'	]	In-Situ		151							
	2'		In-Situ		302							
	3'		In-Situ		1,307							
HA-11	4' 5'	10/18/2023	In-Situ		873	 <0.0E00	 <0.200	 <10.0	 <10.0	 <10.0	 <10.0	2 560
	6'	1	In-Situ In-Situ		2,309 298	<0.0500 <0.0500	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	2,560 160
	7'	†	In-Situ		158							
	8'		In-Situ		150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
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 (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,0	000	N/A	2,500	20,000

## TABLE 1 - SOIL ANALYTICAL SUMMARY - DELINEATION SOIL SAMPLES DCP Operating Company M-28 Line Leak

#### NMOCD Incident No. nAPP2319359955

	Sample		Soil	PID	Field Chloride	Benzene	Total BTEX <sup>1</sup>		TPH² (	mg/kg)		Chloride <sup>3</sup>
Sample ID	Depth	Sample Date	Status	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TOTAL	(mg/kg)
	0-0.5'		In-Situ		3,184	<0.0500	<0.300	<10.0	138	61.2	199	1,250
	1'	] [	In-Situ		315							
HA-12	2'	10/17/2023	In-Situ		634							
}	3' 4'	-	In-Situ In-Situ		148 142	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	112
	0-0.5'		In-Situ		729	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	704
	1'	1	In-Situ		677							
HA-13	2'	10/17/2023	In-Situ		592							
	3'	] [	In-Situ		152							
	4'		In-Situ	0.80	160	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	112
	0-0.5'	4 - 1	In-Situ		592	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	400
HA-14	1' 2'	10/18/2023	In-Situ In-Situ		586 460							
117-14	3'	10/10/2023	In-Situ		152							
	4'	1	In-Situ	8.80	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
	0-0.5'		In-Situ		150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	1'	] [	In-Situ		149							
HA-15	2'	10/18/2023	In-Situ		147							
	3' 4'	4	In-Situ		145 155	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
		<del>                                     </del>	In-Situ		305					<10.0	<10.0 <b>28.2</b>	16.0
	0-0.5' 1'	<del> </del>	In-Situ In-Situ		237	<0.0500	<0.300	<10.0	28.2	<10.0	28.2	192
HA-16	2'	10/17/2023	In-Situ		207							
	3'	1 " ' "	In-Situ		149							
	4'	1	In-Situ	1.90	150	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	0-0.5'		In-Situ		150							
	1'	l	In-Situ		153							
HA-17	2'	10/18/2023	In-Situ		150							
	3' 4'	4	In-Situ In-Situ		155 150	<0.0500 <0.0500	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	16.0 16.0
	0-0.5'		In-Situ		2,113	<0.0500	<0.300	<10.0	20.2	<10.0	20.2	3,080
	1'	$\dashv$	In-Situ		877							
	2'	1 1	In-Situ		461							
	3'	] [	In-Situ		1,252							
HA-18	4'	10/18/2023	In-Situ		1,404							
	5'	4 - 1	In-Situ		153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	192
	6' 7'	-	In-Situ In-Situ		293 151							
	8'	-	In-Situ		304	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	400
	0-0.5'		In-Situ		148							
	1'	1 1	In-Situ		153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
HA-19	2'	10/18/2023	In-Situ		149							
	3'	]	In-Situ		148							
	4'		In-Situ		152	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	2'	1	In-Situ	0.50	150		 *0.300					40.0
V-1	4' 6'	2/13/2024	In-Situ In-Situ	1.2 0.5	153 151	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	8'	† †	In-Situ	0.5	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	2'		In-Situ	1.6	153	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	144
,,_	4'	1 2/42/222	In-Situ	1.2	154							
V-2	6'	2/13/2024	In-Situ	0.3	152							
	8'	1	In-Situ	0.0	149	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
	2'		In-Situ	0.0	152							
V-3	4'	2/13/2024	In-Situ	1.1	212	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	112
v-3	6'	2/13/2024	In-Situ	0.4	211							
	8'		In-Situ	0.4	309	<0.0500	<0.300	<10.0	<10.0	<10.0	<10.0	160
		nation Standard an 4 ft. below grad		N/A	N/A	10	50		N/A		100	600
		nd Delineation S than 4 ft. below gra		N/A	N/A	10	50	1,0	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
- $4. \ New \ Mexico \ Administrative \ Code \ (NMAC) \ 19.15.29.13 (D) Restoration, Reclamation, and \ Re-vegetation \ (Reclamation for areas no longer in use) for soils extending to 4 ft. below grade surface (bgs).$
- $5. \ New\ Mexico\ Oil\ Conservation\ Division\ (NMOCD)\ Remediation\ and\ Delineation\ Standards\ (NMAC\ 19.15.29.12(N))$

Bold values denote concentrations above laboratory RDL

Red values denote concentrations above NMOCD Action Levels

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

Appendix A – Initial Form C-141

**OCD** Permitting

Districts:

Counties:

SIGN-IN HELP

Searches

**Operator Data** 

Artesia

Eddv

**Hearing Fee Application** 

## **OCD Permitting**

Operator:

Action Search Results

Action Status Item Details

## [NOTIFY] Notification Of Release (NOR) Application

#### Submission Information

Submission ID:

238952

[36785] DCP OPERATING COMPANY, LP

Description: DCP OPERATING COMPANY, LP [36785]

> , M-28 LINE , nAPP2319359955

Status: APPROVED

Status Date: 07/12/2023

nAPP2319359955 References (1):

#### **Forms**

This application type does not have attachments

#### Questions

#### Location of Release Source

Please answer all the questions in this group.

Site Name M-28 Line 07/11/2023 Date Release Discovered Surface Owner

#### Incident Details

Please answer all the questions in this group.

Incident Type Blow Out Did this release result in a fire or is the result of a fire No Did this release result in any injuries Not answered Has this release reached or does it have a reasonable probability of reaching a No watercourse Has this release endangered or does it have a reasonable probability of endangering Has this release substantially damaged or will it substantially damage property or the

Is this release of a volume that is or may with reasonable probability be detrimental

Nature and Volume of Release

to fresh water

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details

Produced Water Released (bbls) Details Cause: Blow Out | Pipeline (Any) | Produced Water | Released: 9 BBL | Recovered: 0 BBL | Lost: 9 BBL.

Is the concentration of chloride in the produced water >10,000 mg/l No Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered.

Hearing Fee Application Operator Data Searches Other, Specify, Unknown, and/or Fire, or any negative lost amounts) Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other Released Details SIGN-IN HELP Not answered. Natural Gas Flared (Mct) Details

#### Nature and Volume of Release (continued)

No, according to supplied volumes this does not appear to be a "gas only" report.

Опачанавіе.

Was this a major release as defined by Subsection A of 15.29.7 JAMV ls this a gas only submission (i.e. only significant Mcf values reported)

Reasons why this would be considered a submission for a notification of a major

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaning of natural gas (i.e. gas only) are to be submitted on the C-129 form.

#### Initial Response

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

ənıŢ All free liquids and recoverable materials have been removed and managed bads, or other containment devices anul Released materials have been contained via the use of berms or dikes, absorbent enı⊥ The impacted area has been secured to protect human health and the environment The source of the release has been stopped

Not answered.

emedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.18.28.11f.)(a) (MAC), (please prepare and attach all information peeded for closure evaluation in the follow-up C-141 submission. Per Paragraph 4 of Subsection B of 19.15.29.8 WMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 su It all the actions described above have not been undertaken, explain why

#### Acknowledgments

I acknowledge that I am authorized to submit notification of a release on behalf of my operator.

NMAC 19.15.29. acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to

corrective action", pursuant to MMAC 19.15.29. I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and

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.

confamination that pose a threat to groundwater, surface water, human health or the environment. acknowledge the fact that 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

I acknowledge the fact that, 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

#### Comments

No comments found for this submission.

C-141.

#### Conditions

knomen (7/12/2023), When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial

շռաացւλ։

Reasons

No reasons found for this submission.

District 1
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

Responsible Party DCP Operating Company, LP

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	nAPP2319359955
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

OGRID 36785

Contact Nam	ne Raymond	Smalts		Contact Telephone 575-234-6405					
Contact ema	il Raymond.	a.smalts@p66.cor	n	Incident # (assigned by OCD)					
Contact mail	ing address	5301 Sierra	Vista Drive		Carlsbad, 1	NM 88220			
L			Location	n of R	elease So	ource			
Latitude 32.6	97537	<u> </u>	(NAD 83 in c	decimal de;	Longitude - grees to 5 decin	103.99317			
Site Name: M	1-38 Line				Site Type:	Blow Out			
Date Release	Discovered:	7/12/2023		_	API# (if app	licable)			
Unit Letter	Section	Township	Range		Coun	ty			
0	32	18S	30E	Eddy	/				
Crude Oi		l(s) Released (Select a Volume Release				justification for the volumes provided below)  Volume Recovered (bbls)			
☑ Produced	Water	Volume Release	d (bbls): 9 bbls			Volume Recovered (bbls): 0 bbls			
		Is the concentra produced water	tion of dissolved	d chloride	e in the	☐ Yes ☒ No			
Condensa	ate	Volume Release				Volume Recovered (bbls)			
☐ Natural C	Gas	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units					)	Volume/Weight Recovered (provide units)			
	023, DCP Op	s discovered a lea the pipeline and s	•	*		l corrosion of the pipeline caused the pipeline to blow			

Form C-141 Page 2

## State of New Mexico Oil Conservation Division

Incident ID	nAPP2319359955
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
	is been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence r	emediation 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 blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti	fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a three	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name. Raymond	Shadha	Title: Sr. Enyironmental Engineer
Printed Name. Raymond	Sitter of the second of the se	2/19/2002
Signature:	all Sauge	Date:
email: Raymond.a.smalts	@p66.com	Telephone: 575-234-6405
OCD Only		
Received by: Shelly W	Vells	Date: _7/19/2023

Received by OCD: 10/8/2024 1:40:40 PM

#### **Barrels Released Calculation**

Release Area					
Square Footage	4693 x	Height (ft)	0.25 =	43.4537	feet <sup>3</sup>
27					
43.453704 x 0.178	81 =	7.7391046	barrels released		
Total Volume Released (b	obls): 8.6				
Total Volume Released (b	abls): 8.6				

#### Overspray Area

Square Fo	ootage		12766	×	Height (†t)	0.01	=	4.728148
		27						
4.728148	x	0.1781		=	0.842083	barrels relea	ased	

From: Kyle Norman

To: eco@slo.state.nm.us

Cc: Smalts, Raymond A; Case, Nicholas L; Daly, Stacey; Weathers, Stephen; Griffin, Becky R.; Brett Dennis; Laura

**Flores** 

**Subject:** 6062\_M-28 Line Leak (7.11.2023)\_nAPP2319359955

**Date:** Tuesday, October 31, 2023 7:44:00 AM

Attachments: <u>image001.pnq</u>

Initial C-141 nAPP2319359955 M-28 Line Leak (Signed).pdf

## Good morning,

Please find attached the Initial C-141 for the M-28 Line Leak nAPP2319359955, an ARCH survey has been conducted on site and it was negative.

Please let me know if you have any questions.

Thank you

## **Kyle Norman**

Regional Project Manager

#### Tasman, Inc.

2620 W. Marland Blvd. Hobbs, NM 88240 C: 575-318-5017

knorman@tasman-geo.com www.tasman-geo.com



Appendix B – Depth to Groundwater Information



USGS Home Contact USGS Search USGS

#### **National Water Information System: Web Interface**

**USGS Water Resources** 

ata Entogory:		Geographic Avea:		
Groundwater	~	United States	~	GC

#### Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

#### Search Results -- 1 sites found

**Agency code** = usgs **site\_no list** = • 324154103593301

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324154103593301 18S.30E.32.32422

Eddy County, New Mexico
Latitude 32°41'54", Longitude 103°59'33" NAD27
Land-surface elevation 3,374 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

#### **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-03-08			62610		3208.02	NGVD29	1	Z	2		Α
1968-03-08		[	62611		3209.55	NAVD88	1	Z	:		Α
1968-03-08			72019	164.45			1	Z	:		Α
1971-04-08		[	62610		3211.19	NGVD29	1	Z	:		Α
1971-04-08			62611		3212.72	NAVD88	1	Z	:		Α
1971-04-08		[	72019	161.28			1	Z	_		Α

Exp	lan.	ation
LAH	IQIII	auvii

Section	Code	Description
Nater-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Nater-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

Appendix C – Photographic Log

## **DCP Operating Company, LP**

## M-28 Line Leak - nAPP2319359955





## **DCP Operating Company, LP**

#### M-28 Line Leak - nAPP2319359955





**Appendix D – Certified Laboratory Analytical Reports** 



October 24, 2023

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

RE: 6062\_M-28 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/18/23 15:57.

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

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

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

Celeg D. Keens

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 1 @ 3' (H235709-04)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	< 0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	< 0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
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	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories \*=Accredited Analyte

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Celeg to Frence

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 1 @ 4' (H235709-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
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	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Titreene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 2 @ 1' (H235709-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 2 @ 4' (H235709-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	< 0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	< 0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	18						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 3 @ 0-0.5' (H235709-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
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	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 3 @ 4' (H235709-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
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	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	'8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 4 @ 2' (H235709-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 4 @ 4' (H235709-20)

RTFY 8021R

BIEX 8021B	mg	<sup>и</sup> кд	Analyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 5 @ 4' (H235709-25)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	< 0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 5 @ 6' (H235709-27)

	1119/	'kg	Anaiyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 10/19/2023	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
,		16.0	10/19/2023			,	·		Qualifier
Chloride	192	16.0	10/19/2023	ND		,	·		Qualifier Qualifier
Chloride TPH 8015M	192 mg/	16.0 ' <b>kg</b>	10/19/2023 Analyze	ND d By: MS	416	104	400	0.00	
Chloride TPH 8015M Analyte	192 mg/	16.0 ( <b>kg</b> Reporting Limit	10/19/2023 Analyze Analyzed	ND d By: MS  Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	
Chloride TPH 8015M  Analyte GRO C6-C10*	mg/ Result <10.0	16.0  Reporting Limit  10.0	10/19/2023  Analyzed  10/19/2023	ND d By: MS  Method Blank  ND	416 BS 182	104 % Recovery 90.9	400  True Value QC 200	0.00 RPD 3.80	-

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Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

108 %

49.1-148



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 5 @ 8' (H235709-29)

BTEX 8021B	mg,	'kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	< 0.050	0.050	10/19/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	< 0.050	0.050	10/19/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/19/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	114	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	27.2	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 6 @ 1' (H235709-31)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	182	90.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	191	95.4	200	5.38	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	101 %	% 48.2-13	4						

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

115 %

49.1-148



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: HA - 6 @ 4' (H235709-34)

BTEX 8021B	mg	mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.4 % 71.5-134

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.3	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 7 @ 2' (H235709-37)

RTFY 8021R

BIEX 8021B	mg	<sup>и</sup> кд	Analyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	1.96	97.9	2.00	6.06	
Toluene*	<0.050	0.050	10/20/2023	ND	1.86	93.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: HA - 7 @ 4' (H235709-39)

Reporting Limit 0 0.050 0 0.050	Analyzed 10/20/2023 10/20/2023	Method Blank ND ND	BS 1.96	% Recovery 97.9	True Value QC 2.00	RPD 6.06	Qualifier
					2.00	6.06	
0.050	10/20/2023	ND	1.00				
	,,	ND	1.86	93.2	2.00	5.59	
0.050	10/20/2023	ND	1.87	93.7	2.00	7.54	
0.150	10/20/2023	ND	5.56	92.7	6.00	8.78	
0.300	10/20/2023	ND					
50	50 0.150	50 0.150 10/20/2023	50 0.150 10/20/2023 ND	50 0.150 10/20/2023 ND 5.56	50 0.150 10/20/2023 ND 5.56 92.7	50 0.150 10/20/2023 ND 5.56 92.7 6.00	50 0.150 10/20/2023 ND 5.56 92.7 6.00 8.78

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

· ·									
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 8 @ 0-0.5' (H235709-40)

RTFY 8021R

BIEX 8021B	mg,	/ kg	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	< 0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	70.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	10.4	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

Analyzed By: MC

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 8 @ 4' (H235709-44)

RTFY 8021R

BIEX 8021B	mg	<sup>и</sup> кд	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.0	% 49.1-14	8						

Analyzed By: MC

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 9 @ 2' (H235709-47)

RTFY 8021R

BIEX 8021B	mg/	<sup>и</sup> кд	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2	% 49.1-14	8						

Analyzed By: MC

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 9 @ 4' (H235709-49)

RTFY 8021R

B1EX 8021B	mg/	<sup>и</sup> кд	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.9	% 49.1-14	8						

Analyzed By: MC

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 10 @ 4' (H235709-54)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.6	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 10 @ 6' (H235709-56)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.5	% 49.1-14	18						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 10 @ 8' (H235709-58)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	73.4	% 48.2-13	4						

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Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

66.1 %

49.1-148



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 11 @ 5' (H235709-64)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.6	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 11 @ 6' (H235709-65)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.2	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: HA - 11 @ 8' (H235709-67)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.5	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: HA - 12 @ 0-0.5' (H235709-68)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	138	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	61.2	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						

Surrogate: 1-Chlorooctane 77.5 % 48.2-134
Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 12 @ 4' (H235709-72)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	< 0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/19/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.6	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: HA - 13 @ 0-0.5' (H235709-73)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene	e (PID 123 :	% 71.5-13	1						

Surrogate: 4-Bromofluorobenzene (PID	123 %	/1.5-134	

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 13 @ 4' (H235709-77)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.9	% 49.1-14	18						

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Celey D. Keene



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

mg/kg

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: HA - 14 @ 0-0.5' (H235709-78)

BTEX 8021B

DILX 0021D	g	, kg	Alluly20	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

Analyzed By: MS

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Celey Theene



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 14 @ 4' (H235709-82)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	< 0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	< 0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

mg/kg

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 15 @ 0-0.5' (H235709-83)

BTEX 8021B

DILX 0021D	g	Ng .	Alluly20	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	183	91.7	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

Analyzed By: MS

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 15 @ 4' (H235709-87)

RTFY 8021R

BIEX 8021B	mg/	кg	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.07	103	2.00	5.17	
Toluene*	<0.050	0.050	10/20/2023	ND	2.10	105	2.00	6.12	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	4.99	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.30	105	6.00	5.05	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

Applyzod By: MC

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

mg/kg

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 16 @ 0-0.5' (H235709-88)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	28.2	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

Analyzed By: MS

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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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## ARDINAL LABORATORIES

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

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasm	nan Geosciences									E	ILL TO					A	NALYSIS REC	UEST	
Project Manager: Kyle	Norman							P.O.	#:										
Address: 2620 W. M	Marland Blvd.							Com	pany	y: Ta	sman Geo		1						
City: Hobbs	State: NM	Zip: 882	240					Attn	: Kyl	e No	man		1						
Phone #: 575-318-501	17 Fax #:							Addı	ress:	2620	W. Marland								
Project #: 6062	Project Owner	: DCP Op	erati	ng Co	mpany			City:	Hob	bs			Ä			6			
Project Name: 6062_M-	28 Line Leak							State	: NM	! Zip	: 88240				es	Rush			
Project Location:								Pho	ne #:	575	-318-5017		8015	BTEX	Chlorides	2	PloH		
Sampler Name: Kendor	n Stark							Fax #	¥;					E I	은	24-hr	<u></u>		
FOR LAB USE ONLY					MA	TRIX		E	PRES	ERV.	SAM	PLING	1 또		0	4			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER		OTHER	DATE	TIME	TP						
1	HA-1 @ 0-0.5'	G	1		X				1	X	10/17/23	0900					X		
2	HA-1 @ 1'	G	1		X	1				X	10/17/23	0901					X		
3	HA-1 @ 2'	G	1		X				1	X	10/17/23	0902					X		
4	HA-1 @ 3'	G	1		X	_			1	X	10/17/23	0903	X	X	X				1
5	HA-1 @ 4'	G	1		X					X	10/17/23	0904	X	X	X				
6	HA-2 @ 0-0.5'	G	1		X				1	X	10/17/23	0905					X		
7	HA-2 @ 1'	G	1		X				1	X	10/17/23	0906	X	X	X				
8	HA-2 @ 2'	G	1		X				1	X	10/17/23	0907					X		
3	HA-2 @ 3'	G	1		X				1	X	10/17/23	0908					X		
10	HA-2 @ 4'	G	1		X				1	X	10/17/23	0909	X	X	X				

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Relinquished By:	Time: 1557	eived By:	F 1	ults: kn	Add1 Phone #:   Add1 Fax #:   Add1 Fax #:   Add1 Fax #:   Add1 Phone #:   Add1 Pax #:   Add1 P
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 13	#140	Sample Condition Cool Intact  Yes _ Yes _ No _ No	CHECKED BY: (Initials)		

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# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasm	nan Geosciences										BIL	LTO		ANALYSIS REQUEST							
Project Manager: Kyle	Norman							P.O.	#:												T
Address: 2620 W. M	Marland Blvd.							Соп	npan	y: T	asma	an Geo		1							
City: Hobbs	State: NM	Zip: 88	240					Attn: Kyle Norman						1							
Phone #: 575-318-5017 Fax #:							Address: 2620 W. Marland					1							Ĭ		
Project #: 6062 Project Owner: DCP Midstream							City	: Hol	obs				Ä			ے					
Project Name: 6062_M-28 Line Leak							Stat	e: Nl	4 Z	ip: 88	8240		5.	-	es	Rush					
Project Location:							Pho	ne#	57	5-31	18-5017		801	BTEX	ri G	2	Hod				
Sampler Name: Kendon Stark						Fax #:						œ	BT	Chlorides	24-hr	Ĭ					
FOR LAB USE ONLY		0				TRIX			PRESERV		7	SAMPLING		표		Ö	24				
Lab I.D. H235709	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WAS	OIL	SLUDGE	OTHER	ACID/BASE	_	OTHER	DATE	TIME								
//	HA-3 @ 0-0.5'	G	1		)	_				X	1	10/18/23	0900	X	X	X					1
12	HA-3 @ 1'	G	_		)	_				X	1	10/18/23	0902					X			1
13	HA-3 @ 2'	G	-		)	_				X	1	10/18/23	0904					X			1
14	HA-3 @ 3'	G	-		)	_				X		10/18/23	0906					X			1
15	HA-3 @ 4'	G	1		)					X	1	10/18/23	0908	X	X	X					1
14	HA-4 @ 0-0.5'	G	_		)					X	1	10/17/23	0910					X			1
17	HA-4 @ 1'	G	1		)					X	1	10/17/23	0911					X			
18	HA-4 @ 2'	G	1		)					X	1	10/17/23	0912	X	X	X					
19	HA-4 @ 3'	G	1		)					X	1	10/17/23	0913					X			
20	HA-4 @ 4'	G	1		)					X	1	10/17/23	0914	X	X	X					

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Relinquished By:	Time: 1557	Received By:  Received By:	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 3 - 0	#14	Sample Condition Cool CHECKED BY:   Interest	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasn	nan Geosciences										BI	LL TO					A	NALYSIS REQ	UEST	
Project Manager: Kyle	Norman							P.0	能											
Address: 2620 W. N	Marland Blvd.							Con	npan	y: T	asn	nan Geo		1						
City: Hobbs	State: NM	Zip: 88	240					Attn: Kyle Norman						1						
Phone #: 575-318-50	17 Fax#:							Address: 2620 W. Marland						1						
Project #: 6062	Project Owner	: DCP Mi	dstre	am				City	: Hol	bbs				Ä			_			1 1
Project Name: 6062_M-28 Line Leak							Stat	e: N)	M Z	ip: 8	88240		5.6	-	es	Rush				
Project Location:						Pho	ne #:	: 57	5-3	18-5017		801	BTEX	Chlorides	2	Hold				
Sampler Name: Kendon Stark					Fax #:							BT	은	4-hr	Ĭ					
FOR LAB USE ONLY					MA			PRESER		SAI SAI		SAMPLING			Ö	24				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER.	ACID/BASE	_	OTHER	DATE	TIME	F	TPH					
21	HA-5 @ 0-0.5'	G	1		X					X		10/17/23	0915					X		
22	HA-5 @ 1'	G			X	_				X		10/17/23	0916					X		
33	HA-5 @ 2'	G	1		)	_				X		10/17/23	0917					X		
24	HA-5 @ 3'	G	-		×	-				X		10/17/23	0918					X		
25	HA-5 @ 4'	G	<u> </u>		X	-				X		10/17/23	0919	X	X	X				
25	HA-5 @ 5'	G	-		_ X					X		10/17/23	0920					X		
27	HA-5 @ 6'	G	1		X					X		10/17/23	0921	X	X	X				
28	HA-5 @ 7'	G	1		X					X		10/17/23	0922					X		
29	HA-5 @ 8'	G	1		)					X		10/17/23	0923	Х	X	X				
30	HA-6 @ 0-0.5'	G	1		X					X		10/17/23	0926					X		

FUESS: NOTE: Usable, soci. Duringes. Cerdinal's sobility and clear's exclusive remaily for any clear's exclusive remaily for any clear assembly and control assembly and clear assembly assembl

Relinquished By:	Date: Date: Receive	deigne			Add1 Phone #:   Add1 Fax #:   Add1 Fax #:   Dtasman-geo.com; bdennis@tasman- an-geo.com; kstark@tasman-geo.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140	Sample Condition Cool intact Yes Yes No No	CHECKED BY: (înitîaîs)		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 40 of 45



# **ARDINAL LABORATORIES**

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

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasn	man Geosciences										BI	LL TO		ANALYSIS REQUEST								
Project Manager: Kyle	Norman							P.O	#:													T
Address: 2620 W. N	Marland Blvd.							Con	npan	y: T	asm	nan Geo		1								
City: Hobbs	State: NM	Zip: 88	240					Attr	: Ky	le N	orm	ian		1								
Phone #: 575-318-50	17 Fax #:							Add	ress	: 262	0 W	. Marland		1								
Project #: 6062								City: Hobbs					X			_			1 1			
oject Name: 6062_M-28 Line Leak							Stat	e: NI	M Z	<b>áp:</b> 8	38240		2		es	S						
Project Location:								Pho	ne #	: 57	5-3	18-5017		801		ē	2	POP				
Sampler Name: Kendon Stark						Fax #:							BTEX	Chlorides	24-hr Rush	Ĭ						
FOR LAB USE ONLY		0			MA	TRIX		PRESERV				SAMPLING		TH		Ö	4					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER			OTHER	DATE	TIME		T.							
31	HA-6 @ 1'	G	1		X					X		10/17/23	0928	X	X	X						1
32	HA-6 @ 2'	G	1		X					X		10/17/23	0930					X				
33 34	HA-6 @ 3'	G	1		Х				_	X		10/17/23	0932					X				
34	HA-6 @ 4'	G	1		X					X		10/17/23	0934	X	X	X						
35	HA-7 @ 0-0.5'	G	1		X					X		10/18/23	0910					X				
36	HA-7 @ 1'	G	1		X	_				X	T	10/18/23	0912					X				
37	HA-7 @ 2'	G	1		X					X		10/18/23	0914	X	X	X						
38	HA-7 @ 3'	G	1		X					X		10/18/23	0916					Х				
39	HA-7 @ 4'	G	1		X					X		10/18/23	0918	Х	X	Х						T
40	HA-8 @ 0-0.5'	G	1		X					X		10/17/23	0936	X	X	X						

PLEASE NOTE: Liability and Damages. Cardenia's exclusive and clien's exclusive remady for any clien arrange whether besset in contract or tor, shell be brinded to the amount paid by the client for the analyses. At clients including those for negligence and any other cause whethere were the deemed waved unless made in writing and received by Cardenia within 30 days after completion of the applicable service. In no event shell Cardenia the labels for recolerate or consequents (instrumed, including those is subsidiaries and for reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of an event and or reliable to the performance of a performance of a performance or reliable to the performanc

Relinquished By:	10/19/23 Time: 1557	ceived By:	Phone Result:  Yes  No  Add'l Phone #: Fax Result:  Yes  No  Add'l Fax #: REMARKS: email results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 3	·Di #140	Sample Condition Cool Intact (Initials)	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



## ARDINAL LABORATORIES

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

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Ta	isman Geosciences										BI	LL TO					A	NAL	YSIS	REC	UES	ST.		
Project Manager: Ky	yle Norman							P.0	). #:															_
Address: 2620 W	. Marland Blvd.							Co	mpa	ny:	Tasr	man Geo		1				,						
City: Hobbs	State: NM	Zip: 88	240					Atı	n: K	yle N	lorn	nan		1										
Phone #: 575-318-	501 <sup>-</sup> Fax #:							Ad	dres	s: 26	20 V	V. Marland		1										
Project #: 6062	Project Owner:	DCP Mi	dstre	am				Cit	y: Ho	bbs				X			ے							
Project Name: 6062	M 281 ine Leak							Sta	te: N	M	Zip:	88240		2	~	es es	Rush	_						
Project Location:								Ph	one	#: 57	75-3	318-5017		801	X	1.5	2	Hold						
Sampler Name. Ken	don Stark							Fax	(#:						BT	Chlorides	24-hr	Ĭ					ļ	
72 A4 C1, Y		0		F		MATRI	X		PR	SER	V.	SAM	PLING	TE.	_	Ö	24						ĺ	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SI LIDGE	OTHER	ACID/BASE	ICE / COCL	ОТНЕВ	DATE	TIME	-										
41	HA-8 @ 1'	G	1	L		Х	$\perp$			X		10/17/23	0938	$oxed{oxed}$	<u> </u>			Х					 	
42	HA-8 @ 2'	G	<u> </u>		Ш	X				Х		10/17/23	0940					X						_
43	HA-8 @ 3'	G	1			X	$\perp$			X		10/17/23	0942	<u>L</u>	<u>L</u> _			Х		L				_
44	HA-8 @ 4'	G	1			X			L	X		10/17/23	0944	X	Х	Х	<u> </u>					<u> </u>		
45	HA-9 @ 0-0.5'	G	1			X				Х		10/17/23	0946			<u> </u>		Х			L		]	_
46	HA-9 @ 1'	G	1			X				Х		10/17/23	0948					Х						_
47	HA-9 @ 2'	G	1	Γ		X				X		10/17/23	0950	Х	X	Х								
48	HA-9 @ 3'	G	1			Х				Х		10/17/23	0952					Х						
49	HA-9 @ 4'	G	1 .	Γ		Х				Х		10/17/23	0954	Х	Х	Х								
50	HA-10 @ 0-0.5	G	1	Γ		X	$\top$	$\top$	Γ	Х		10/18/23	0920					Х						

PLEASE NOTE: Inplinging flamages. Takin's is upon a recover remove and certs exclusive remove for any run has any inventors used in format for roll you can research to the analysis. A claims including most for regigence and any other cause white several to deemed waved unless made in whiting and received by Cardina within 30 as a few current of the auditors caused used to receive the auditors within 30 and received and analysis. The current of the substances are used to receive the auditors within 30 and received and analysis. The current of the substances are used to receive the auditors are used to receive the auditors. The current of the auditors are used to receive the auditors are used to receive the auditors.

Relinquished By: Relinquished By:	Date: Received Time: Received Time: Received	odriguell	Phone Result:   Yes   No   Add'l Phone #:   Fax Result:   Yes   No   Add'l Fax #:   REMARKS:   Phone Results: knorman@tasman-geo.com; bdennis@tasman-geo.com; lflores@tasman-geo.com; kstark@tasman-geo.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	.0: #140	Sample Condition Cool Intact (Initials)  No No No	



## **ARDINAL LABORATORIES**

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

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasm	aan Geosciences										BI	LL TO					A	NALYSIS REQU	EST	
Project Manager: Kyle	Norman							P.O	. #:											
Address: 2620 W. M	larland Blvd.							Cor	npar	ny:	Tası	man Geo		1					1 1	
City: Hobbs	State: NM	Zip: 882	240					Attı	ı: Ky	le N	lorn	nan		1						
Phone #: 575-318-501	17 Fax #:							Add	lress	: 26	20 V	V. Marland		1						
Project #: 6062	Project Owne	r: DCP Mic	istre	arn				City	: Ho	bbs				Ä			_		1 1	
Project Name: 6062_M-2	28 Line Leak							Stat	e: N	M 2	Zip:	88240		5 E		Chlorides	24-hr Rush			
Project Location:								Pho	ne #	: 57	75-3	318-5017		1=	BTEX	10	<u>~</u>	Hold		
Sampler Name: Kendor	n Stark							Fax	#:					801	3	ᅙ	눌	오		
FOR LAB USE ONLY					M	TRIX			PRE	SER	V.	SAME	PLING	표	ш.	5	4			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	Ė						
51	HA-10 @ 1'	G	1		)					X		10/18/23	0922					X		
52	HA-10 @ 2'	G	1		)					X		10/18/23	0924					X		
53	HA-10 @ 3'	G	1		)					X		10/18/23	0926					X		
54	HA-10 @ 4'	G	1		)					X		10/18/23	0930	X	X	X				
55	HA-10 @ 5'	G	1		)					Х		10/18/23	0932					X		
SS -	HA-10 @ 6'	G	1		)					X		10/18/23	0934	X	X	X				
57	HA-10 @ 7'	G	1		)					X		10/18/23	0936					X		
58	HA-10 @ 8'	G	1		)					X		10/18/23	0938	X	Х	X				
59	HA-11 @ 0-0.5'	G	1		)					X		10/18/23	0940					X		
60	HA-11 @ 1'	G	1		7					X		10/18/23	0942					X		

days after consistent of the approximate service in no event snall card in the label for incidental or consequental damages including without finished business interruptions, loss of use or loss of profits incurred by client, its subsidients afficiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such cliam is based upon any of the above stated reasons or otherwise

Relinguished By:	Date: Receiv	ecl By:	Phone Result:  Yes  No Add'l Phone #:
Relinquished By:	Time: Receiv	lod alguly ged By:	Fax Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-13.02 #140	Sample Condition Cool Intact (Initials)  Yes Yes  No No	Y:



## ARDINAL LABORATORIES

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

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Fa	asman Geosciences							П			BI	LL TO					A	NAL	YSIS	REC	QUES	T			
Project Manager: Ky	yle Norman							P.C	). #:											T					
Address: 2620 W.	. Marland Blvd.							Со	mpa	ny:	Tasr	nan Geo												İ	ĺ
City: Hobbs	State: NM	Zip: 88	240					Att	n: K	yle N	iorn	nan		]											
Phone #: 575-318-5	5017 Fax #:							Ad	dres	s: 26	20 V	V. Marland		1											1
Project #: 6062	Project Owner:	DCP Mi	dstre	am				Cit	y: Ho	bbs				1 X			اح								
Project Name: 6062	M 28 Line Leak							Sta	te: N	M	Zip:	88240		5	~	es	ns		1	i					
Project Location:								Ph	one #	ŧ: 5′	75-3	318-5017		801	<u> </u>	Į.	2	Hold							
Sampler Name: Ken	idon Stark							Fax	(#:						BTEX	Chlorides	24-hr Rush	Ĭ							
TR AB TETT, V			П	<u> </u>	, A	AATRI	X	_	PRE	SER	V.	SAM	PLING	T <sub>P</sub>		$\overline{\circ}$	4								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WAS	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	_					i						
61	HA-11 @ 2'	G	1	L_		X		$\perp$		Х		10/18/23	0944	<u> </u>		L		X			<u> </u>				
102	HA-11 @ 3'	G	1	L	$\rightarrow$	X	$\perp$			Х		10/18/23	0946	<u>L</u> _				Х		1					
63	HA-11 @ 4'	G	1			X	L			Х		10/18/23	0948					Х		<u> </u>					
64	HA-11 @ 5'	G	1	L_	$\perp$	X				Х		10/18/23	0950	X	Х	Х									
65	HA-11 @ 6'	G			$\rightarrow$	X				Х		10/18/23	0952	X	Х	Х						<u></u>			L_
64	HA-11 @ 7'	G	1 ·		$\rightarrow$	Х				Х		10/18/23	0954			L		Х	L_	$\perp$					
67	HA-11 @ 8'	G	-		$\vdash$	X	$\perp$			Х		10/18/23	0956	Х	Х	Х				_					
68	HA-12 @ 0-0.5'	G	+-		$\vdash$	Х				Х		10/17/23	0956	X	X	Х									_
69	HA-12 @ 1'	G	1			X	$\perp$			X		10/17/23	0958	<u> </u>				X							
70	HA-12 @ 2'	G	1			X				X		10/17/23	1000					X							

PLEASE NOTE: Tab ty and Damages uservals a size frame cerns sets user terreey for annual range where passed incoming and received by Cardinal wiffin 30 days after uniform about the carrier in appositions or annual range and any other cause whatsoever shall be deemed waived unless made in mining and received by Cardinal wiffin 30 days after uniform appositions are appositions as an user on a leader for necessary or received and any other cause whatsoever shall be deemed waived unless made in mining and received by Cardinal wiffin 30 days unless that any other cause what shall be unless that the performance of the cardinal shall be applied to the performance of services reference to service and shall be applied to the performance of services reference to the performance of the performanc

Relinquished BO Relinquished By:	Date: 10/is/23 Receive Time: Receive Time: Receive	Podeigneis	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other	-13.0= #140	Sample Condition Cool Intact (initials)  Yes Yes  No No	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



## **ARDINAL LABORATORIES**

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

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasm	an Geosciences										BI	LL TO					A	NALYSIS F	REQUEST		
Project Manager: Kyle	Norman							P.0	#:											1	
Address: 2620 W. M	Iarland Blvd.							Соп	npan	y: T	Tasr	man Geo		1							
City: Hobbs	State: NM	Zip: 882	240					Attr	: Ky	le N	orm	nan		1							
Phone #: 575-318-501	17 Fax#:							Add	ress	: 262	20 W	V. Marland		1							
Project #: 6062	Project Owner	: DCP Mic	Istre	am				City	: Ho	bbs				X			-				
Project Name: 6062 M-2	28 Line Leak							Stat	e: Ni	M 2	Zip: 8	88240		5.6	-	Chlorides	24-hr Rush				
Project Location:								Pho	ne#	: 57	75-3	18-5017		801	BTEX	ri Di	~	밀			
Sampler Name: Kendor	Stark							Fax	#:						9T	은	후	Ĭ			
FOR LAB USE ONLY		1			MA	TRIX			PRE	SERV	1.	SAM	PLING	표	-	ਹ	4				
Lab I.D. <i>H235709</i>	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER	ACID/BASE	_	OTHER.	DATE	TIME	Ţ							
71	HA-12 @ 3'	G	1		X					X		10/17/23	1002					X			
72	HA-12 @ 4'	G	1		X					X		10/17/23	1004	X	X	X					
73	HA-13 @ 0-0.5'	G	1		X					X		10/17/23	1006	X	X	X					
74	HA-13 @ 1'	G	1		X					X		10/17/23	1008					X			
75	HA-13 @ 2'	G	1		X					X		10/17/23	1010					X			
76	HA-13 @ 3'	G	1		X					X		10/17/23	1012					Х			
77	HA-13 @ 4'	G	1		X					X		10/17/23	1014	X	X	X					
78	HA-14 @ 0-0.5'	G	1		X					X		10/17/23	1016	X	X	X					
79	HA-14 @ 1'	G	1		X					X		10/17/23	1018					X			
80	HA-14 @ 2'	G	1		X					X		10/17/23	1020					X			

agys after completion of the applicable service. In no event shall Cardinal be sable for incidental or consequential damages, including without instation, business interruptions, loss of use or loss of profits incurried by chart, as subsidial afficiates or successors arising out of or reasted to the parformance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	10/18/23 Time: 1557	Pod Pion			om	nan@	Add1 Phone #:   Add1 Fax #:   Dtasman-geo.com; bdennis@tasman-   n-geo.com; kstark@tasman-geo.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	i #140	Sample Condition Cool Intact  Yes Yes  No No	(Initials)				



## **ARDINAL LABORATORIES**

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

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasm	an Geosciences										BI	LL TO					A	NALYSIS	REQUES	ST	
Project Manager: Kyle	Norman							P.O.	#:												
Address: 2620 W. M	arland Blvd.							Соп	pan	y: T	asn	nan Geo		1		111					
City: Hobbs	State: NM	Zip: 88	240					Attn	: Ку	le N	orm	ian		1							1 1
Phone #: 575-318-501	7 Fax #:							Add	ress	: 262	20 W	/. Marland		1							1 1
Project #: 6062	Project Owner	: DCP Mi	dstre	am				City	: Hol	bbs				X			-				1
Project Name: 6062_M-2	28 Line Leak							Stat	e: NN	M Z	Zip: 8	38240		5 E		es	Rush				1 1
Project Location:								Pho	ne #:	: 57	5-3	18-5017		1 🛱	M M	2	NZ.	POH			
Sampler Name: Kendor	Stark							Fax	#:					801	BTEX	Chlorides	누	보			
FOR LAB USE ONLY					MA	RIX			PRES	SERV	1.	SAME	PLING	표	-	ਠ	24-hr				1 1
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	T							
81	HA-14 @ 3'	G	1		X					X		10/17/23	1022					X			
82	HA-14 @ 4'	G	1		X	_				X		10/17/23	1024	X	X	X					
83	HA-15 @ 0-0.5'	G	1		X					X		10/18/23	0958	X	X	X					
84	HA-15 @ 1'	G	1		X					X		10/18/23	1000					X			
85	HA-15 @ 2'	G	1		X					X		10/18/23	1002					X			
86	HA-15 @ 3'	G	1		X					X		10/18/23	1004					X			
87	HA-15 @ 4'	G	1		X					X		10/18/23	1006	X	X	X					
88	HA-16 @ 0-0.5'	G	1		X					X	T	10/17/23	1026	X	X	X					
89	HA-16 @ 1'	G	1		X					X		10/17/23	1028					X			
90	HA-16 @ 2'	G	1		X					X		10/17/23	1030					X			

PLEASE NOTE: Lability and Damages. Cardwife habitity and claiming successor shall be contained to make a making and received by Cardwife habitity and claiming bearing to the amount pland by the claim for the amount pland by the amount pland by the claim for the amount pland by the claim for the amount pland by the claim for the amount pland by 
Relinquished By:	10(4)23 Time: \557	red By:	email results		@tasman-geo.com; bdennis@tasman- an-geo.com; kstark@tasman-geo.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-13.02 #14(	Sample Condition Cool Intact (Initials)  Yes Yes No No			

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



October 24, 2023

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

RE: 6062\_M-28 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/18/23 15:57.

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

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

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

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 16 @ 4' (H235710-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.20	110	2.00	3.53	
Toluene*	<0.050	0.050	10/20/2023	ND	2.27	113	2.00	1.61	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.22	111	2.00	2.18	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.61	110	6.00	3.25	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	74.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keene



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 17 @ 3' (H235710-06)

RTFY 8021R

BIEX 8021B	mg,	/ kg	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.4	% 49.1-14	8						

Analyzed By: MC

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 17 @ 4' (H235710-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	74.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

mg/kg

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 18 @ 0-0.5' (H235710-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result 3080	Reporting Limit 16.0	Analyzed 10/19/2023	Method Blank ND	BS 448	% Recovery 112	True Value QC 400	RPD 3.64	Qualifier
•		16.0	10/19/2023			,	·		Qualifier
Chloride	3080	16.0	10/19/2023	ND		,	·		Qualifier Qualifier
Chloride TPH 8015M	3080 mg/	16.0 / <b>kg</b>	10/19/2023 Analyze	ND d By: MS	448	112	400	3.64	
Chloride TPH 8015M Analyte	3080 mg/	16.0 /kg Reporting Limit	10/19/2023 Analyze Analyzed	ND d By: MS  Method Blank	448 BS	% Recovery	400 True Value QC	3.64 RPD	
Chloride TPH 8015M  Analyte GRO C6-C10*	3080 mg/ Result <10.0	16.0 /kg Reporting Limit 10.0	10/19/2023  Analyze  Analyzed  10/19/2023	ND d By: MS  Method Blank  ND	8S 194	% Recovery 97.0	400  True Value QC 200	3.64 RPD 2.62	
Chloride TPH 8015M  Analyte GRO C6-C10*  DRO >C10-C28*	Result <10.0 <b>20.2</b>	16.0 //kg  Reporting Limit 10.0 10.0 10.0	10/19/2023  Analyze  Analyzed  10/19/2023  10/19/2023  10/19/2023	ND d By: MS  Method Blank  ND  ND	8S 194	% Recovery 97.0	400  True Value QC 200	3.64 RPD 2.62	

Analyzed By: MS

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 18 @ 5' (H235710-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	<0.050	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	88.7 9	% 48.2-13	4						

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Celeg D. Keene

Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

86.1 %

49.1-148



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 18 @ 8' (H235710-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	'8						

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#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 19 @ 1' (H235710-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PII	97.1	% 71.5-13	4						

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 10/18/2023 Reported: 10/24/2023

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN Sampling Date: 10/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 19 @ 4' (H235710-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Analyte Result Reporting Limit  <0.050 0.050 <0.050 0.050 e* <0.050 0.050 s* <0.150 0.150 <0.300 0.300  -Bromofluorobenzene (PID 97.4 % 71.5-134  Manalyte Result Reporting Limit  16.0 16.0  mg/kg  Analyte Result Reporting Limit  16.0 10.0  c28* <10.0 10.0  c28-C36 <10.0 10.0	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/20/2023	ND	2.04	102	2.00	4.67	
Toluene*	<0.050	0.050	10/20/2023	ND	2.09	104	2.00	5.21	
Ethylbenzene*	<0.050	0.050	10/20/2023	ND	2.11	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	10/20/2023	ND	6.28	105	6.00	3.03	
Total BTEX	<0.300	0.300	10/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/19/2023	ND	194	97.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/19/2023	ND	184	92.1	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	10/19/2023	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg Li Keine



## ARDINAL LABORATORIES

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

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Ta	sman Geosciences										B	ILL TO					Α	NAL'	YSIS	REC	QUES	ST			
Project Manager: Ky	le Norman							P	.O. #	:				1											
Address: 2620 W.	Marland Blvd.							C	omp	any:	Tas	man Geo		1										1	
City: Hobbs	State: NM 2	ip: 88	240					Α	ttn: l	<yle< td=""><td>Norr</td><td>nan</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></yle<>	Norr	nan		1											
Phone #: 575-318-5	017 Fax #:							Α	ddre	ss: 2	620 V	W Marland		1											
Project #: 6062	Project Owner:	OCP Mi	dstr	eam				С	ity: ł	lobb	S			Ä			ے								
Project Name: 6062 N	4-28 Line Leak							s	tate:	NM	Zip:	88240		5		es	Rush								
Project Location: Sampler Name: Kendon Stark								Р	hone	#: 5	75-3	318-5017		801		J.E	~	Hold							
Sampler Name: Kendon Stark							F	ax #:						BTEX	Chlorides	24-hr	ヹ						ĺ		
ARUS- C. Y	2		F		MATE	RIX		PF	RESE	RV.	SAM	PLING	표	-	Ö	24-								ı	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTA	GROUNDWATER	WASTEWATER		ĪÕ	SLUDGE	ACID/BASE			DATE	TIME	⊢											
(	HA-16 @ 3'	G	٠.	L		X			$\perp$	X		10/17/23	1032					Х							
2	HA-16 @ 4'	G	<del>  `</del>	L		X				X		10/17/23	1034	Х	Х	Х									
3	HA-17 @ 0-0.5'	G	1	L		X				X		10/18/23	1008	<u>L</u> .				Х							
4	HA-17 @ 1'	G	1 '	L		X	$\perp$		┸	X		10/18/23	1010	L_			Ĺ	Х							
5	HA-17 @ 2'	G	<u> </u>	L	$\perp$	X			$\perp$	Х		10/18/23	1012					Х							
6	HA-17 @ 3'	G	<u>.</u>			Х				Х		10/18/23	1014	Х	Х	Х									
7	HA-17 @ 4'	G	1			Х				Х		10/18/23	1016	Х	Х	Х									
8	HA-18 @ 0-0.5'	G	1			X				X		10/18/23	1018	X	Х	Х									
9	HA-18 @ 1'	G	⊥∴			Х				X		10/18/23	1020					Х							
10	HA-18 @ 2'	G	1			X				X		10/18/23	1022					Х							

PLEASE NOTE: "labify and Dartages." allong is able to real size custor remoty for any laminars ingly whether based in contract or for shall be inneed to the amount paid by the client or the amount paid by the client or inneed to the amount paid by the client or inneed to the amount paid by the client or inneed to the amount paid by the client or inneed to the amount paid by the client or inneed to the amount paid by the client or inneed to the depth of the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and inneed to the performance of services resource by Cardinal legal paid and inneed to the performance of services resource by Cardinal legal paid and inneed to the performance of services resource by Cardinal legal paid and inneed to the performance of services resource by Cardinal legal paid and inneed to the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the performance of services resource by Cardinal legal paid and the

Relinquished By:	Date: 10/5/23 Received By:  Time: Received By:  Time: Received By:	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact  Yes Yes  No No	CHECKED BY: (Initials)

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



## **ARDINAL LABORATORIES**

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: 1	usman Geosciences										-	BIL	LL TO					A	NAL	YSIS	REC	UES	ST.			
Project Manager: K	yle Norman							7	2.0.	#:				·		Ι -		Г								Т
Address: 2620 W	. Marland Blvd.							-	Comp	pany	γ: Τa	asm	an Geo		1											
City: Hobbs	State: NM	Zip: 88	240					7	Attn:	Kyle	e No	orma	an		1											
Phone #: 575-318-	5017 Fax #:							1	Addr	ess:	262	0 W.	Marland		1						ļ					
Project #: 6062	Project Owner:	DCP Mi	dstro	am				7	lity:	Hob	bs				×			_								
Project Name: 6062	M-28 lane Leak							1	tate	NM	1 Zi	ip: 88	8240		TIME I		es	S								
Project Location:						٦,	hon	e #:	575	5-31	18-5017		15	BTEX	Chloride	Rush	b									
Sampler Name: Ken	ndon Stark							T <sub>F</sub>	ax #	:					801	E	0	24-hr	Hold							
, 18 " ₽¥ OP.		Т.				MATE	RIX	_	P	RES	ERV.		SAME	PLING	TP.	ш	등	4	_	li						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACIONARSE	ICE / COOL	OTHER	DATE	TIME	T T											
11	HA-18 @ 3'	G	1			X				()	X	1	10/18/23	1024					X							
12	HA-18 @ 4'	G	1			X			Т	)	Χ	$\prod_{i}$	10/18/23	1026	Γ				Х							
13	HA-18 @ 5'	G	1			X			Т	7	X	1	10/18/23	1028	Х	Х	Х									
14	HA-18 @ 6'	G	1	Г		Х		Т	Т	7	X	1	10/18/23	1030					Х							$\Box$
15	HA-18 @ 7'	G	1		П	X				7	X	1	10/18/23	1032					Х							
14	HA-18 @ 8'	G	1	Г	П	X			T	)	x	1	10/18/23	1034	X	Х	Х									
17	HA-19 @ 0-0.5'	G	1			X	$\neg$	$\top$	$\top$	7	X	1	10/18/23	1036					Х							Г
18	HA-19 @ 1'	G	1	Г		X	$\dashv$	$\top$	$\top$	7	x	1	10/18/23	1038	Х	Х	Х									$\vdash$
19	HA-19 @ 2'	G	1		П	X	$\top$	$\top$	1	7	x	1	10/18/23	1040					Х					П		Г
20	HA-19 @ 3'	G	1	$\vdash$	$\vdash$	X	$\top$	$\dashv$	$\top$	1	x l	1	10/18/23	1042					Х				$\vdash$			$\vdash$

PLEASE WOTE: Tablis and Damages Tills draw all bit and certs exclusive emerging and users recovered to any carrier sequence based incomand on sale or interest by Cardina within 30 all as after currier of currier to the annual recovered by Cardina within 30 all as after currier or currier to the annual recovered by Cardina within 30 all as after currier to the annual recovered by Cardina within 30 all as after currier to the annual recovered by Cardina annual recovered by Cardina within 30 all as after currier to the annual recovered by Cardina annual recov

Relinquished By:	Date: Received Time: 7  Date: Received	Zdrigney	Fax Result:	Add'I Phone #:  Add'I Fax #:  asman-geo.com; bdennis@tasman-  geo.com; kstark@tasman-geo.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other	-13.0° #140	Sample Condition Cool Intact (Initials)		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Tasr	man Geosciences											BI	LL TO					A	NALYS	IS RE	QUES	T		
Project Manager: Kyle	e Norman								P.O.	#:													1	T
Address: 2620 W. I	Marland Blvd.								Con	npai	ny:	Taşı	man Geo		1									
City: Hobbs	State: NM	Zip: 88	240						Attr	: Ky	yle N	lorn	nan		1									
Phone #: 575-318-50	)17 Fax #:								Add	res	s: 26	20 V	V. Marland		1									
Project #: 6062	Project Owner	: DCP Mi	dstre	earn				$\neg$	City	: Ho	bbs				Ä			-						
Project Name: 6062_M	-28 Line Leak								Stat	e: N	М	Zip:	88240		5.0		es	डि						
Project Location:								╛	Pho	ne #	t: 5	75-3	318-5017	,	1 =	BTEX	Chlorides	24-hr Rush	PP					
Sampler Name: Kendo	on Stark							┪	Fax	#:					801	E	ō	눌	운		1 1			
FOR LAB USE ONLY			T			MAT	RIX			PRE	SER	V.	SAM	IPLING	표		등	4						
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	H									
21	HA-19 @ 4'	G	1			Х					X		10/18/23	1046	Х	Х	Х							
PLEASE NOTE: , jahrity and Darreton	es. Cardinal's klability and chant's exclusive remedy for any claim ans	ng whether he	and in /	Contract	or tor	shad h	- Irmited	to the	- I	ond h	w the c	unt for	the analysis Alice	larms including the	ne for narries	ance and ~	w offer ra-	no whater	and shall be clean			ribno and re-	and by Carefu	nel suffrer

Relinquished By:	Date: Received Time: Received	lodeigney	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -	5.02 #140	Sample Condition Cool Intact (Initials)  Yes Yes No No	



February 14, 2024

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

RE: 6062\_M-28 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 02/13/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2 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.

Celeg D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: V - 1 @ 4' (H240684-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	1.89	94.7	2.00	3.84	
Toluene*	<0.050	0.050	02/13/2024	ND	1.99	99.6	2.00	3.61	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	1.98	99.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	5.99	99.9	6.00	3.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Keene



#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

## Sample ID: V - 1 @ 8' (H240684-04)

BTEX 8021B	mg/	'kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	1.89	94.7	2.00	3.84	
Toluene*	<0.050	0.050	02/13/2024	ND	1.99	99.6	2.00	3.61	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	1.98	99.2	2.00	3.13	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	5.99	99.9	6.00	3.43	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.4	% 49.1-14	'8						

Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

## Sample ID: V - 2 @ 2' (H240684-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg Litreens



#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: V - 2 @ 8' (H240684-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	3/2024 ND 2.10		105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND 6.21		104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received:

02/13/2024

Sampling Date:

02/13/2024

Reported:

02/14/2024

Sampling Type:

Soil

Project Name:

6062\_M-28 LINE LEAK

Sampling Condition: Sample Received By: Cool & Intact Shalyn Rodriguez

Project Number:

6062

Project Location:

NONE GIVEN

Sample ID: V - 3 @ 4' (H240684-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/13/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/13/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

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\*=Accredited Analyte

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#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

6062 Project Number:

Project Location: NONE GIVEN Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

## Sample ID: V - 3 @ 8' (H240684-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/14/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

## Sample ID: HA - 5 @ 10' (H240684-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2024	ND	230	115	200	2.27	
DRO >C10-C28*	<10.0	10.0	02/14/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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#### Analytical Results For:

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

Received: 02/13/2024 Reported: 02/14/2024

Project Name: 6062\_M-28 LINE LEAK

Project Number: 6062

Project Location: NONE GIVEN

Sampling Date: 02/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

#### Sample ID: HA - 5 @ 12' (H240684-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2024	ND	2.06	103	2.00	0.0999	
Toluene*	<0.050	0.050	02/13/2024	ND	2.05	102	2.00	7.30	
Ethylbenzene*	<0.050	0.050	02/13/2024	ND	2.10	105	2.00	9.34	
Total Xylenes*	<0.150	0.150	02/13/2024	ND	6.21	104	6.00	9.96	
Total BTEX	<0.300	0.300	02/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2024	ND	230	115	200	2.27	
DRO >C10-C28*	36.0	10.0	02/14/2024	ND	231	116	200	4.88	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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## **Notes and Definitions**

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
A-01	CCV failed marginally high for GRO. GRO not detected in associated samples
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  $6^{\circ}$ C Samples reported on an as received basis (wet) unless otherwise noted on report

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## ARDINAL LABORATORIES

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: T	asman Geosciences											В	ILL TO					A	NAL	YSIS	REC	QUES	ST.		
Project Manager: K	yie Norman							$\neg$	P.O.	#:					$\vdash$					T	I				$\Box$
Address: 2620 W 3	Mariand Bivd							$\neg$	Соп	pan	y: T	asma	an Geo		1										
City: Hobbs	State: NM Zip: 88240							$\neg$	Attr	Attn: Kyle Norman					1									'	
Phone #: 575 318 5	017 Fax #:								Add	ress	: 262	20 W	Mariand		1						1			'	
Project #: 6062	Project Owner: D	CP Op	erati	ng C	omp	any			City	: Hot	obs				×				_					'	
Project Name: 6062	M-28 Line Leak								Stat	e: N!	M Z	ip: 8	88240		5 E		es		Rush						
Project Location:									Pho	ne#	: 57	5 31	8-5017		1 <del></del>	X	Chloride	Hold							
Sampler Name: Ker	don Stark								Fax	#:					8	BT	9	Ĭ	-hr						
TR AGUST ON V		$T_{\mathfrak{o}}$	Ī	F		MAT	RIX			PRE	SER	٧.	SAM	PLING	표	_	ਹ		24-						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	ОТНЕВ	DATE	TIME	Ĭ										
	V-1 @ 2'	G	1			Х					X		2/13/24	1000				Х							
2	V-1 @ 4'	G	1			X					X		2/13/24	1002	Х	Х	Х		Х						
3	V-1 @ 6'	G	1_			Х					Х		2/13/24	1004				Х							
4	V-1 @ 8'	G	1			Х					X		2/13/24	1006	Х	Х	Х		Х						
5	V-2 @ 2'	G	1			Х					X		2/13/24	1008	Х	Х	Х		Х						
Ü	V-2 @ 4'	G	1			Х					X		2/13/24	1010				Х							
7	V-2 @ 6'	G	1			Х					X		2/13/24	1012				Х							
8	V-2 @ 8'	G	1			Х					Х		2/13/24	1014	Х	Х	Х		Х						
9	V-3 @ 2'	G	<u> </u>			Х					X		2/13/24	1016				Х							
10	V-3 @ 4'	G	1			Х					X		2/13/24	1018	Х	Х	Х		Х						

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Relinquished By: Relinquished By:	Date: 2/13/24 Receive	loderon	Ull	Fax Result:	Add1 Phone #:  Add1 Fax #:  asman-geo.com n; Albert.L.Hyman@p66.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5	#140	Sample Condition Cool Intact  Yes Yes  No No	CHECKED BY: (Initials)		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Fasman Geosciences				BILL TO			ANALYSIS REQUEST																			
Project Manager: Kyle Norman				P.O. #:									Γ													
Address: 2620 W	Mariand Bivd								Company: Tasman Geo			1														
City: Hophs	State: NM Zip: 88240								Attn: Kyle Norman			]						1								
Phone #: 575-318-	501° Fax #:								Address: 2620 W Marland			1										i '				
Project #: 6062	Project Owner:	ЭСР Ор	erat	ing C	omp	any			City	: Ho	bbs				X				ے							ĺ
Project Name: 6062	M 28 Line Leak								Stat	e: N	м 2	Zip: 8	88240		2 2		es	l _	Rush							
Project Location:									Pho	ne #	: 57	5-31	8-5017		I ←	BTEX	Chloride	Hold	4-hr Ri							
Sampler Name: Ker	ndon Stark								Fax						8	BT	은	Ĕ			1					
Fra AAUSFOU +			Г	F		MAT	RIX			PRI	SER	V.	SAM	PLING	] 문		$\overline{\circ}$	ļ	24							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	110	SLUDGE	ОТНЕВ	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	_											
(1	V-3 @ 6'	G	1	L		X					Х		2/13/24	1020				Х								
19	V-3 @ 8'	G	1			X					X		2/13/24	1022	Х	Х	Х	<u> </u>	Х				<u> </u>			L_
13	HA-5 @ 8'	G	1			X					X		2/13/24	1024				Х		<u></u>						
14	HA-5 @ 10'	G	1			Х					Х		2/13/24	1026	Х	X	Х	L.,	Х		<u> </u>					
15	HA-5 @ 12'	G	1	$\Box$		X					Х		2/13/24	1028	Х	Х	Х		Х							
10			L	L	L			L.							L		<u> </u>									
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Relinquished By:	Date: Z/13/Z4 Received Time: 15:25  Date: Received	d By:  WORD PURPLE  d By:		□ Yes □ No ults: NMData@ta	Add   Phone #:   Add   Fax #:   asman-geo.com   n; Albert.L.Hyman@p66.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#140		ECKED BY: (initials)		

<sup>†</sup> Cardinal cannot accept verbal changes. Please lax written changes to 505-393-2476

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

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

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

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

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

QUESTIONS

Action 390858

## **QUESTIONS**

Operator:	OGRID:
DCP OPERATING COMPANY, LP	36785
2331 Citywest Blvd	Action Number:
Houston, TX 77042	390858
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2319359955				
Incident Name	NAPP2319359955 M-28 LINE @ 0				
Incident Type	Blow Out				
Incident Status	Remediation Plan Received				

Location of Release Source						
Please answer all the questions in this group.						
Site Name	M-28 LINE					
Date Release Discovered	07/11/2023					
Surface Owner	State					

Incident Details	
Please answer all the questions in this group.	
Incident Type	Blow Out
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release						
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.						
Crude Oil Released (bbls) Details	Not answered.					
Produced Water Released (bbls) Details	Cause: Blow Out   Pipeline (Any)   Produced Water   Released: 9 BBL   Recovered: 0 BBL   Lost: 9 BBL.					
Is the concentration of chloride in the produced water >10,000 mg/l	No					
Condensate Released (bbls) Details	Not answered.					
Natural Gas Vented (Mcf) Details	Not answered.					
Natural Gas Flared (Mcf) Details	Not answered.					
Other Released Details	Not answered.					
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.					

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 390858

**Santa Fe, NM 87505** 

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator:  DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
In Wat Programs	
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	refety hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Ray Smalts

Title: Sr Environmental Eng/Spec

Date: 10/08/2024

Email: raymond.a.smalts@p66.com

I hereby agree and sign off to the above statement

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

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

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

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

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

QUESTIONS, Page 3

Action 390858

**QUESTIONS** (continued)

Operator:	OGRID:
DCP OPERATING COMPANY, LP	36785
2331 Citywest Blvd	Action Number:
Houston, TX 77042	390858
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Site Characterization						
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.						
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)					
What method was used to determine the depth to ground water	NM OSE iWaters Database Search					
Did this release impact groundwater or surface water	No					
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:					
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)					
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)					
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)					
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)					
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)					
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)					
A wetland	Between 500 and 1000 (ft.)					
A subsurface mine	Between 1 and 5 (mi.)					
An (non-karst) unstable area	Between ½ and 1 (mi.)					
Categorize the risk of this well / site being in a karst geology	Low					
A 100-year floodplain	Greater than 5 (mi.)					
Did the release impact areas not on an exploration, development, production, or storage site	Yes					

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	led to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, i	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	14200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	199
GRO+DRO (EPA SW-846 Method 8015M)	138
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	12/02/2024
On what date will (or did) the final sampling or liner inspection occur	12/16/2024
On what date will (or was) the remediation complete(d)	12/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	15000
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	6000
What is the estimated volume (in cubic yards) that will be remediated	1500
These estimated dates and measurements are recognized to be the best guess or calculation	n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjuste	ed in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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

QUESTIONS, Page 4

Action 390858

#### **QUESTIONS** (continued)

Operator:	OGRID:
DCP OPERATING COMPANY, LP	36785
2331 Citywest Blvd	Action Number:
Houston, TX 77042	390858
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Remediation Plan (continued)				
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.  This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:				
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes			
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]			
OR which OCD approved well (API) will be used for off-site disposal	Not answered.			
OR is the off-site disposal site, to be used, out-of-state	Not answered.			
OR is the off-site disposal site, to be used, an NMED facility	Not answered.			
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.			
(In Situ) Soil Vapor Extraction	Not answered.			
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.			
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.			
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.			
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.			
OTHER (Non-listed remedial process)	Not answered.			

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation

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.

I hereby agree and sign off to the above statement

Name: Ray Smalts

Title: Sr Environmental Eng/Spec Email: raymond.a.smalts@p66.com

Date: 10/08/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 390858

**QUESTIONS** (continued)

Operator:	OGRID:
DCP OPERATING COMPANY, LP	36785
2331 Citywest Blvd	Action Number:
Houston, TX 77042	390858
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

#### Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

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

QUESTIONS, Page 6

Action 390858

<b>QUESTIONS</b>	(continued)
QUESTIONS!	(COHUHUCU)

DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	36785 Action Number: 390858			
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			
QUESTIONS				
Sampling Event Information				
Last sampling notification (C-141N) recorded	{Unavailable.}			
Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.			
Requesting a remediation closure approval with this submission	No			

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CONDITIONS

Action 390858

## **CONDITIONS**

Operator:	OGRID:
DCP OPERATING COMPANY, LP	36785
2331 Citywest Blvd	Action Number:
Houston, TX 77042	390858
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance is approved for 400 ft2 floor confirmation samples in the Release/Overspray Areas. The release area will still need confirmation sidewall samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation/revegetation standards set forth in the OCD Spill Rule.	11/1/2024