

E LINE LEAK

Remediation Action Plan

NMOCD Incident No. nAPP2323641677
UL "B", Sec. 20, T17S, R33E
32.82663 -103.68329
Lea County, New Mexico

January 30, 2025



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



January 30, 2025

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

Attn: Mr. Steve Weathers
Email: stephen.weathers@p66.com

Re: Remediation Action Plan
E Line Leak
UL "M", Section 17, Township 18 South, Range 33 East
Lea County, New Mexico
NMOCD Incident No. nAPP2323641677
Tasman Project No. 6242

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 36,007 square foot area that had been impacted by the release. The release area was then vertically, and horizontally delineated. Based on laboratory analytical results from soil samples collected during 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
Senior Project Manager
bdennis@tasman-geo.com

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

TABLE OF CONTENTS

1.0 INTRODUCTION	1
1.1 Site Description	1
1.2 Cultural Properties and Biological Review	1
1.3 Release Detail and Initial Response	1
2.0 SITE CHARACTERISTICS	2
2.1 Depth to Groundwater	2
2.2 Karst Potential & Subsurface Mines	2
2.3 Distance to Nearest Potable Water Well	2
2.4 Distance to Nearest Surface Water	3
2.5 100-year Floodplain	3
2.6 Residence, School, Hospital, or Institution	3
2.7 Proximity to Sensitive Receptors and Site Characteristics Summary	3
3.0 REMEDIATION ACTION LEVELS	4
3.1 Reclamation Levels	4
4.0 RELEASE ASSESSMENT	4
4.1 Soil Sampling Procedures for Laboratory Analysis	5
4.2 Soil Analytical Methods	5
4.3 Release Area Assessment Data Evaluation	5
5.0 PROPOSED REMEDIAL ACTIONS	6
6.0 PROPOSED RECLAMATION AND REVEGETATION	6

Figures

- Figure 1 – Site Location & Groundwater Map
- Figure 2 – Karst Potential & Subsurface Mine Map
- Figure 3 – Surface Water Map
- Figure 4 – FEMA FIRMetete Map
- Figure 5 – Delineation Overview Map

Tables

- Table 1 – Soil Sample Analytical Summary – Delineation Soil Samples

Appendix A – ARMS Review

Appendix B – CEHMM Correspondence

Appendix C – NMOCD Notifications

Appendix D – Depth to Groundwater Information

Appendix E – Photographic Log

Appendix F – Certified Laboratory Analytical Reports

1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the E 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 “B” of Section 20, Township 17 South, Range 33 East in Lea County, New Mexico. The release occurred from the E Line produced water pipeline. The release occurred on New Mexico State Land Office (NMSLO) property.

1.2 Cultural Properties and Biological Review

Request for the review of archeological data provided from the Archaeological Records Management Section (ARMS) indicates the site is not located within an archeological site. A third party conducted a review of the New Mexico Cultural Resource Information System (NMCIRS) on September 6, 2023 as Activity Number 153862 and performed field investigations on September 12, 2024. Neither desktop or field investigations showed evidence of cultural resources at the site. A copy of the third-party ARMS review cover page is provided in Appendix A and a copy of the NMCIRS Investigation Abstract Form can be provided upon request.

Request for the review of Dunes Sagebrush Lizard (DSL) habitat data provided from the Center for Environmental Health Monitoring and Management (CEHMM) indicates the site is not located within DSL habitat. A copy of the email correspondence is provided in Appendix B.

1.3 Release Detail and Initial Response

On August 23, 2023, the E Line pipeline was discovered by DCP personnel to have failed due to corrosion. On August 24, 2023, DCP provided notice of release to the NMOCD portal and to the NMSLO by email on September 6, 2023. An Initial C-141 was submitted via OCD online portal on August 25, 2023. The release resulted in the loss of approximately 18 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 C.

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 within the NMOCD preferred parameters is located 0.37 miles east of the site, identified as USGS 324913103403501. Depth to groundwater was measured at 193 feet below ground surface (ft bgs) in 2022.

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 D.

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 assumed to be USGS 324913103403501, located 0.37 miles from the site. Tasman did not visually confirm the presence of the well. The location of USGS 324913103403501 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, a freshwater pond, is located approximately 0.30 miles from the site. The nearest significant surface water was identified as White Lake, located 2.78 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 FIRMet 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 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:	193 ft bgs	
Within an area of high karst potential?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of any continuously flowing of significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 500 ft. of a spring or private, domestic fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 1,000 ft. of any fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the incorporated municipal boundaries or within a municipal well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within an unstable area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

3.0 REMEDIATION 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, the NMOCD Action Levels for a site with a depth to groundwater of 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

3.1 Reclamation Levels

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

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

4.0 RELEASE ASSESSMENT

On August 23, 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 36,007 square feet (ft²). A photographic log of the release area is included as Appendix E. Three soil borings (HA-1 through HA-3) were advanced by hand auger. The collected samples were field screened using a photoionization detector for the presence of volatile organic compounds and field titration kit for chlorides. See Table 1 for the field screening results.

On October 29 through 31, 2024, Tasman advanced 14 delineation trenches using machinal equipment, referred to as verticals (V-1 through V-14), to delineate the release area. Verticals were advanced to depths ranging from 2 ft bgs to 8 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 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 total TPH were detected above Remediation levels in the soil samples collected from verticals V-1 at 0-0.5 ft bgs (22,640 mg/kg) and 2 ft bgs (1,242 mg/kg), V-2 at 0-0.5 ft bgs (12,140 mg/kg) and 2 ft bgs (1,490 mg/kg), V-4 @ 0-0.5 ft bgs (177 mg/kg), and V-13 at 0-0.5 ft bgs (970 mg/kg). The remaining samples did not show any detectable amounts of TPH. It should be noted that samples were incorrectly designated as composite samples on the laboratory chain of custody form.

Concentrations of chlorides were detected above Remediation levels in the soil samples collected from vertical V-1 at 0-0.5 ft bgs (6,240 mg/kg) and 2 ft bgs (656 mg/kg) and V-2 at 0-0.5 ft bgs (1,390 mg/kg). The remaining samples exhibited concentrations ranging from 16.0 mg/kg to 560 mg/kg.

Concentrations of BTEX were not detected above the laboratory reported detection limit in any of the collected soil samples.

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

5.0 PROPOSED REMEDIAL ACTIONS

Tasman proposes to remediate the site using physical removal of soil within the delineated area of the release. The area surrounding vertical V-1 and V-2 will be excavated to a depth of 4-6 ft bgs and the area surrounding V-4 and V-13 will be excavated to a depth of approximately 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 Remediation Levels 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 ft². Confirmation sampling activities and laboratory analysis will be conducted as described in Sections 4.1 and 4.2.

6.0 PROPOSED RECLAMATION AND REVEGETATION

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

Review of the USGS Web Soil Survey indicates that the site consists primarily of Kimbrough gravely loam to a depth of 10 inches, at which point cemented materials are expected to be encountered. Tasman proposes to seed the site using the NMSLO Course Mix in accordance with the USGS Web Soil Survey Characterization.

E Line Leak - nAPP2323641677
Remediation Action Plan



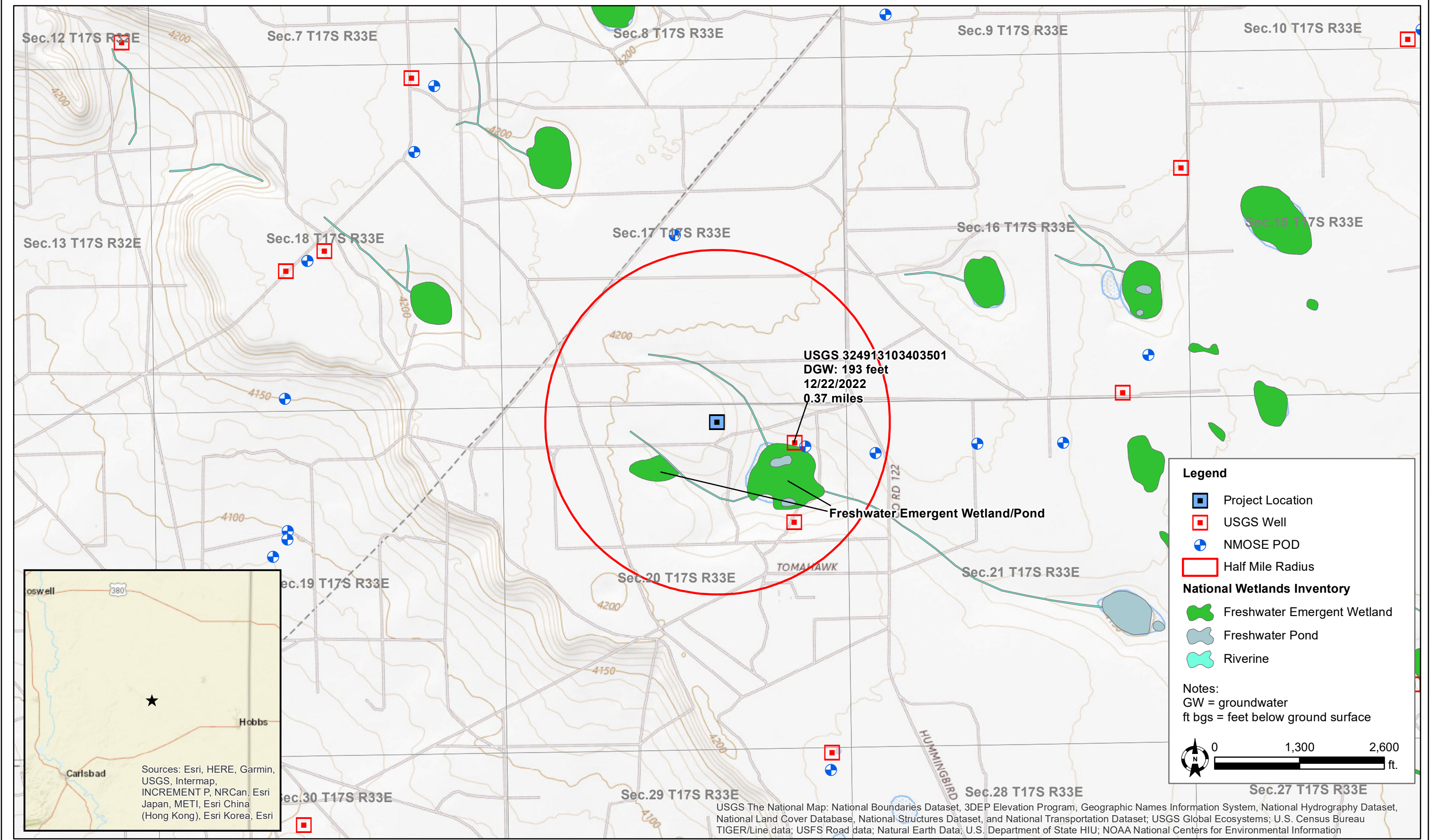
NMSLO COURSE MIX	
Common Name	PLS/acre
Sand Bluestem	2.0
Sideoats Grama	2.0
Blue Grama	1.5
Little Bluestem	1.5
Sand Dropseed	1.0
Plains Bristlegrass	0.75
Parry Penstemon	1.0
Desert Globemallow	1.0
White Prairieclover	0.5
Sulfur Buckwheat	0.5
Fourwing Saltbush	1.0
Skunkbush Sumac	1.0
Common Winterfat	1.0
Fringed Sagewort	0.5

PLS = pure live seed

Prior to seed application, the disturbed soil will be prepped using a disced plow or like. The seed mix will then 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.

Once per quarter DCP will arrange for the site to be inspected for vegetative growth and the presence of noxious and/or invasive weeds. If weeds are observed, DCP will arrange for the reclaimed areas to be appropriately treated for the undesired species. The monitoring period will continue until uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds (NMAC 19.15.29.13(D)(3)).

Figures



DATE:	November 2024
DESIGNED BY:	K. Stark
DRAWN BY:	K. Stark

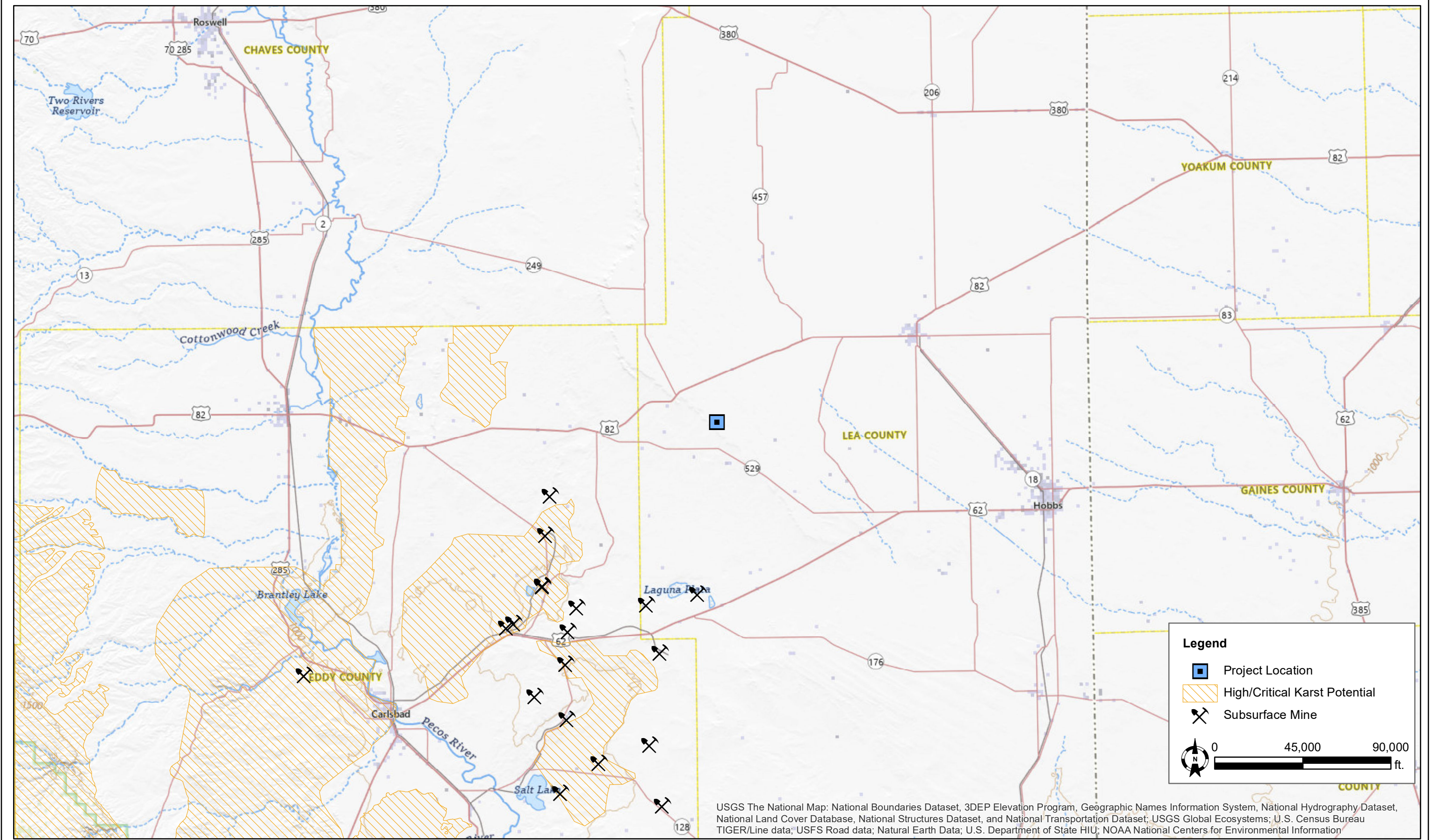


Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

DCP Operating Company, LP
E Line Leak - nAPP2323641677
UL "B", Sec. 20, T17S, R33E
Lea County, New Mexico

Site Location & Groundwater
Map

Figure
1



DATE:	October 2024
DESIGNED BY:	K. Stark
DRAWN BY:	K. Stark

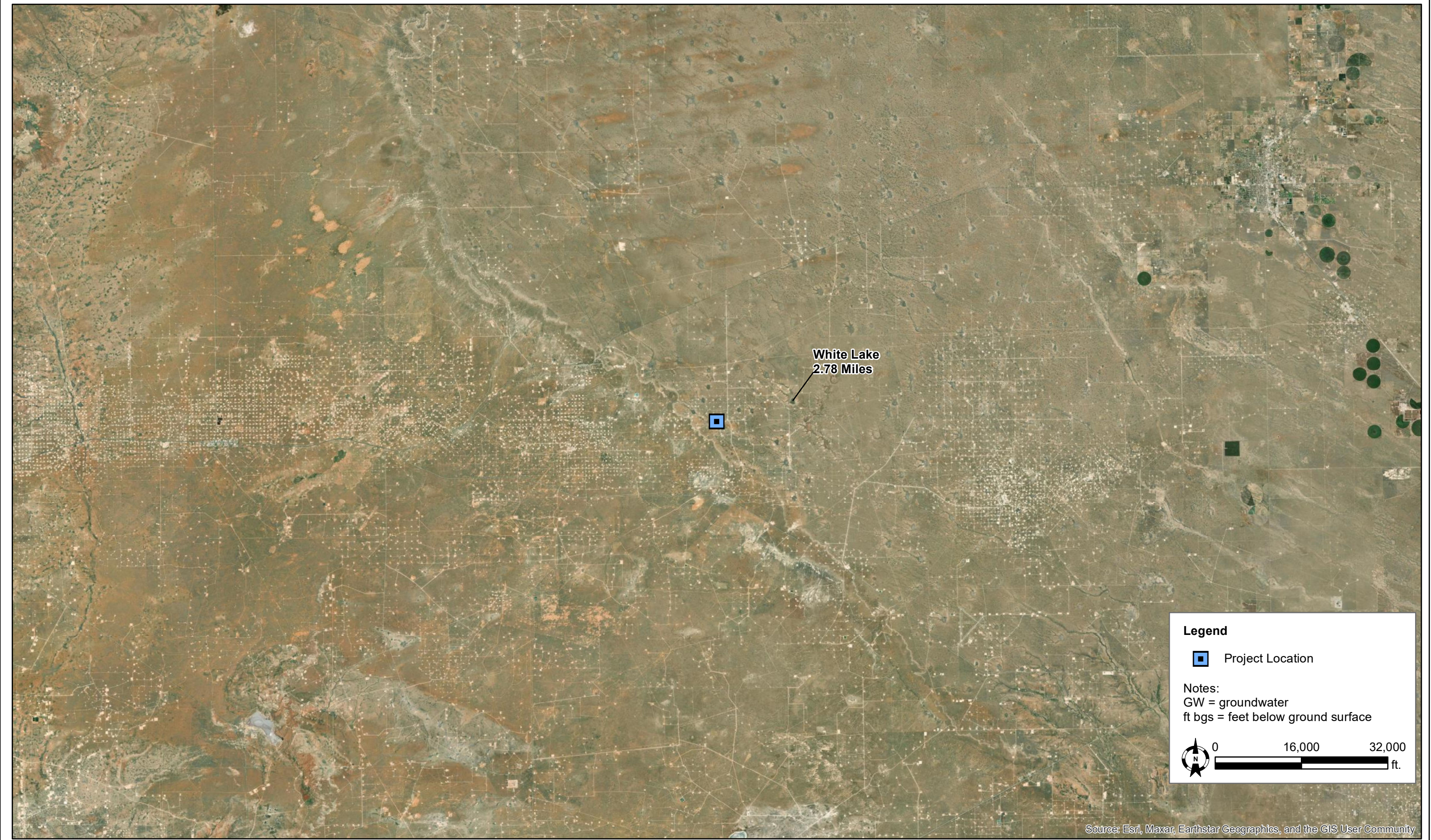


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Broomfield, CO 80020

DCP Operating Company, LP
E Line Leak - nAPP2323641677
UL "B", Sec. 20, T17S, R33E
Lea County, New Mexico

Karst Potential & Subsurface
Mine Map

Figure
2



DATE:	October 2024
DESIGNED BY:	K. Stark
DRAWN BY:	K. Stark



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6855 W. 119th Ave
Broomfield, CO 80020

DCP Operating Company, LP
E Line Leak - nAPP2323641677
UL “B”, Sec. 20, T17S, R33E
Lea County, New Mexico

Surface Water Map

Figure
3

National Flood Hazard Layer FIRMette



103°41'18"W 32°49'51"N



1:6,000

103°40'41"W 32°49'20"N

Legend

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

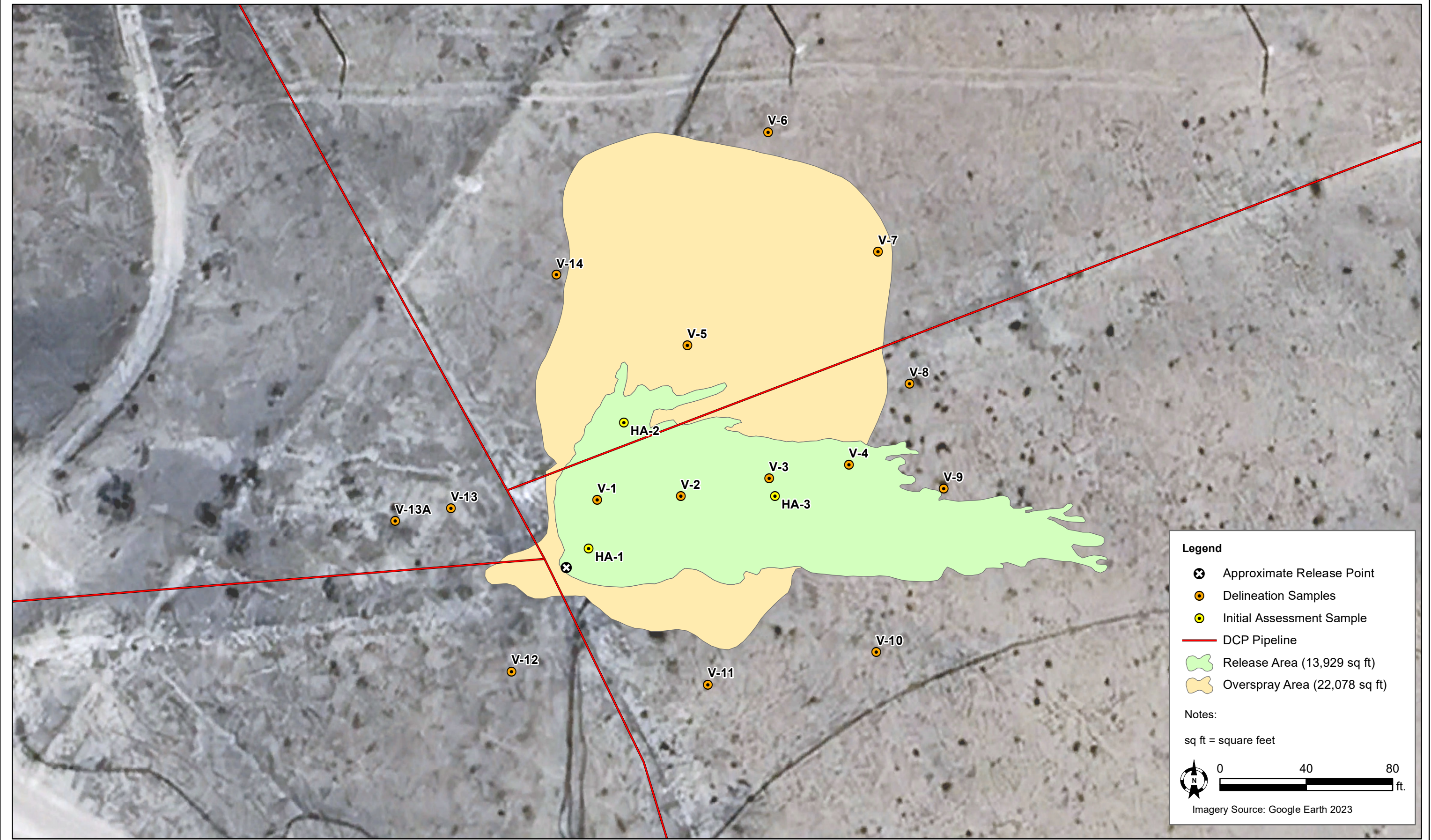
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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 10/29/2024 at 3:13 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.



DATE:	September 2024
DESIGNED BY:	B. Bastos
DRAWN BY:	K. Stark



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6855 W. 119th Ave
Broomfield, CO 80020

DCP Operating Company, LP
E Line Leak - nAPP2323641677
UL "B", Sec. 20, T17S, R33E
Lea County, New Mexico

Delineation Overview Map

Figure
5

Table

TABLE 1
SOIL ANALYTICAL SUMMARY
DCP Operating Company, LP
E Line Leak - nAPP2323641677

Sample ID	Sample Depth (bgs)	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
Site Assessment Soil Samples												
HA-1	0-0.5'	8/23/2023	In-Situ	>5,000	1,043	---	---	---	---	---	---	---
HA-2	0-0.5'	8/23/2023	In-Situ	3,863	1,682	---	---	---	---	---	---	---
HA-3	0-0.5'	8/23/2023	In-Situ	4,662	588	---	---	---	---	---	---	---
Delineation Soil Samples												
V-1	0-0.5'	10/29/2024	In-Situ	0.5	4,529	<0.050	<0.300	<50.0	17,800	4,840	22,640	6,240
	2'		In-Situ	3.0	673	<0.050	<0.300	<10.0	955	287	1,242	656
	4'	11/7/2024	In-Situ	0.3	198	---	---	---	---	---	---	---
	6'		In-Situ	0.2	149	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
V-2	0-0.5'	10/29/2024	In-Situ	0.3	1,957	<0.050	<0.300	<10.0	9,640	2,500	12,140	1,390
	2'		In-Situ	0.3	655	<0.050	<0.300	<10.0	1,110	380	1,490	560
	4'	11/8/2024	In-Situ	0.5	112	---	---	---	---	---	---	---
	6'		In-Situ	0.5	90	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
V-3	0-0.5'	10/29/2024	In-Situ	0.4	291	<0.050	<0.300	<10.0	548	299	847	96.0
	2'		In-Situ	0.7	144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	144
	3'		In-Situ	0.5	227	---	---	---	---	---	---	---
	4'		In-Situ	0.3	209	---	---	---	---	---	---	---
V-4	0-0.5'	10/30/2024	In-Situ	0.6	142	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
	2'		In-Situ	0.4	117	<0.050	<0.300	<10.0	109	67.9	177	32.0
	4'		In-Situ	0.3	143	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
	6'		In-Situ	0.7	151	---	---	---	---	---	---	---
V-5	0-0.5'	10/30/2024	In-Situ	0.2	139	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	2'		In-Situ	0.2	113	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-6	0-0.5'	10/30/2024	In-Situ	0.2	235	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160
	2'		In-Situ	0.4	118	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
V-7	0-0.5'	10/30/2024	In-Situ	0.4	222	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	2'		In-Situ	0.2	117	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	4'		In-Situ	0.3	148	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	4'		In-Situ	0.7	148	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
V-8	0-0.5'	10/31/2024	In-Situ	0.1	141	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	2'		In-Situ	0.5	203	---	---	---	---	---	---	---
	4'		In-Situ	0.7	282	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	208
	6'		In-Situ	0.3	167	---	---	---	---	---	---	---
V-9	0-0.5'	10/31/2024	In-Situ	0.3	141	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
	2'		In-Situ	0.4	287	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
V-10	0-0.5'	10/31/2024	In-Situ	0.1	300	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	192
	2'		In-Situ	0.2	211	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	160
	4'		In-Situ	0.4	116	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	6'		In-Situ	0.1	150	---	---	---	---	---	---	---
V-11	0-0.5'	10/31/2024	In-Situ	0.5	176	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
	2'		In-Situ	0.3	225	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
V-12	0-0.5'	10/31/2024	In-Situ	0.1	117	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	2'		In-Situ	0.1	243	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
V-13	0-0.5'	10/31/2024	In-Situ	0.6	113	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	2'		In-Situ	0.5	200	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	192
V-13A	0-0.5'	11/7/2024	In-Situ	0.4	233	<0.050	<0.300	<10.0	544	426	970	96.0
	2'		In-Situ	0.5	263	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	256
	4'		In-Situ	0.0	87	---	---	---	---	---	---	---
	6'		In-Situ	0.0	117	---	---	---	---	---	---	---
V-14	0-0.5'	10/31/2024	In-Situ	0.0	226	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	208
	2'		In-Situ	0.0	170	---	---	---	---	---	---	---
V-14	0-0.5'	10/31/2024	In-Situ	0.7	169	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	2'		In-Situ	0.7	203	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	144
NMOCD Reclamation Levels				N/A	N/A	10	50	N/A			100	600
NMOCD Action Levels ⁴				N/A	N/A	10	50	1,000	N/A	2,500	20,000	

Notes:

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

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

3. Chloride - Analyzed by EPA method SM4500

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

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

N/A = Not applicable

Bold values denote concentrations above laboratory 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)

Appendix A – ARMS Review

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 8 6 2

Registration

Lead Agency: New Mexico State Land Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 78689
Phase 5

Performing Agency Report No: 23-645

Report Recipient (Your Client): DCP Operating Company, LP

- Activity Types:
- ☐ Research Design
 - ☒ Archaeological Survey/Inventory
 - ☐ Architectural Survey/Inventory
 - ☐ Test Excavation
 - ☐ Monitoring
 - ☐ Collections/Non-Field Study
 - ☐ Compliance Decision
 - ☐ Literature Review Overview
 - ☐ Excavation
 - ☐ Ethnographic Study
 - ☐ Resource/Property Visit
 - ☐ Historic Structures Report
 - ☐ Other:

Total Survey Acreage: 3.63

Total Tribal Acreage: 0.00

Total Resources Visited: 0

Appendix B – CEHMM Correspondence

Appendix C – NMOCD Notifications

Kyle Norman

From: Ryan Schmidt <ryan.schmidt@cehmm.org>
Sent: Friday, September 20, 2024 7:58 AM
To: Kyle Norman
Cc: Matt Mathis; Weathers, Stephen; Cook, John W; Brett Dennis
Subject: Re: Phillips 66 Pipeline Leaks/DSL Habitat Look Up

Good morning Kyle,

Here is what we found while reviewing each line:

- M0-2449_B-10 Line Leak
 - **Not in DSL habitat**
-
- R1-4786_O-1 Line Leak
 - **Spill is in suitable DSL habitat**
-
- R1-8271_A-2-3-5 Ext 2 Line Leak (5.1.23)
 - **Not in DSL habitat**
-
- R3-7364_11-6-0-7 Line Leak (5.24.23)
 - **Not in DSL habitat**
-
- R2-2670_M-28 Line Leak (7.11.2023)
 - **Spill is in potentially suitable DSL habitat**
-
- R1-5310_B Line Leak (8.7.23)
 - **Not in DSL habitat**
-
- R1-4320_E Line Leak (8.23.23)
 - **Not in DSL habitat**
-
- R1-8008_A-2-3-7 Ext Line Leak
 - **Not in DSL habitat**
-
- M1-3565_D Ext 3 Line Leak
 - **Not in DSL habitat**

Best regards,

Ryan Schmidt
Operations Manager
O: (575) 885-3700 C: (575) 607-5253



From: Kyle Norman <knorman@tasman-geo.com>
Sent: Wednesday, September 18, 2024 10:45 AM
To: Ryan Schmidt <ryan.schmidt@cehmm.org>
Cc: Matt Mathis <matt.mathis@cehmm.org>; Weathers, Stephen <Stephen.Weathers@p66.com>; Cook, John W <John.W.Cook2@p66.com>; Brett Dennis <bdennis@tasman-geo.com>
Subject: Phillips 66 Pipeline Leaks/DSL Habitat Look Up

Good morning, Ryan,

Please see the attached kmz of the four sites below. They are all pipeline releases on Phillips 66 pipelines. Can you please let us know if they are in the DSL habitat.

M0-2449_B-10 Line Leak GPS: 32.478108, -103.253234
R1-4786_O-1 Line Leak GPS: 32.78793, -103.81779
R1-8271_A-2-3-5 Ext 2 Line Leak (5.1.23) GPS: 32.82257, -103.47281
R3-7364_11-6-0-7 Line Leak (5.24.23) GPS: 32.872092, -103.347754
R2-2670_M-28 Line Leak (7.11.2023) GPS: 32.697537, -103.99317
R1-5310_B Line Leak (8.7.23) GPS: 32.799148, -103.437051
R1-4320_E Line Leak (8.23.23) GPS: 32.82663, -103.68329
R1-8008_A-2-3-7 Ext Line Leak GPS: 32.81748, -103.49475
M1-3565_D Ext 3 Line Leak GPS: 32.51524, -103.32485

Please let me know if you have any questions.

Thank you

Kyle Norman
SW Regional Manager

Tasman, Inc.
C: 575-318-5017
knorman@tasman-geo.com
www.tasman-geo.com



Celebrating 15 Years!

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 257245

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 257245
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	E Line Leak
Date Release Discovered	08/23/2023
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
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: 17 BBL Recovered: 0 BBL Lost: 17 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Blow Out Pipeline (Any) Natural Gas Vented Released: 48 Mcf Recovered: 0 Mcf Lost: 48 Mcf.
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.

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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 257245

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 257245
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring 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.	
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.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Action 257245

ACKNOWLEDGMENTS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 257245
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I 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 NMAC 19.15.29.
<input checked="" type="checkbox"/>	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 corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I 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 contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	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 regulations.

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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

CONDITIONS

Action 257245

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 257245
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
knorman	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/24/2023

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2323641677
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party DCP Operating Company, LP	OGRID 36785
Contact Name Raymond Smalts	Contact Telephone 575-234-6405
Contact email Raymond.A.Smalts@p66.com	Incident # (assigned by OCD)
Contact mailing address 5301 Sierra Vista Drive	Carlsbad, NM 88220

Location of Release Source

Latitude 32.82663 Longitude -103.68329
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: E Line Leak	Site Type: Blow Out
Date Release Discovered: 8/23/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	20	17S	33E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 16.61 bbls	Volume Recovered (bbls): N/A
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 48.24 mcf	Volume Recovered (Mcf): N/A
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

On August 23, 2023, DCP Ops discovered a leak on the E pipeline due to internal corrosion and resulting in a blow out. DCP Ops has shut in the pipeline and scheduled for repairs.

Form C-141

State of New Mexico
Oil Conservation Division

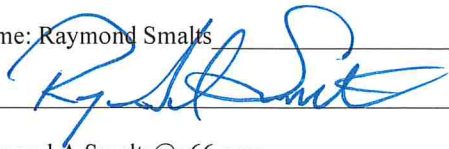
Page 2

Incident ID	nAPP2323641677
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Raymond Smalts</u>	Title: Sr. Environmental Engineer _____
Signature: 	Date: <u>8/24/2025</u>
email: <u>Raymond.A.Smalts@p66.com</u>	Telephone: <u>575-234-6405</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Barrels Released Calculation

4 inch Saturation

$$\frac{\text{Square Footage}}{27} \times 3000 \times \text{Height (ft)} \times 0.3333333 = 37.03704 \text{ feet}^3$$

$$37.037037 \times 0.1781 = 6.5962963 \text{ barrels released}$$

1 inch saturation

$$\frac{\text{Square Footage}}{27} \times 6000 \times \text{Height (ft)} \times 0.08333333 = 18.51852$$

$$18.518519 \times 0.1781 = 3.2981481 \text{ barrels released}$$

2 inch Saturation

$$\frac{\text{Square Footage}}{27} \times 5000 \times \text{Height (ft)} \times 0.166667 = 30.8642$$

$$30.8642 \times 0.1781 = 5.496914 \text{ barrels released}$$

Overspray

$$\frac{\text{Square Footage}}{27} \times 18500 \times \text{Height (ft)} \times 0.01 = 6.851852$$

$$6.851852 \times 0.1781 = 1.220315 \text{ barrels released}$$

Total Released 16.61 bbls

From: [Kyle Norman](#)
To: eco@slo.state.nm.us
Cc: kelly.r.michael@p66.com; [Smalts, Raymond A](#); [Case, Nicholas L](#); [Daly, Stacey](#); [Brett Dennis](#); [Laura Flores](#)
Subject: Leak Notification 6242_E Line Leak (8.23.23)_nAPP2323641677
Date: Wednesday, September 6, 2023 12:57:00 PM
Attachments: [E Line Leak - Initial C-141 - nAPP2323641677 \(signed\).pdf](#)
[image001.png](#)

Good afternoon,

Please find attached the Initial C-141 for the 6242_E Line Leak (8.23.23) Incident # nAPP2323641677.

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 D – Depth to Groundwater Information



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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 =

- 324913103403501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324913103403501 17S.33E.20.24132

Lea County, New Mexico
Latitude 32°49'20.4", Longitude 103°40'46.1" NAD83
Land-surface elevation 4,173.00 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

10/31/23, 10:43 AM

USGS Groundwater for USA: Water Levels -- 1 sites

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
1966-02-11			D	62610	4007.66	NGVD29	1	Z			A
1966-02-11			D	62611	4009.31	NAVD88	1	Z			A
1966-02-11			D	72019	165.34		1	Z			A
1971-02-15			D	62610	4009.55	NGVD29	1	Z			A
1971-02-15			D	62611	4011.20	NAVD88	1	Z			A
1971-02-15			D	72019	163.45		1	Z			A
1976-02-18			D	62610	4009.27	NGVD29	1	Z			A
1976-02-18			D	62611	4010.92	NAVD88	1	Z			A
1976-02-18			D	72019	163.73		1	Z			A
1981-01-27			D	62610	4007.70	NGVD29	1	Z			A
1981-01-27			D	62611	4009.35	NAVD88	1	Z			A
1981-01-27			D	72019	165.30		1	Z			A
1986-04-09			D	62610	4007.67	NGVD29	1	Z			A
1986-04-09			D	62611	4009.32	NAVD88	1	Z			A
1986-04-09			D	72019	165.33		1	Z			A
1990-02-12			D	62610	4001.47	NGVD29	1	Z			A
1990-02-12			D	62611	4003.12	NAVD88	1	Z			A
1990-02-12			D	72019	171.53		1	Z			A
1996-04-02			D	62610	4002.55	NGVD29	1	S			A
1996-04-02			D	62611	4004.20	NAVD88	1	S			A
1996-04-02			D	72019	170.45		1	S			A
2001-02-20			D	62610	4004.44	NGVD29	1	S			A
2001-02-20			D	62611	4006.09	NAVD88	1	S			A
2001-02-20			D	72019	168.56		1	S			A
2006-01-19	21:29 UTC		m	62610	4002.75	NGVD29	1	S	USGS	S	A
2006-01-19	21:29 UTC		m	62611	4004.40	NAVD88	1	S	USGS	S	A
2006-01-19	21:29 UTC		m	72019	170.25		1	S	USGS	S	A
2010-12-15	19:30 UTC		m	62610	3987.06	NGVD29	1	S	USGS	S	A
2010-12-15	19:30 UTC		m	62611	3988.71	NAVD88	1	S	USGS	S	A
2010-12-15	19:30 UTC		m	72019	185.94		1	S	USGS	S	A
2016-01-05	19:13 UTC		m	62610	3985.34	NGVD29	1	S	USGS	S	A

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
2016-01-05	19:13 UTC	m	62611		3986.99	NAVD88	1	S	USGS	S	A
2016-01-05	19:13 UTC	m	72019	187.66			1	S	USGS	S	A
2020-12-16	22:30 UTC	m	62610		3996.64	NGVD29	P	S	USGS	S	A
2020-12-16	22:30 UTC	m	62611		3998.29	NAVD88	P	S	USGS	S	A
2020-12-16	22:30 UTC	m	72019	176.36			P	S	USGS	S	A
2021-12-16	16:27 UTC	m	62610		3996.56	NGVD29	1	S	USGS	S	A
2021-12-16	16:27 UTC	m	62611		3998.21	NAVD88	1	S	USGS	S	A
2021-12-16	16:27 UTC	m	72019	176.44			1	S	USGS	S	A
2022-12-22	21:55 UTC	m	62610		3979.99	NGVD29	1	S	USGS	S	A
2022-12-22	21:55 UTC	m	62611		3981.64	NAVD88	1	S	USGS	S	A
2022-12-22	21:55 UTC	m	72019	193.01			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.

Section	Code	Description
Water-level approval status	A	Approved for publication -- Processing and review completed.

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- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

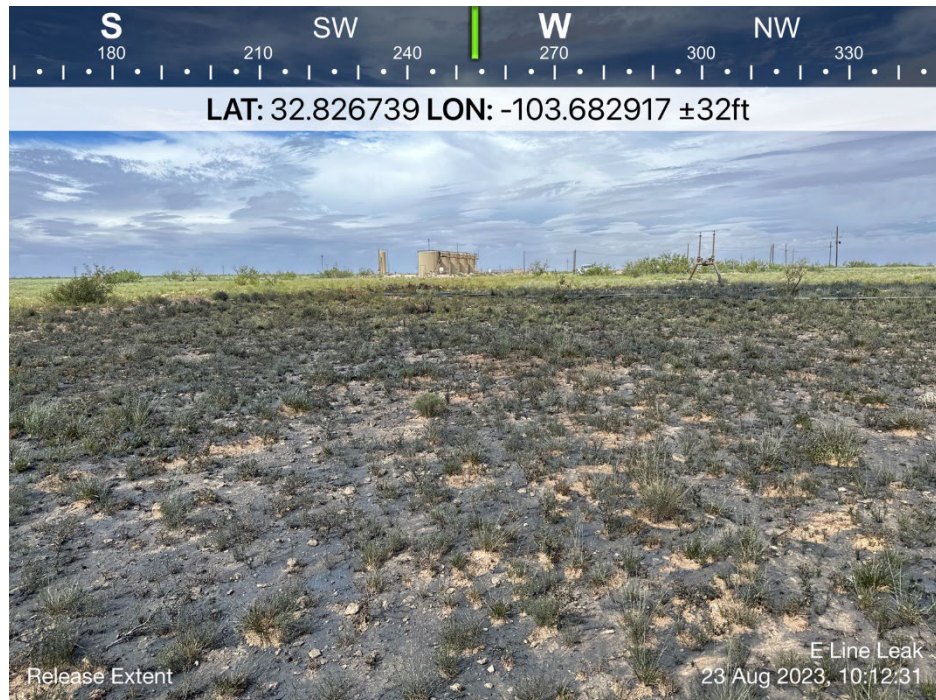
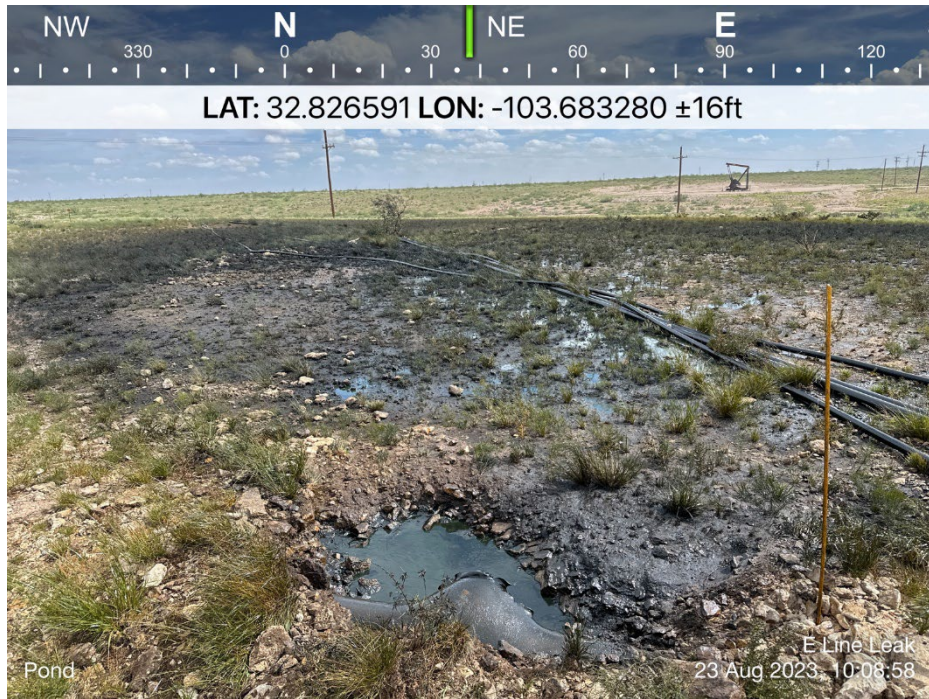
Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2023-10-31 12:43:46 EDT
0.31 0.27 nadww02



Appendix E – Photographic Log

DCP Operating Company, LP

<<<<08.23.23>>>>



DCP Operating Company, LP

<<<<10.29.24>>>>



DCP Operating Company, LP

<<<<10.31.24>>>>



Appendix F – Certified Laboratory Analytical Reports



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

November 05, 2024

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: 6242_E-LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 11/01/24 8:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

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

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

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

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

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

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

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V - 1 @ 0-0.5'	H246668-01	Soil	29-Oct-24 11:05	01-Nov-24 08:08
V - 1 @ 2'	H246668-02	Soil	29-Oct-24 11:28	01-Nov-24 08:08
V - 2 @ 0-0.5'	H246668-03	Soil	29-Oct-24 11:50	01-Nov-24 08:08
V - 2 @ 2'	H246668-04	Soil	29-Oct-24 11:56	01-Nov-24 08:08
V - 3 @ 0-0.5'	H246668-05	Soil	29-Oct-24 12:03	01-Nov-24 08:08
V - 3 @ 2'	H246668-06	Soil	29-Oct-24 12:15	01-Nov-24 08:08
V - 3 @ 6'	H246668-09	Soil	29-Oct-24 13:59	01-Nov-24 08:08
V - 4 @ 0-0.5'	H246668-10	Soil	30-Oct-24 09:31	01-Nov-24 08:08
V - 4 @ 2'	H246668-11	Soil	30-Oct-24 09:41	01-Nov-24 08:08
V - 4 @ 6'	H246668-13	Soil	30-Oct-24 10:03	01-Nov-24 08:08
V - 5 @ 0-0.5'	H246668-14	Soil	30-Oct-24 10:25	01-Nov-24 08:08
V - 5 @ 2'	H246668-15	Soil	30-Oct-24 10:39	01-Nov-24 08:08
V - 6 @ 0-0.5'	H246668-16	Soil	30-Oct-24 11:02	01-Nov-24 08:08
V - 6 @ 2'	H246668-17	Soil	30-Oct-24 11:16	01-Nov-24 08:08
V - 7 @ 0-0.5'	H246668-18	Soil	30-Oct-24 13:14	01-Nov-24 08:08
V - 7 @ 2'	H246668-19	Soil	30-Oct-24 13:26	01-Nov-24 08:08
V - 7 @ 4'	H246668-20	Soil	30-Oct-24 13:50	01-Nov-24 08:08
V - 8 @ 0-0.5'	H246668-21	Soil	31-Oct-24 09:03	01-Nov-24 08:08
V - 8 @ 4'	H246668-23	Soil	31-Oct-24 09:16	01-Nov-24 08:08
V - 8 @ 8'	H246668-25	Soil	31-Oct-24 09:49	01-Nov-24 08:08
V - 9 @ 0-0.5'	H246668-26	Soil	31-Oct-24 10:09	01-Nov-24 08:08
V - 9 @ 2'	H246668-27	Soil	31-Oct-24 10:10	01-Nov-24 08:08
V - 9 @ 4'	H246668-28	Soil	31-Oct-24 10:32	01-Nov-24 08:08
V - 10 @ 0-0.5'	H246668-29	Soil	31-Oct-24 10:54	01-Nov-24 08:08
V - 10 @ 4'	H246668-31	Soil	31-Oct-24 11:08	01-Nov-24 08:08
V - 10 @ 8'	H246668-33	Soil	31-Oct-24 11:30	01-Nov-24 08:08
V - 11 @ 0-0.5'	H246668-34	Soil	31-Oct-24 11:48	01-Nov-24 08:08

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 11 @ 2'	H246668-35	Soil	31-Oct-24 12:00	01-Nov-24 08:08
V - 12 @ 0-0.5'	H246668-36	Soil	31-Oct-24 13:04	01-Nov-24 08:08
V - 12 @ 2'	H246668-37	Soil	31-Oct-24 13:20	01-Nov-24 08:08
V - 13 @ 0-0.5'	H246668-38	Soil	31-Oct-24 13:30	01-Nov-24 08:08
V - 13 @ 2'	H246668-39	Soil	31-Oct-24 13:45	01-Nov-24 08:08
V - 14 @ 0-0.5'	H246668-40	Soil	31-Oct-24 13:55	01-Nov-24 08:08
V - 14 @ 2'	H246668-41	Soil	31-Oct-24 14:08	01-Nov-24 08:08

11/05/24 - Client added analysis to samples 05, 10, 18, 21, 26 and 29 (see COC). This is the revised report and will replace the one sent on 11/04/24.

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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 1 @ 0-0.5'**H246668-01 (Soil)**

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

Chloride	6240		16.0	mg/kg	4	4110307	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134 4103036 JH 01-Nov-24 8021B

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

GRO C6-C10*	<50.0		50.0	mg/kg	5	4103137	MS	01-Nov-24	8015B	
DRO >C10-C28*	17800		50.0	mg/kg	5	4103137	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	4840		50.0	mg/kg	5	4103137	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane 128 % 48.2-134 4103137 MS 01-Nov-24 8015B

Surrogate: 1-Chlorooctadecane 494 % 49.1-148 4103137 MS 01-Nov-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 1 @ 2'
H246668-02 (Soil)

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

Chloride	656		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4103137	MS	01-Nov-24	8015B	
DRO >C10-C28*	955		10.0	mg/kg	1	4103137	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	287		10.0	mg/kg	1	4103137	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			118 %		48.2-134	4103137	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			141 %		49.1-148	4103137	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 2 @ 0-0.5'**H246668-03 (Soil)**

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

Chloride	1390		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B
Toluene*	<0.050	0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B
Total BTEX	<0.300	0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B

Surrogate: 4-Bromofluorobenzene (PID)	93.2 %	71.5-134	4103036	JH	01-Nov-24	8021B
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0	50.0	mg/kg	5	4103137	MS	01-Nov-24	8015B
DRO >C10-C28*	9640	50.0	mg/kg	5	4103137	MS	01-Nov-24	8015B
EXT DRO >C28-C36	2500	50.0	mg/kg	5	4103137	MS	01-Nov-24	8015B

Surrogate: 1-Chlorooctane	127 %	48.2-134	4103137	MS	01-Nov-24	8015B
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Surrogate: 1-Chlorooctadecane	270 %	49.1-148	4103137	MS	01-Nov-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 2 @ 2'
H246668-04 (Soil)

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

Chloride	560		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.6 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	1110		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	380		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			72.0 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			72.4 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 3 @ 0-0.5'**H246668-05 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	4110521	CT	05-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110423	JH	04-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4110423	JH	04-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
DRO >C10-C28*	548		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
EXT DRO >C28-C36	299		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	

Surrogate: 1-Chlorooctane			111 %	48.2-134		4110436	MS	04-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	49.1-148		4110436	MS	04-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 3 @ 2'
H246668-06 (Soil)

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

Chloride	144		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.8 %	71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane	83.2 %	48.2-134	4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane	79.8 %	49.1-148	4110128	MS	01-Nov-24	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 3 @ 6'
H246668-09 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.2 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			73.3 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			71.4 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 4 @ 0-0.5'**H246668-10 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4110521	CT	05-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110423	JH	04-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 4110423 JH 04-Nov-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
DRO >C10-C28*	109		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
EXT DRO >C28-C36	67.9		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	

Surrogate: 1-Chlorooctane 103 % 48.2-134 4110436 MS 04-Nov-24 8015B

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148 4110436 MS 04-Nov-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 4 @ 2'
H246668-11 (Soil)

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

Chloride	112		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.9 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.4 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			68.4 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 4 @ 6'
H246668-13 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.3 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			82.5 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.1 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 5 @ 0-0.5'**H246668-14 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.2 %	71.5-134		4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			76.0 %	48.2-134		4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			73.2 %	49.1-148		4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 5 @ 2'
H246668-15 (Soil)

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

Chloride	160		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.4 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.3 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			74.5 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 6 @ 0-0.5'**H246668-16 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4103036	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4103036	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.5 %		71.5-134	4103036	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			87.4 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			87.2 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 6 @ 2'
H246668-17 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.9 %	48.2-134		4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.9 %	49.1-148		4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 7 @ 0-0.5'**H246668-18 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	4110521	CT	05-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4110423	JH	04-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	71.5-134	4110423	JH	04-Nov-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B

Surrogate: 1-Chlorooctane	94.7 %	48.2-134	4110436	MS	04-Nov-24	8015B
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Surrogate: 1-Chlorooctadecane	83.6 %	49.1-148	4110436	MS	04-Nov-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 7 @ 2'
H246668-19 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.0 %	48.2-134		4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.8 %	49.1-148		4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 7 @ 4'
H246668-20 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		71.5-134	4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			82.4 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			82.2 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 8 @ 0-0.5'**H246668-21 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4110521	CT	05-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4110423	JH	04-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4110423	JH	04-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	71.5-134	4110423	JH	04-Nov-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B

Surrogate: 1-Chlorooctane	106 %	48.2-134	4110436	MS	04-Nov-24	8015B
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Surrogate: 1-Chlorooctadecane	92.0 %	49.1-148	4110436	MS	04-Nov-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 8 @ 4'
H246668-23 (Soil)

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

Chloride	208		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		104 %		71.5-134	4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>		75.1 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		73.3 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 8 @ 8'
H246668-25 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	71.5-134	4110119	JH	01-Nov-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B

Surrogate: 1-Chlorooctane	81.8 %	48.2-134	4110128	MS	01-Nov-24	8015B
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Surrogate: 1-Chlorooctadecane	81.5 %	49.1-148	4110128	MS	01-Nov-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 9 @ 0-0.5'**H246668-26 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	4110520	AC	05-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4103136	JH	05-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4103136	JH	05-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4103136	JH	05-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4103136	JH	05-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4103136	JH	05-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	71.5-134	4103136	JH	05-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	

Surrogate: 1-Chlorooctane	106 %	48.2-134	4110436	MS	04-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane	91.8 %	49.1-148	4110436	MS	04-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 9 @ 2'
H246668-27 (Soil)

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

Chloride	192		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.7 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.2 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 9 @ 4'
H246668-28 (Soil)

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

Chloride	160		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		71.5-134	4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.3 %		48.2-134	4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.9 %		49.1-148	4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 10 @ 0-0.5'**H246668-29 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4110520	AC	05-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110428	JH	05-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110428	JH	05-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110428	JH	05-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110428	JH	05-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110428	JH	05-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.7 %		71.5-134	4110428	JH	05-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110436	MS	04-Nov-24	8015B	

Surrogate: 1-Chlorooctane			89.6 %		48.2-134	4110436	MS	04-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			75.9 %		49.1-148	4110436	MS	04-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 10 @ 4'
H246668-31 (Soil)

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

Chloride	112		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.6 %	48.2-134		4110128	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.2 %	49.1-148		4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 10 @ 8'
H246668-33 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110119	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110119	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4110119	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			84.8 %	48.2-134		4110128	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			80.5 %	49.1-148		4110128	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 11 @ 0-0.5'**H246668-34 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	4110167	HM	01-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %		71.5-134	4110127	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	

Surrogate: 1-Chlorooctane			83.4 %		48.2-134	4110128	MS	02-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			78.4 %		49.1-148	4110128	MS	02-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 11 @ 2'
H246668-35 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	71.5-134		4110127	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	

Surrogate: 1-Chlorooctane			87.6 %	48.2-134		4110128	MS	02-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			86.1 %	49.1-148		4110128	MS	02-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 12 @ 0-0.5'**H246668-36 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134 4110127 JH 01-Nov-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110128	MS	02-Nov-24	8015B	

Surrogate: 1-Chlorooctane 84.5 % 48.2-134 4110128 MS 02-Nov-24 8015B

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148 4110128 MS 02-Nov-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 12 @ 2'
H246668-37 (Soil)

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

Chloride	192		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		71.5-134	4110127	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.5 %		48.2-134	4110129	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.4 %		49.1-148	4110129	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 13 @ 0-0.5'**H246668-38 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134 4110127 JH 01-Nov-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110129	MS	02-Nov-24	8015B	
DRO >C10-C28*	544		10.0	mg/kg	1	4110129	MS	02-Nov-24	8015B	
EXT DRO >C28-C36	426		10.0	mg/kg	1	4110129	MS	02-Nov-24	8015B	

Surrogate: 1-Chlorooctane 96.8 % 48.2-134 4110129 MS 02-Nov-24 8015B

Surrogate: 1-Chlorooctadecane 102 % 49.1-148 4110129 MS 02-Nov-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 13 @ 2'
H246668-39 (Soil)

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

Chloride	256		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		71.5-134	4110127	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.2 %		48.2-134	4110129	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.0 %		49.1-148	4110129	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 14 @ 0-0.5'**H246668-40 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.1 %	71.5-134		4110127	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	

Surrogate: 1-Chlorooctane			97.5 %	48.2-134		4110129	MS	01-Nov-24	8015B	
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Surrogate: 1-Chlorooctadecane			98.3 %	49.1-148		4110129	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

V - 14 @ 2'
H246668-41 (Soil)

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

Chloride	144		16.0	mg/kg	4	4110302	AC	03-Nov-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4110127	JH	01-Nov-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4110127	JH	01-Nov-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		99.0 %		71.5-134	4110127	JH	01-Nov-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4110129	MS	01-Nov-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>		90.3 %		48.2-134	4110129	MS	01-Nov-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		89.1 %		49.1-148	4110129	MS	01-Nov-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110167 - 1:4 DI Water**Blank (4110167-BLK1)**

Prepared & Analyzed: 01-Nov-24

Chloride	ND	16.0	mg/kg
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LCS (4110167-BS1)

Prepared & Analyzed: 01-Nov-24

Chloride	448	16.0	mg/kg	400	112	80-120
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LCS Dup (4110167-BSD1)

Prepared & Analyzed: 01-Nov-24

Chloride	448	16.0	mg/kg	400	112	80-120	0.00	20
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Batch 4110302 - 1:4 DI Water**Blank (4110302-BLK1)**

Prepared & Analyzed: 03-Nov-24

Chloride	ND	16.0	mg/kg
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LCS (4110302-BS1)

Prepared & Analyzed: 03-Nov-24

Chloride	448	16.0	mg/kg	400	112	80-120
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LCS Dup (4110302-BSD1)

Prepared & Analyzed: 03-Nov-24

Chloride	448	16.0	mg/kg	400	112	80-120	0.00	20
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Batch 4110307 - 1:4 DI Water**Blank (4110307-BLK1)**

Prepared & Analyzed: 03-Nov-24

Chloride	ND	16.0	mg/kg
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LCS (4110307-BS1)

Prepared & Analyzed: 03-Nov-24

Chloride	448	16.0	mg/kg	400	112	80-120
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110307 - 1:4 DI Water**LCS Dup (4110307-BSD1)**

Prepared & Analyzed: 03-Nov-24

Chloride	448	16.0	mg/kg	400	112	80-120	0.00	20
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Batch 4110520 - 1:4 DI Water**Blank (4110520-BLK1)**

Prepared & Analyzed: 05-Nov-24

Chloride	ND	16.0	mg/kg					
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LCS (4110520-BS1)

Prepared & Analyzed: 05-Nov-24

Chloride	416	16.0	mg/kg	400	104	80-120		
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LCS Dup (4110520-BSD1)

Prepared & Analyzed: 05-Nov-24

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Batch 4110521 - 1:4 DI Water**Blank (4110521-BLK1)**

Prepared & Analyzed: 05-Nov-24

Chloride	ND	16.0	mg/kg					
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LCS (4110521-BS1)

Prepared & Analyzed: 05-Nov-24

Chloride	416	16.0	mg/kg	400	104	80-120		
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LCS Dup (4110521-BSD1)

Prepared & Analyzed: 05-Nov-24

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4103036 - Volatiles**Blank (4103036-BLK1)**

Prepared: 30-Oct-24 Analyzed: 01-Nov-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.3	71.5-134			

LCS (4103036-BS1)

Prepared: 30-Oct-24 Analyzed: 01-Nov-24

Benzene	2.11	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.03	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89-129			
o-Xylene	1.98	0.050	mg/kg	2.00		99.1	86.1-125			
Total Xylenes	6.06	0.150	mg/kg	6.00		101	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.2	71.5-134			

LCS Dup (4103036-BSD1)

Prepared: 30-Oct-24 Analyzed: 01-Nov-24

Benzene	1.92	0.050	mg/kg	2.00		96.1	82.8-130	9.14	15.8	
Toluene	1.87	0.050	mg/kg	2.00		93.5	86-128	8.09	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		94.8	85.9-128	7.23	16	
m,p-Xylene	3.77	0.100	mg/kg	4.00		94.3	89-129	7.79	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00		92.2	86.1-125	7.26	16.7	
Total Xylenes	5.62	0.150	mg/kg	6.00		93.6	88.2-128	7.61	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	71.5-134			

Batch 4103136 - Volatiles**Blank (4103136-BLK1)**

Prepared: 31-Oct-24 Analyzed: 04-Nov-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4103136 - Volatiles**Blank (4103136-BLK1)**

Prepared: 31-Oct-24 Analyzed: 04-Nov-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500		106	71.5-134			

LCS (4103136-BS1)

Prepared: 31-Oct-24 Analyzed: 04-Nov-24

Benzene	2.01	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		100	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	6.38	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	71.5-134			

LCS Dup (4103136-BS1)

Prepared: 31-Oct-24 Analyzed: 04-Nov-24

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130	1.12	15.8	
Toluene	2.09	0.050	mg/kg	2.00		105	86-128	4.21	15.9	
Ethylbenzene	2.25	0.050	mg/kg	2.00		112	85.9-128	6.47	16	
m,p-Xylene	4.55	0.100	mg/kg	4.00		114	89-129	6.46	16.2	
o-Xylene	2.25	0.050	mg/kg	2.00		113	86.1-125	6.26	16.7	
Total Xylenes	6.80	0.150	mg/kg	6.00		113	88.2-128	6.39	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0540		mg/kg	0.0500		108	71.5-134			

Batch 4110119 - Volatiles**Blank (4110119-BLK1)**

Prepared & Analyzed: 01-Nov-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110119 - Volatiles**LCS (4110119-BS1)**

Prepared & Analyzed: 01-Nov-24

Benzene	2.15	0.050	mg/kg	2.00		107	82.8-130			
Toluene	2.21	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.51	0.100	mg/kg	4.00		113	89-129			
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125			
Total Xylenes	6.67	0.150	mg/kg	6.00		111	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID) 0.0506 mg/kg 0.0500 101 71.5-134

LCS Dup (4110119-BSD1)

Prepared & Analyzed: 01-Nov-24

Benzene	2.07	0.050	mg/kg	2.00		104	82.8-130	3.79	15.8	
Toluene	2.12	0.050	mg/kg	2.00		106	86-128	3.80	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	3.62	16	
m,p-Xylene	4.37	0.100	mg/kg	4.00		109	89-129	3.23	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	3.90	16.7	
Total Xylenes	6.45	0.150	mg/kg	6.00		107	88.2-128	3.45	16.3	

Surrogate: 4-Bromofluorobenzene (PID) 0.0513 mg/kg 0.0500 103 71.5-134

Batch 4110127 - Volatiles**Blank (4110127-BLK1)**

Prepared & Analyzed: 01-Nov-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID) ND mg/kg 0.0500 98.6 71.5-134

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110127 - Volatiles**LCS (4110127-BS1)**

Prepared & Analyzed: 01-Nov-24

Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130			
Toluene	1.99	0.050	mg/kg	2.00		99.5	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.7	89-129			
o-Xylene	1.92	0.050	mg/kg	2.00		96.2	86.1-125			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)

0.0491

mg/kg

0.0500

98.3

71.5-134

LCS Dup (4110127-BS1)

Prepared & Analyzed: 01-Nov-24

Benzene	1.97	0.050	mg/kg	2.00		98.4	82.8-130	4.35	15.8	
Toluene	1.91	0.050	mg/kg	2.00		95.3	86-128	4.35	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.1	85.9-128	4.19	16	
m,p-Xylene	3.78	0.100	mg/kg	4.00		94.6	89-129	4.27	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00		92.1	86.1-125	4.27	16.7	
Total Xylenes	5.63	0.150	mg/kg	6.00		93.8	88.2-128	4.27	16.3	

Surrogate: 4-Bromofluorobenzene (PID)

0.0487

mg/kg

0.0500

97.3

71.5-134

Batch 4110423 - Volatiles**Blank (4110423-BLK1)**

Prepared & Analyzed: 04-Nov-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID)

0.0522

mg/kg

0.0500

104

71.5-134

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110423 - Volatiles**LCS (4110423-BS1)**

Prepared & Analyzed: 04-Nov-24

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.09	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.22	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.05	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.28	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	71.5-134			

LCS Dup (4110423-BSD1)

Prepared & Analyzed: 04-Nov-24

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130	0.305	15.8	
Toluene	2.09	0.050	mg/kg	2.00		105	86-128	0.0235	15.9	
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	85.9-128	0.201	16	
m,p-Xylene	4.23	0.100	mg/kg	4.00		106	89-129	0.164	16.2	
o-Xylene	2.05	0.050	mg/kg	2.00		102	86.1-125	0.129	16.7	
Total Xylenes	6.28	0.150	mg/kg	6.00		105	88.2-128	0.0682	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	71.5-134			

Batch 4110428 - Volatiles**Blank (4110428-BLK1)**

Prepared: 04-Nov-24 Analyzed: 05-Nov-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.7	71.5-134			

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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110428 - Volatiles**LCS (4110428-BS1)**

Prepared: 04-Nov-24 Analyzed: 05-Nov-24

Benzene	1.86	0.050	mg/kg	2.00		93.1	82.8-130		
Toluene	1.79	0.050	mg/kg	2.00		89.6	86-128		
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.7	85.9-128		
m,p-Xylene	3.61	0.100	mg/kg	4.00		90.2	89-129		
o-Xylene	1.78	0.050	mg/kg	2.00		89.1	86.1-125		
Total Xylenes	5.39	0.150	mg/kg	6.00		89.8	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID)

0.0499

mg/kg

0.0500

99.8

71.5-134

LCS Dup (4110428-BSD1)

Prepared: 04-Nov-24 Analyzed: 05-Nov-24

Benzene	2.08	0.050	mg/kg	2.00		104	82.8-130	11.1	15.8
Toluene	1.99	0.050	mg/kg	2.00		99.3	86-128	10.2	15.9
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128	8.34	16
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.3	89-129	8.61	16.2
o-Xylene	1.92	0.050	mg/kg	2.00		96.2	86.1-125	7.60	16.7
Total Xylenes	5.86	0.150	mg/kg	6.00		97.6	88.2-128	8.28	16.3

Surrogate: 4-Bromofluorobenzene (PID)

0.0492

mg/kg

0.0500

98.5

71.5-134

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4103137 - General Prep - Organics**Blank (4103137-BLK1)**

Prepared: 31-Oct-24 Analyzed: 01-Nov-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	53.7		mg/kg	50.0		107	49.1-148			

LCS (4103137-BS1)

Prepared: 31-Oct-24 Analyzed: 01-Nov-24

GRO C6-C10	187	10.0	mg/kg	200		93.5	81.5-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.3	77.7-122			
Total TPH C6-C28	370	10.0	mg/kg	400		92.4	80.9-121			
Surrogate: 1-Chlorooctane	66.8		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	61.0		mg/kg	50.0		122	49.1-148			

LCS Dup (4103137-BSD1)

Prepared: 31-Oct-24 Analyzed: 01-Nov-24

GRO C6-C10	192	10.0	mg/kg	200		96.1	81.5-123	2.74	13	
DRO >C10-C28	185	10.0	mg/kg	200		92.5	77.7-122	1.33	15.6	
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	80.9-121	2.05	18.5	
Surrogate: 1-Chlorooctane	68.0		mg/kg	50.0		136	48.2-134			S-05
Surrogate: 1-Chlorooctadecane	62.4		mg/kg	50.0		125	49.1-148			

Batch 4110128 - General Prep - Organics**Blank (4110128-BLK1)**

Prepared & Analyzed: 01-Nov-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110128 - General Prep - Organics**LCS (4110128-BS1)**

Prepared & Analyzed: 01-Nov-24

GRO C6-C10	191	10.0	mg/kg	200		95.6	81.5-123		
DRO >C10-C28	168	10.0	mg/kg	200		83.8	77.7-122		
Total TPH C6-C28	359	10.0	mg/kg	400		89.7	80.9-121		
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	48.2-134		
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	49.1-148		

LCS Dup (4110128-BS1)

Prepared & Analyzed: 01-Nov-24

GRO C6-C10	196	10.0	mg/kg	200		98.1	81.5-123	2.61	13
DRO >C10-C28	170	10.0	mg/kg	200		85.2	77.7-122	1.59	15.6
Total TPH C6-C28	366	10.0	mg/kg	400		91.6	80.9-121	2.14	18.5
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		116	48.2-134		
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	49.1-148		

Batch 4110129 - General Prep - Organics**Blank (4110129-BLK1)**

Prepared & Analyzed: 01-Nov-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0		118	48.2-134		
Surrogate: 1-Chlorooctadecane	63.2		mg/kg	50.0		126	49.1-148		

LCS (4110129-BS1)

Prepared & Analyzed: 01-Nov-24

GRO C6-C10	193	10.0	mg/kg	200		96.4	81.5-123		
DRO >C10-C28	177	10.0	mg/kg	200		88.4	77.7-122		
Total TPH C6-C28	370	10.0	mg/kg	400		92.4	80.9-121		
Surrogate: 1-Chlorooctane	67.3		mg/kg	50.0		135	48.2-134		S-05
Surrogate: 1-Chlorooctadecane	69.4		mg/kg	50.0		139	49.1-148		

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Analytical Results For:

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

Project: 6242_E-LINE LEAK
Project Number: 6242
Project Manager: KYLE NORMAN
Fax To:

Reported:
05-Nov-24 16:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4110129 - General Prep - Organics**LCS Dup (4110129-BSD1)**

Prepared & Analyzed: 01-Nov-24

GRO C6-C10	194	10.0	mg/kg	200		97.0	81.5-123	0.626	13	
DRO >C10-C28	178	10.0	mg/kg	200		88.8	77.7-122	0.447	15.6	
Total TPH C6-C28	372	10.0	mg/kg	400		92.9	80.9-121	0.540	18.5	
Surrogate: 1-Chlorooctane	67.7		mg/kg	50.0		135	48.2-134			S-05
Surrogate: 1-Chlorooctadecane	71.1		mg/kg	50.0		142	49.1-148			

Batch 4110436 - General Prep - Organics**Blank (4110436-BLK1)**

Prepared & Analyzed: 04-Nov-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	48.2-134			
Surrogate: 1-Chlorooctadecane	48.2		mg/kg	50.0		96.3	49.1-148			

LCS (4110436-BS1)

Prepared: 04-Nov-24 Analyzed: 05-Nov-24

GRO C6-C10	187	10.0	mg/kg	200		93.5	81.5-123			
DRO >C10-C28	176	10.0	mg/kg	200		88.1	77.7-122			
Total TPH C6-C28	363	10.0	mg/kg	400		90.8	80.9-121			
Surrogate: 1-Chlorooctane	63.9		mg/kg	50.0		128	48.2-134			
Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0		112	49.1-148			

LCS Dup (4110436-BSD1)

Prepared & Analyzed: 04-Nov-24

GRO C6-C10	236	10.0	mg/kg	200		118	81.5-123	23.1	13	QR-03
DRO >C10-C28	230	10.0	mg/kg	200		115	77.7-122	26.5	15.6	QR-03
Total TPH C6-C28	466	10.0	mg/kg	400		116	80.9-121	24.8	18.5	QR-03
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	48.2-134			
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.9	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager


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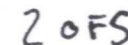
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences Project Manager: Kyle Norman Address: 2620 W. Marland Blvd. City: Hobbs State: NM Zip: 88240 Phone #: 575-318-5017 Fax #: Project #: 6242 Project Owner: DCP Operating Company Project Name: 6242_E-Line Leak Project Location: Sampler Name: Brian Bastos										BILL TO P.O. #: Company: Tasman Geo Attn: Kyle Norman Address: 2620 W. Marland City: Hobbs State: NM Zip: 88240 Phone #: 575-318-5017 Fax #:			ANALYSIS REQUEST TPH 8015 Ext BTEX Chlorides Hold 24-hr Rush <i>Hold Remove & Rush *</i> 10F5																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME																			
1	V-1 @ 0-0.5'	G	1			X				X			10/29/24	1105	X	X	X		X														
2	V-1 @ 2'	G	1			X				X			10/29/24	1128	X	X	X		X														
3	V-2 @ 0-0.5'	G	1			X				X			10/29/24	1150	X	X	X		X														
4	V-2 @ 2'	G	1			X				X			10/29/24	1156	X	X	X		X														
5	V-3 @ 0-0.5'	G	1			X				X			10/29/24	1203				X															
6	V-3 @ 2'	G	1			X				X			10/29/24	1215	X	X	X		X														
7	V-3 @ 3'	G	1			X				X			10/29/24	1226				X															
8	V-3 @ 4'	G	1			X				X			10/29/24	1336				X															
9	V-3 @ 6'	G	1			X				X			10/29/24	1359	X	X	X		X														
10	V-4 @ 0-0.5'	G	1			X				X			10/30/24	0931				X															

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Relinquished By: Date: 11-1-24 Time: 0808	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS: email results: NMDData@tasman-geo.com Janice.L.Hyman@p66.com; Albert.L.Hyman@p66.com *Customer requested hold Removed & Rush 11/4/24
Relinquished By: Date: Time:	Received By: Date: Time:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.9:10-0.4:1 4.3: #140	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials)

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



	* Hold removed + Rns	24 hrs
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Relinquished By: <i>[Signature]</i>	Date: <i>11-1-24</i> Time: <i>0808</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS: email results: NMDData@tasman-geo.com Janice.L.Hyman@p66.com; Albert.L.Hyman@p66.com
Relinquished By:	Date: Time:	Received By:	*Cust. requested hold remove A Rush! to 11/4/24
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4.9c) C-O-L-C</i> <i>4.3c #140</i>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No CHECKED BY: (Initials) <i>SP</i>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5 of 5

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

November 11, 2024

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: E LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 11/08/24 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/08/2024
 Reported: 11/11/2024
 Project Name: E LINE LEAK
 Project Number: 6242
 Project Location: NONE GIVEN

Sampling Date: 11/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 1 @ 6' (H246839-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.10	105	2.00	2.92	
Toluene*	<0.050	0.050	11/09/2024	ND	1.99	99.7	2.00	2.93	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.98	99.2	2.00	2.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.87	97.9	6.00	2.85	
Total BTEx	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/11/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2024	ND	204	102	200	8.36	
DRO >C10-C28*	<10.0	10.0	11/09/2024	ND	194	97.1	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	11/09/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/08/2024
 Reported: 11/11/2024
 Project Name: E LINE LEAK
 Project Number: 6242
 Project Location: NONE GIVEN

Sampling Date: 11/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 13A @ 4' (H246839-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	ND	2.10	105	2.00	2.92		
Toluene*	<0.050	0.050	11/09/2024	ND	1.99	99.7	2.00	2.93		
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.98	99.2	2.00	2.64		
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.87	97.9	6.00	2.85		
Total BTEX	<0.300	0.300	11/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/11/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2024	ND	204	102	200	8.36	
DRO >C10-C28*	<10.0	10.0	11/09/2024	ND	194	97.1	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	11/09/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/08/2024
 Reported: 11/11/2024
 Project Name: E LINE LEAK
 Project Number: 6242
 Project Location: NONE GIVEN

Sampling Date: 11/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 13A @ 8' (H246839-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	ND	2.10	105	2.00	2.92		
Toluene*	<0.050	0.050	11/09/2024	ND	1.99	99.7	2.00	2.93		
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.98	99.2	2.00	2.64		
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.87	97.9	6.00	2.85		
Total BTEx	<0.300	0.300	11/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/11/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	195	97.3	200	0.668	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	187	93.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/08/2024
 Reported: 11/11/2024
 Project Name: E LINE LEAK
 Project Number: 6242
 Project Location: NONE GIVEN

Sampling Date: 11/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V - 2 @ 6' (H246839-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.10	105	2.00	2.92	
Toluene*	<0.050	0.050	11/09/2024	ND	1.99	99.7	2.00	2.93	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.98	99.2	2.00	2.64	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.87	97.9	6.00	2.85	
Total BTEX	<0.300	0.300	11/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	195	97.3	200	0.668	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	187	93.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager







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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 11-8-24 Time: 1340	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: email results: LFlores@tasman-geo.com, KNorman@tasman-geo.com; BDennis@tasman-geo.com; CFlores@tasman-geo.com; NMDData@tasman-geo.com; other@tasman-geo.com ; janice  Stephen.weathers@p66.com
Relinquished By:		Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.4: C-0.0: 1.8: #140		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	

† 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: Tasman Geosciences										BILL TO		ANALYSIS REQUEST									
Project Manager: Kyle Norman										P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>TPH TX1005</div> <div>Complete Cations/Anions</div> <div>TDS</div> <div>HOLD</div> <div>48 Hour RUSH</div> <div>24 Hour RUSH</div> </div>									
Address: 2620 W. Marland Blvd.										Company: Tasman Geo											
City: Hobbs State: NM Zip: 88240										Attn: Kyle Norman											
Phone #: 575-318-5017 Fax #:										Address: 2620 W. Marland											
Project #: 6242 Project Owner: DCP Midstream L.P.										City: Hobbs											
Project Name: E line leak										State: NM Zip: 88240											
Project Location:										Phone #: 575-318-5017											
Sampler Name: Chris Flores										Fax #:											
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(GIRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME								
H246839	V-2 • 4'	C1			X				X			4/8/04	9:31								
9	V-2 • 6'	C1			X				X			4/8/04	9:51	X X X							

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Relinquished By:	Date: 11-8-24	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 1340	Signature: S. Rodriguez	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: LFlores@tasman-geo.com, KNorman@tasman-geo.com; BDennis@tasman-geo.com; CFlores@tasman-geo.com; NMData@tasman-geo.com; Steph.W@tasman-geo.com	
Delivered By: (Circle One)	2.4jc-o-00	Sample Condition Cool	CHECKED BY:	
Sampler - UPS - Bus - Other	1.8c #140	Intact	(Initials)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Signature: S. Rodriguez	

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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

Action 426562

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2323641677
Incident Name	NAPP2323641677 E LINE LEAK @ 0
Incident Type	Blow Out
Incident Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.

Site Name	E LINE LEAK
Date Release Discovered	08/23/2023
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: 17 BBL Recovered: 0 BBL Lost: 17 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.

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QUESTIONS, Page 2

Action 426562

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety 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	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC 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 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Stephen Weathers Title: Principal Environmental Specialist DCP Email: SWWeathers@dcpmidstream.com Date: 02/03/2025
--	--

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QUESTIONS, Page 3

Action 426562

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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	Greater than 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 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
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, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	22640
GRO+DRO (EPA SW-846 Method 8015M)	17800
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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.</i>	
On what estimated date will the remediation commence	02/17/2025
On what date will (or did) the final sampling or liner inspection occur	02/10/2025
On what date will (or was) the remediation complete(d)	02/21/2025
What is the estimated surface area (in square feet) that will be reclaimed	25000
What is the estimated volume (in cubic yards) that will be reclaimed	1800
What is the estimated surface area (in square feet) that will be remediated	13000
What is the estimated volume (in cubic yards) that will be remediated	1800
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 426562

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stephen Weathers Title: Principal Environmental Specialist DCP Email: SWWeathers@dcpmidstream.com Date: 02/03/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 426562

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	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 submission	No

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QUESTIONS, Page 6

Action 426562

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	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 remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 426562

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 426562
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following conditions; 1. Alternative sampling plan request not to exceed 400 square feet (ft.2) for each five (5) point composite (5pc) from the excavation floor per 19.15.29.12D (1b) NMAC is approved. Sidewall confirmation sample(s) will abide at 200 ft.2 for each 5pc per 19.15.29.12D (1c) NMAC. All other provisions addressed in 19.15.29.12D NMAC remain in effect. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, DCP must collect a minimum of one (1) 5pc from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 3. DCP has 90-days (May 19, 2025) to submit to OCD its appropriate or final remediation closure report.	2/18/2025