

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	nAPP2213935065
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.712359 Longitude -103.827850
(NAD 83 in decimal degrees to 5 decimal places)

Site Name M-31 Line	Site Type Pipeline
Date Release Discovered 05/16/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	25	18S	31E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 25	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 39	Volume Recovered (Mcf) 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Line was pinched causing it to rupture.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release was 25 barrels.
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Kyle Norman via phone call to Mike Bratcher on 05/17/2022.

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 not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Norman Title: Regional Project Manager
 Signature:  Date: _____
 email: knorman@tasman-geo.com Telephone: 575-318-5017

OCD Only
 Received by: _____ Date: _____

Incident ID	nAPP2213935065
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	~260 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

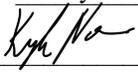
State of New Mexico
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Printed Name: Kyle Norman Title: Regional Project Manager

Signature:  Date: _____

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

OCD Only

Received by: Jocelyn Harimon Date: 02/20/2023



FAX To: Regional Environmental Department 111-111-1111

SERC/LEPC Notification Form

Facility Name:	SENM East PL/Gathering	Date:	5/17/2022 3:29 PM	County:	LEA						
Location:	Event GPS Coordinates: 32.712436, 103.827940 Driving Directions:	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>Initial Report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Updated Report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Final Report</td> </tr> </table>				<input checked="" type="checkbox"/>	Initial Report	<input type="checkbox"/>	Updated Report	<input type="checkbox"/>	Final Report
<input checked="" type="checkbox"/>	Initial Report										
<input type="checkbox"/>	Updated Report										
<input type="checkbox"/>	Final Report										

Type of Incident:	Malfunction	Release Occurred To:	Air	Release Type:	Vented
Started On:	5/16/2022 4:00 PM	Ended On:	5/16/2022 7:00 PM	Discovered On:	5/16/2022 5:00 PM

Event Duration:
180 Minutes

Material Released:

Material Composition:
Pentane 0.3936%, Ethane 12.6371%, Methane 72.5424%, Heptane 0.2323%, Water 0.3825%, Propane 6.6548%, Carbon Dioxide 0.1864%, n-Octane 0.0739%, Isopentane 0.4117%, Hexane 0.2356%, Nitrogen 3.468%, n-Nonane 0.0374%, Isobutane 0.7868%, Butane 1.9575%,

Calculations:
Compound Calculation Used to Obtain Released Amount
 Pentane: 39494.3 {scf/event} * 0.003936 {mole fraction} * 72.1488 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Heptane: 39494.3 {scf/event} * 0.002323 {mole fraction} * 100.2019 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Propane: 39494.3 {scf/event} * 0.066548 {mole fraction} * 44.0956 {lb/lb-mole} / 379.3 {scf/lb-mole}
 n-Octane: 39494.3 {scf/event} * 0.000739 {mole fraction} * 114.2285 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Isopentane: 39494.3 {scf/event} * 0.004117 {mole fraction} * 72.1488 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Hexane: 39494.3 {scf/event} * 0.002356 {mole fraction} * 86.1754 {lb/lb-mole} / 379.3 {scf/lb-mole}
 n-Nonane: 39494.3 {scf/event} * 0.000374 {mole fraction} * 128.2551 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Isobutane: 39494.3 {scf/event} * 0.007868 {mole fraction} * 58.1222 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Butane: 39494.3 {scf/event} * 0.019575 {mole fraction} * 58.1222 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Ethane: 39494.3 {scf/event} * 0.126371 {mole fraction} * 30.069 {lb/lb-mole} / 379.3 {scf/lb-mole}
 Nitrogen: 39494.3 {scf/event} * 0.03468 {mole fraction} * 28.0134 {lb/lb-mole} / 379.3 {scf/lb-mole}

Violations:

Known or anticipated acute or chronic health risks associated with the emergency:

Medical attention advised for exposed individuals:

Cause of the upset:

Poly line grew and pinched itself off causing leak

Actions taken to correct the upset and minimize emissions:

Line shut in

Precautions taken as a result of the release:

A. AI Number	N. Failure Pt No: O. Failure Pt. Description: M-31				
A. NOx: 0 lb	B. SO2: 0 lb	C. CO: 0 lb	D. PM:	E. VOC: 591.29 lb	F. H2S: 0 lb
Vol=39.49 mscf/event					

SERC Email Notification:	henry.jolly@state.nm.us	LEPC Email Notification:	lvelasquez@leacounty.net
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M-31 LINE LEAK

Remediation Action Plan

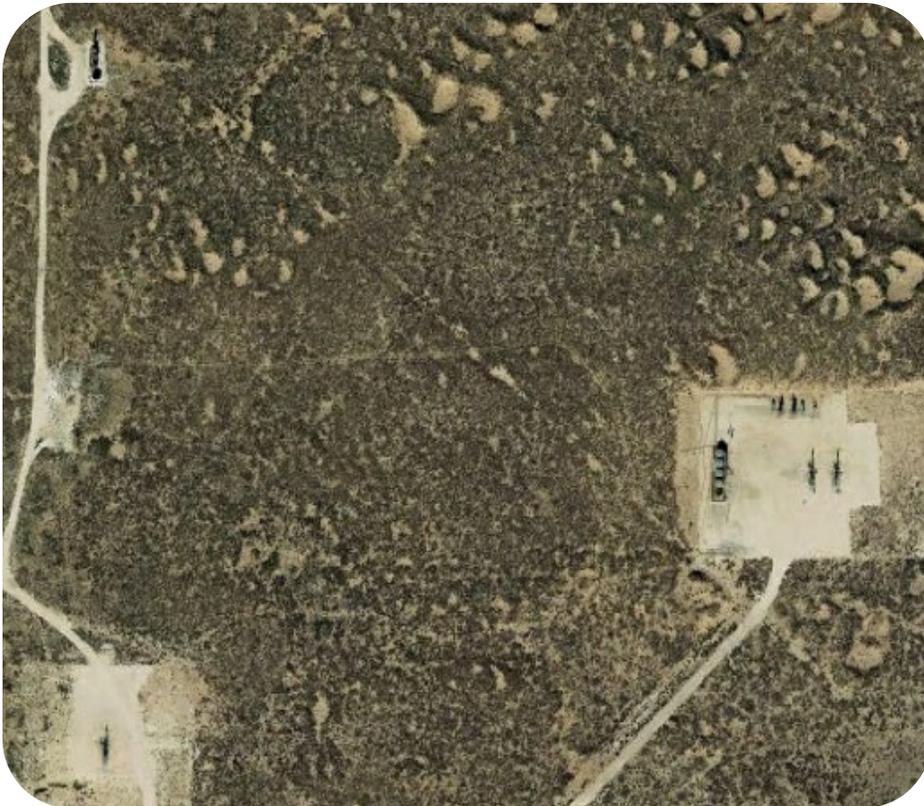
NMOCD Incident No. nAPP2213935065

UL "M", Sec. 25, T18S, R31E

32.712359°, -103.827850°

Eddy County, New Mexico

February 20, 2023



PREPARED ON BEHALF OF

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



PREPARED BY

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



February 15, 2023

DCP Midstream, LP
6900 E. Layton Ave., Suite 900
Denver, Colorado 80337

Attn: Mr. Steve Weathers
Email: swweathers@dcpmidstream.com

Re: Remediation Action Plan
M-31 Line Leak
UL "M", Section 25, Township 18 South, Range 31 East
Eddy County, New Mexico
NMOCD Incident No. NAPP2213935065
Tasman Project No. 4303

Dear Mr. Weathers,

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

Tasman conducted initial assessment activities, identifying an approximately 31,000-square foot area that had been impacted by the release. The release area was then vertically, and horizontally delineated. Based on laboratory analytical results from soil samples collected during confirmation sampling activities, impacted soil within the release area has been delineated to the applicable NMOCD Action Level. Additional project details are provided in the attached Remediation Action Plan.

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

Sincerely,
Tasman, Inc.

Brett Dennis
Senior Environmental Scientist
bdennis@tasman-geo.com

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

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Appendix B – Depth to Groundwater Information

Appendix C – Photographic Log

Appendix D – Certified Laboratory Analytical Reports



1.0 INTRODUCTION

Tasman, Inc. (Tasman) is pleased to submit this Remediation Action Plan for the M-31 Line Leak (site) on behalf of DCP Midstream, LP (DCP), documenting the results of field activities conducted in response to a release of natural gas and natural gas condensate to environmental media.

1.1 Site Description

The site is located in Unit Letter “M” of Section 25, Township 18 South, Range 31 East in Eddy County, New Mexico. The release occurred from the M-31 pipeline, a 12-inch diameter steel natural gas pipeline on property held by the Bureau of Land Management (BLM). The site location is illustrated on Figure 1.

1.2 Release Detail and Initial Response

On May 16, 2022, the M-31 pipeline was discovered by DCP personnel to have failed due to internal corrosion. Notice was provided to Mr. Mike Bratcher with the New Mexico Oil Conservation District (NMOCD) by phone on May 17, 2022. A Notification of Release (NOR) was provided to the NMOCD via online portal on May 18, 2022. The release resulted in the loss of approximately 25 barrels (bbls) of natural gas condensate and 39 thousand cubic feet (mcf) of natural gas to the surrounding environmental media. DCP personnel shut in the pipeline to isolate the release. The line was later repaired and returned to service. No natural gas or natural gas condensate was recovered.

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

2.0 SITE CHARACTERISTICS

2.1 Depth to Groundwater

Tasman reviewed available depth to groundwater information available through the New Mexico Office of the State Engineer (NMOSE) and United States Geologic Survey (USGS) for registered water wells near the site. The nearest registered water well, identified as USGS 324159103503801, is located 1.3 miles southwest of the site. The depth to water was measured at 260.67 feet below ground surface (bgs) in March 1994. Figure 1 illustrates the location of the



registered water wells within the vicinity of the site, and a summary of depth to groundwater information is provided as Appendix B.

2.2 Karst Potential

Tasman utilized the publicly available karst potential map published by the BLM Carlsbad Field Office (CFO) to determine the potential for encountering karst formations beneath the site. Review of the BLM CFO karst potential map indicates that the site is not located in an area of high potential to encounter karstic features.

2.3 Proximity to Sensitive Receptors and Site Characteristics Summary

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

Site Characteristics Summary		
Approximate depth to groundwater:	~ 260 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 AND ASSESSMENT LEVELS

NMOCD assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and proximity to sensitive receptors as established in NMAC 19.15.29. Based on site characteristics described in Section 2.0, the NMOCD Action Levels for a site with a depth to groundwater of greater than 100 feet bgs were utilized; these Action Levels are as follows:

Constituent	Action Level
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

TPH – total petroleum hydrocarbons

DRO – diesel range organics

BTEX – benzene, toluene, ethylbenzene, total xylenes

GRO – gasoline range organics

MRO – motor/lube oil range organics

mg/kg – milligrams per kilogram

3.1 Reclamation Levels

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

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

4.0 RELEASE ASSESSMENT

On May 17, 2022, Tasman was retained by DCP to respond to a release of natural gas and natural gas condensate at the site. Initial observations indicated a disturbed area of approximately 31,000 square feet (ft²). A photographic log of the release area is included as Appendix C. Three soil borings (HA-1 through HA-3) were advanced by hand auger. The collected samples were not submitted for laboratory analysis.

On January 6, 2023, Tasman advanced three soil borings (HA-4 through HA-6) via hand auger to delineate the release area vertically. Each of these soil borings were advanced within the observed release area to depths ranging from 3 feet bgs to 11 feet bgs. Five shallow soil samples were also collected from the overspray area (OS-1 through OS-5). The overspray samples were field screened but not submitted for laboratory analysis.



On January 10, 2023, Tasman mobilized to the site to advance an additional eight soil borings (HA-7 through HA-11) via hand auger to further delineate the release. Soil borings were advanced to depths ranging from 1 foot bgs to 4 feet bgs.

On January 18, 2023, Tasman advanced two additional soil borings (HA-11A and HA-12) to achieve horizontal delineation and collected an additional four shallow soil samples from the overspray area.

The attached Figure 2 illustrates the observed release and overspray area 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) 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 chlorides were detected above Reclamation Standards in soil boring HA-6 from 0.5 feet bgs at a concentration of 800 milligrams per kilogram (mg/kg) and HA-7A at a concentrations of 1,490 mg/kg. Vertical delineation was achieved for chlorides at soil boring HA-6 with the sample collected at 3 feet bgs. Vertical delineation was achieved at soil boring HA-7A with the soil sample collected at 2 feet bgs. Horizontal delineation was achieved at soil boring HA-7A with the soil samples collected from soil boring HA-7B at 0.5 feet bgs and 1 foot bgs.



Concentrations of TPH were detected above Reclamation Standards in soil borings HA-6, HA-7, HA-7A, and HA-9 at 0.5 feet bgs and HA-11 at 1 foot bgs. Vertical delineation was achieved at each of these soil borings by a deeper sample. Horizontal delineation with the advancement of soil borings HA-7B, HA-9A, HA-11A, and HA-12.

Concentrations of BTEX were not detected above the laboratory sample detection limit (SDL) in any of the soil sample collected for laboratory analysis.

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

4.4 Overspray Area Assessment Data Evaluation

Overspray soil samples OS-1 through OS-5 were field screeded for volatile organic compounds (VOCs) by a photoionization detector (PID) and for chlorides using a field titration kit. PID readings of these samples ranged from 7.4 parts per million (ppm) in soil sample OS-1 to 10.7 ppm in soil sample OS-4. Field chloride titration results ranged from 57.0 mg/kg in soil samples OS-4 and OS-5 to 236 mg/kg in soil sample OS-1.

Overspray samples OS-6 through OS-9 were submitted for laboratory analysis. Analytical results indicated that concentrations of BTEX and TPH were not detected above laboratory SDLs. Each of the submitted soil samples exhibited a concentration of chloride of 16.0 mg/kg.

5.0 PROPOSED REMEDIAL ACTIONS

Tasman proposes to remediate the site using physical removal of soil within the delineated area of the release. Excavated soil will be staged on-site atop a polyethylene liner pending transportation under manifest to an NMOCD approved disposal facility. The surface of the overspray area will be treated using Micro-Blaze®.

Once field data indicates that the release area has been remediated to NMOCD requirements established in Section 3.0 and Micro-Blaze® treatment is completed, 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 500 ft². Discrete samples will be collected from the overspray area. Confirmation sampling activities and laboratory analysis will be conducted as described in Sections 4.1 and 4.2.

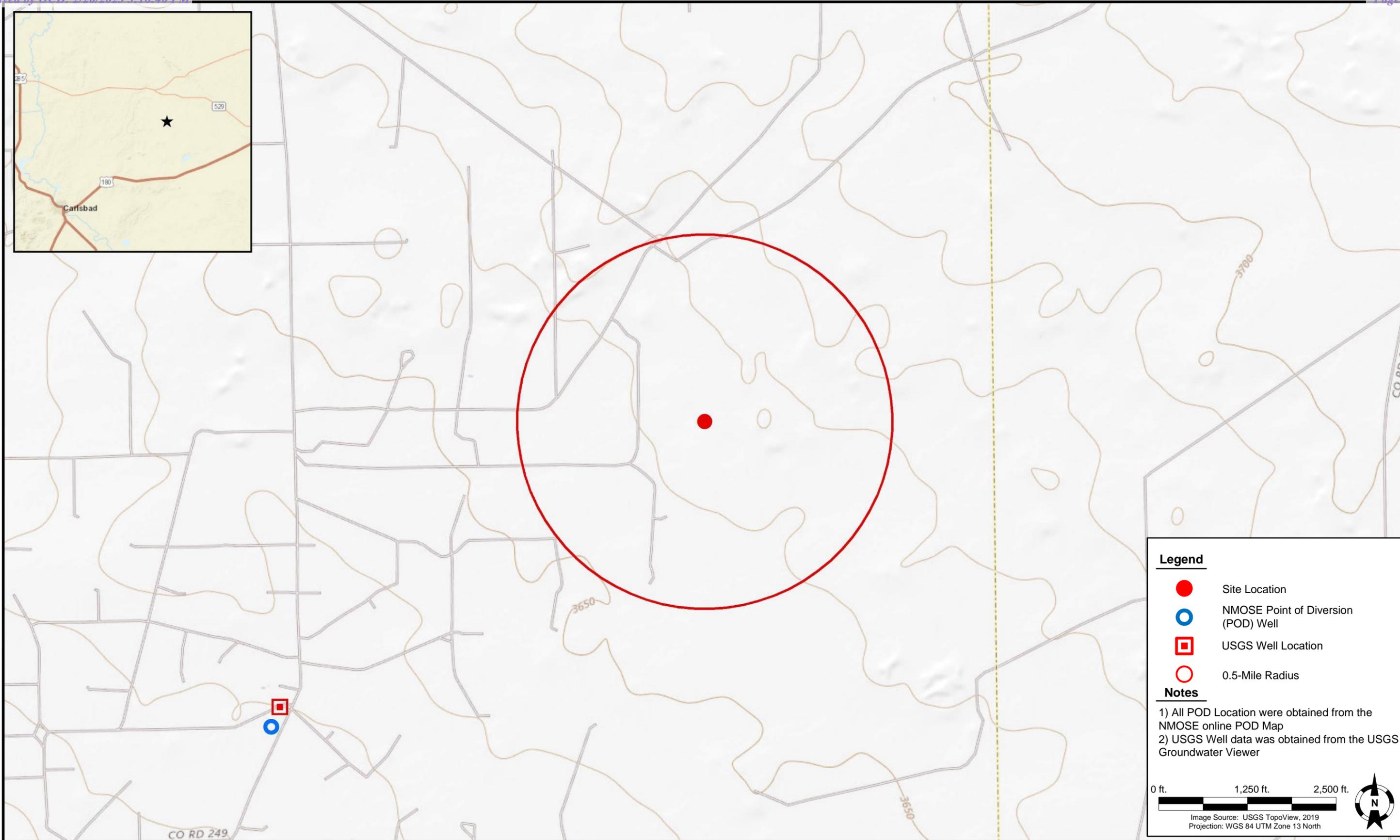


6.0 PROPOSED RECLAMATION AND REVEGETATION

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

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

Figures



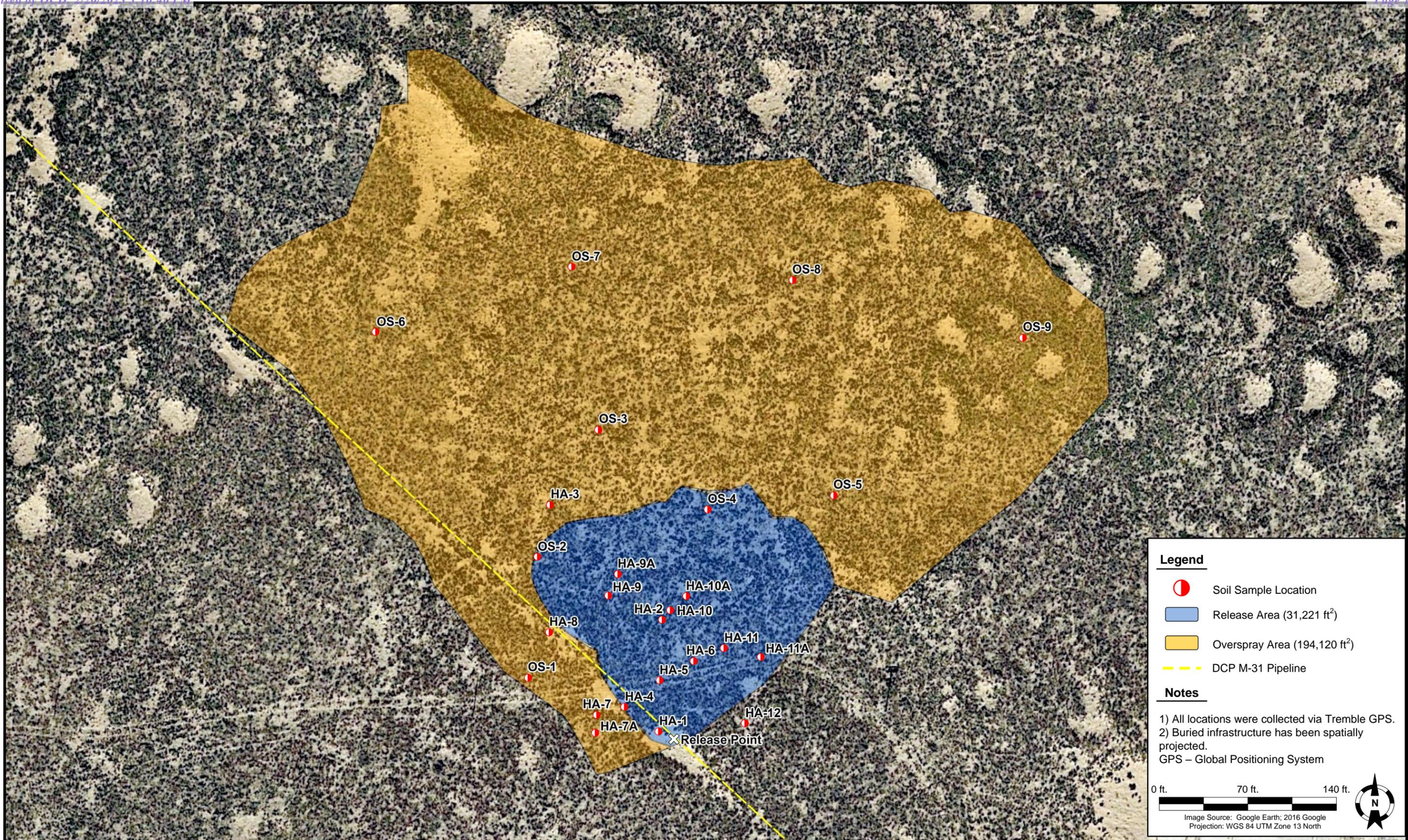
DATE:	February 2023
DESIGNED BY:	BD
DRAWN BY:	BD


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

DCP Midstream, LP
M-31 Line Leak – nAPP2213935065
 UL “M”, Section 25, Township 18 South, Range 31 East
 Eddy County, New Mexico

Site Location and
 Characteristics Map

Figure
 1



Legend

-  Soil Sample Location
-  Release Area (31,221 ft²)
-  Overspray Area (194,120 ft²)
-  DCP M-31 Pipeline

Notes

- 1) All locations were collected via Tremble GPS.
- 2) Buried infrastructure has been spatially projected.

GPS – Global Positioning System

0 ft. 70 ft. 140 ft.

Image Source: Google Earth; 2016 Google
Projection: WGS 84 UTM Zone 13 North



DATE:	February 2023
DESIGNED BY:	BD
DRAWN BY:	BD



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

DCP Midstream, LP
M-31 Line Leak – nAPP2213935065
UL "M", Section 25, Township 18 South, Range 31 East
Eddy County, New Mexico

Release Overview Map

Figure 2

Tables

TABLE 1 - SOIL ANALYTICAL SUMMARY - RELEASE AREA
DCP Midstream, LP
M-31 Line Leak
NMOCD Incident No. nAPP2213935065

Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
HA-1	0-0.5	5/17/2022	In-Situ	>5,000	5,115	---	---	---	---	---	---	---
	2		In-Situ	>5,000	2,170	---	---	---	---	---	---	
	4		In-Situ	4,950	516	---	---	---	---	---	---	
HA-2	0-0.5	5/17/2022	In-Situ	1,999	1,420	---	---	---	---	---	---	---
	2		In-Situ	1,380	284	---	---	---	---	---	---	
	4		In-Situ	3,000	147	---	---	---	---	---	---	
HA-3	0-0.5	5/17/2022	In-Situ	98.0	88.0	---	---	---	---	---	---	---
	2		In-Situ	120	86.8	---	---	---	---	---	---	
	4		In-Situ	210	87.1	---	---	---	---	---	---	
HA-4	0-0.5	1/6/2023	In-Situ	12.4	2,621	---	---	---	---	---	---	---
	1		In-Situ	8.9	1,442	---	---	---	---	---	---	
	2		In-Situ	7.3	1,533	---	---	---	---	---	---	
	3		In-Situ	13.6	1,960	---	---	---	---	---	---	
	4		In-Situ	8.0	282	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	336
	5		In-Situ	18.7	454	<0.050	<0.300	<10.0	42.8	<10.0	42.8	400
HA-5	0-0.5	1/6/2023	In-Situ	91.7	3,462	---	---	---	---	---	---	---
	1		In-Situ	85.3	1,924	---	---	---	---	---	---	---
	2		In-Situ	101	342	---	---	---	---	---	---	---
	3		In-Situ	65	173	---	---	---	---	---	---	---
	4		In-Situ	37.6	179	---	---	---	---	---	---	---
	5		In-Situ	65.8	711	---	---	---	---	---	---	---
	6		In-Situ	128	2,883	<0.50	<0.300	10.8	849	117	977	3,160
	7		In-Situ	69.6	3,214	---	---	---	---	---	---	---
	8		In-Situ	60.4	151	---	---	---	---	---	---	---
	9		In-Situ	43.5	207	---	---	---	---	---	---	---
	10		In-Situ	106	538	---	---	---	---	---	---	---
	10.5		In-Situ	119	760	---	---	---	---	---	---	---
11	In-Situ	88.9	317	<0.050	<0.300	<10.0	702	116	818	480		
HA-6	0-0.5	1/6/2023	In-Situ	14.5	1,223	<0.050	<0.300	<50.0	9,530	1,280	10,810	800
	1		In-Situ	11.1	88.0	---	---	---	---	---	---	---
	2		In-Situ	4.3	176	---	---	---	---	---	---	---
	3		In-Situ	2.8	---	<0.050	<0.300	<10.0	25.6	<10.0	25.6	80.0
HA-7	0-0.5	1/10/2023	In-Situ	7.1	480	<0.050	<0.300	<10.0	703	330	1,033	592
	1		In-Situ	9.6	169	---	---	---	---	---	---	---
	2		In-Situ	9.4	168	---	---	---	---	---	---	---
	3		In-Situ	8.7	180	---	---	---	---	---	---	---
	4		In-Situ	9.8	566	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	512
HA-7A	0-05	1/10/2023	In-Situ	1.1	1,415	<0.050	<0.300	<10.0	340	163	503	1,490
	1		In-Situ	3.0	252	---	---	---	---	---	---	---
	2		In-Situ	3.9	179	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	240
HA-7B	0-0.5	1/10/2023	In-Situ	3.1	84.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	1		In-Situ	2.4	58.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
NMOCD Reclamation Standards ⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards ⁵ (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000	N/A	2,500	20,000	

TABLE 1 - SOIL ANALYTICAL SUMMARY - RELEASE AREA
DCP Midstream, LP
M-31 Line Leak
NMOCD Incident No. nAPP2213935065

Sample ID	Sample Depth	Sample Date	Soil Status	PID (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX ¹ (mg/kg)	TPH ² (mg/kg)				Chloride ³ (mg/kg)
								GRO	DRO	MRO	TOTAL	
HA-8	0-05	1/10/2023	In-Situ	1.1	58.0	---	---	---	---	---	---	---
	1		In-Situ	9.5	57.0	---	---	---	---	---	---	
	2		In-Situ	13	56.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	3		In-Situ	8.4	57.0	---	---	---	---	---	---	
	4		In-Situ	13.2	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
HA-9	0-0.5	1/10/2023	In-Situ	6.2	1,491	<0.050	<0.300	<50.0	2,740	1,150	3,890	656
	1		In-Situ	8.5	58.0	---	---	---	---	---	---	
	2		In-Situ	7.8	60.0	---	---	---	---	---	---	
	3		In-Situ	3.0	58.0	---	---	---	---	---	---	
	4		In-Situ	5.9	56.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
HA-9A	0-0.5	1/18/2023	In-Situ	0.2	362	---	---	---	---	---	---	---
	1		In-Situ	0.3	57.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	2		In-Situ	0.4	56.1	---	---	---	---	---	---	
	3		In-Situ	0.4	57.3	---	---	---	---	---	---	
	4		In-Situ	0.2	115	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
HA-10	0-0.5	1/10/2023	In-Situ	5.4	786	<0.050	<0.300	<50.0	2,010	672	2,682	464
	1		In-Situ	6.2	112	---	---	---	---	---	---	
	2		In-Situ	6.9	56.0	---	---	---	---	---	---	
	3		In-Situ	10.0	58.0	---	---	---	---	---	---	
	4		In-Situ	6.2	59.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
HA-10A	0-0.5	1/10/2023	In-Situ	2.4	471	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	496
	1		In-Situ	0.8	145	---	---	---	---	---	---	
	2		In-Situ	2.1	113	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
HA-11	0-0.5	1/10/2023	In-Situ	9.4	266	---	---	---	---	---	---	---
	1		In-Situ	10.4	207	<0.050	<0.300	<50.0	1,530	303	1,833	176
	2		In-Situ	7.1	418	---	---	---	---	---	---	
	3		In-Situ	11.9	116	---	---	---	---	---	---	
	4		In-Situ	4.2	90.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
HA-11A	0-0.5	1/18/2023	In-Situ	0.1	58.1	---	---	---	---	---	---	---
	1		In-Situ	0.1	57.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	2		In-Situ	0.2	57.7	---	---	---	---	---	---	
	3		In-Situ	0.2	56.2	---	---	---	---	---	---	
	4		In-Situ	0.3	58.1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
HA-12	0-0.5	1/18/2023	In-Situ	0	83.1	---	---	---	---	---	---	---
	1		In-Situ	0.1	58.4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	2		In-Situ	0.2	57.4	---	---	---	---	---	---	
	3		In-Situ	0.2	55.6	---	---	---	---	---	---	
	4		In-Situ	0.1	89.4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
NMOCD Reclamation Standards⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards⁵ (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000	N/A	2,500	20,000	

Notes:

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B
- 2. TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)
- 3. Chloride - Analyzed by EPA method SM4500
- 4. New Mexico Administrative Code (NMAC) 19.15.29.13(D) - Restoration, Reclamation, and Re-vegetation (Reclamation for areas no longer in use) for soils extending to 4 ft. below grade surface (bgs).
- 5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample
- Bold** values denote concentrations above laboratory SDL
- Red** values denote concentrations above NMOCD Action Levels

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

TABLE 2 - SOIL ANALYTICAL SUMMARY - OVERSPRAY AREA
DCP Midstream, LP
M-31 Line Leak
NMOCD Incident No. nAPP2213935065

Sample ID	Sample Depth (ft)	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	
OS-1	0-0.5	1/6/2023	In-Situ	7.4	236	---	---	---	---	---	---	---
OS-2	0-0.5	1/6/2023	In-Situ	10.3	176	---	---	---	---	---	---	---
OS-3	0-0.5	1/6/2023	In-Situ	10.1	61.0	---	---	---	---	---	---	---
OS-4	0-0.5	1/6/2023	In-Situ	10.7	57.0	---	---	---	---	---	---	---
OS-5	0-0.5	1/6/2023	In-Situ	10.5	57.0	---	---	---	---	---	---	---
OS-6	0-0.5	1/18/2023	In-Situ	0.0	56.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
OS-7	0-0.5	1/18/2023	In-Situ	0.0	58.1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
OS-8	0-0.5	1/18/2023	In-Situ	0.0	58.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
OS-9	0-0.5	1/18/2023	In-Situ	0.0	56.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
NMOCD Reclamation Standards⁴ (Applicable for soils less than 4 ft. below grade surface)				N/A	N/A	10	50	N/A			100	600
NMOCD Remediation and Delineation Standards⁵ (Applicable for soils greater than 4 ft. below grade surface)				N/A	N/A	10	50	1,000		N/A	2,500	20,000

Notes:

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA method 8021B
- 2. TPH = Total petroleum hydrocarbons analyzed by method EPA 8015M (GRO/DRO/MRO)
- 3. Chloride - Analyzed by EPA method SM4500
- 4. New Mexico Administrative Code (NMAC) 19.15.29.13(D) - Restoration, Reclamation, and Re-vegetation (Reclamation for areas no longer in use) for soils extending to 4 ft. below grade surface (bgs).
- 5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (NMAC 19.15.29.12(N))
- * = Denotes discrete/grab sample
- Bold** values denote concentrations above laboratory SDL
- Red** values denote concentrations above NMOCD Action Levels

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

Appendix A – NMOCD Notifications

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 108416

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 108416
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	M-31 Line
Date Release Discovered	05/16/2022
Surface Owner	Federal

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Natural Gas Release
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Blow Out Pipeline (Any) Condensate Released: 25 BBL Recovered: 0 BBL Lost: 25 BBL]
Natural Gas Vented (Mcf) Details	Cause: Blow Out Pipeline (Any) Natural Gas Vented Released: 39 Mcf Recovered: 0 Mcf Lost: 39 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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QUESTIONS, Page 2

Action 108416

QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 108416
	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	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Kyle Norman
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher
If YES, was immediate notice given to the OCD, when	05/17/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	phone

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

Action 108416

ACKNOWLEDGMENTS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 108416
	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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CONDITIONS

Action 108416

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 108416
	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.	5/19/2022

Appendix B – Depth to Groundwater Information



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Site Information ▼

Geographic Area:

United States ▼

GO

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- [Full News](#) 

USGS 324159103503801 18S.31E.35.31324

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83
 Eddy County, New Mexico , Hydrologic Unit 13060011
 Well depth: 300 feet
 Land surface altitude: 3,630 feet above NAVD88.
 Well completed in "Other aquifers" (N9999OTHER) national aquifer.
 Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1971-04-05	1994-03-17	5
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
 Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324159103503801



Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2023-02-10 12:48:45 EST

0.27 0.26 caww01



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States GO

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Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
 site_no list = 324159103503801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324159103503801 18S.31E.35.31324

Eddy County, New Mexico
 Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83
 Land-surface elevation 3,630 feet above NAVD88
 The depth of the well is 300 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement
1971-04-05			D 62610		3367.36	NGVD29	1	Z		
1971-04-05			D 62611		3368.92	NAVD88	1	Z		
1971-04-05			D 72019	261.08			1	Z		
1976-05-27			D 62610		3367.91	NGVD29	1	Z		
1976-05-27			D 62611		3369.47	NAVD88	1	Z		
1976-05-27			D 72019	260.53			1	Z		
1983-04-11			D 62610		3367.94	NGVD29	1	Z		
1983-04-11			D 62611		3369.50	NAVD88	1	Z		
1983-04-11			D 72019	260.50			1	Z		
1987-01-26			D 62610		3367.44	NGVD29	1	S		
1987-01-26			D 62611		3369.00	NAVD88	1	S		
1987-01-26			D 72019	261.00			1	S		
1994-03-17			D 62610		3367.77	NGVD29	1	S		
1994-03-17			D 62611		3369.33	NAVD88	1	S		
1994-03-17			D 72019	260.67			1	S		

Explanation

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

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

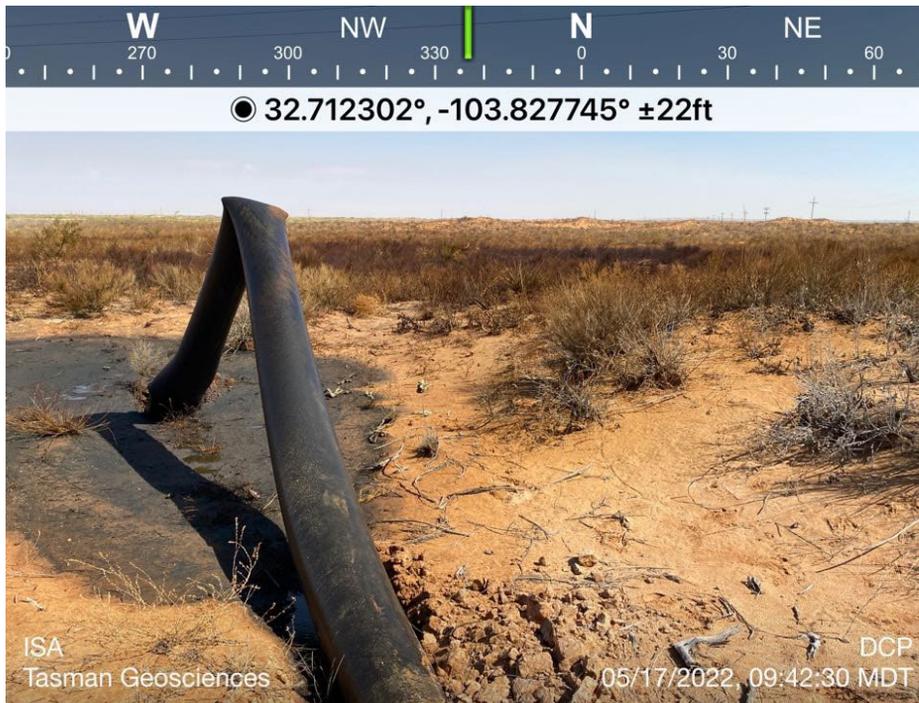
Page Last Modified: 2023-02-10 12:49:52 EST

0.27 0.24 nadww01



Appendix C – Photographic Log

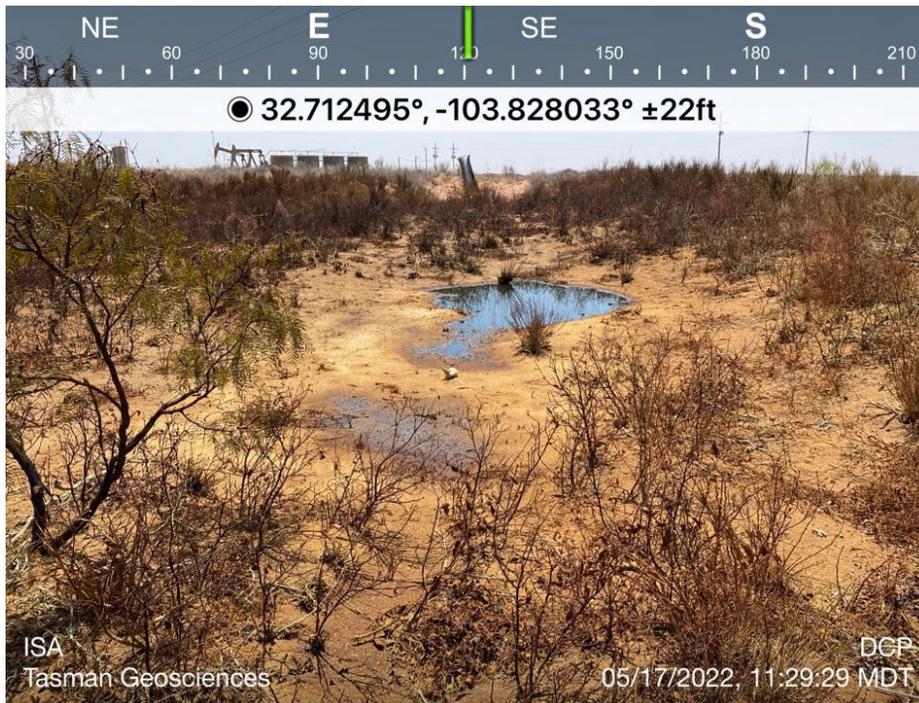
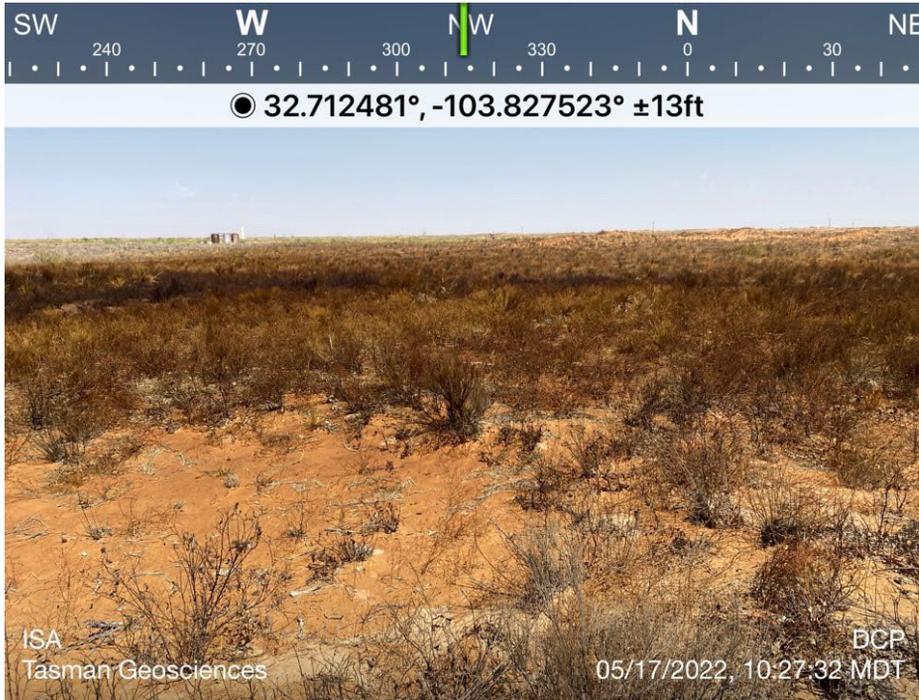
DCP Midstream, LP
M-31 Line Leak
NMOCD Ref No. nAPP2213935065



DCP Midstream, LP
M-31 Line Leak
NMOCD Ref No. nAPP2213935065



DCP Midstream, LP
M-31 Line Leak
NMOCD Ref No. nAPP2213935065



Appendix D – Certified Laboratory Analytical Reports



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

January 12, 2023

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

RE: 4303_M-31 LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/23 15:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6 @ 0-0.5' (H230104-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	800	16.0	01/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	01/10/2023	ND	204	102	200	0.454		
DRO >C10-C28*	9530	50.0	01/10/2023	ND	186	92.8	200	0.129		
EXT DRO >C28-C36	1280	50.0	01/10/2023	ND						

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 374 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 6 @ 3' (H230104-02)

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	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	01/10/2023	ND	400	100	400	3.92	

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	01/10/2023	ND	204	102	200	0.454	
DRO >C10-C28*	25.6	10.0	01/10/2023	ND	186	92.8	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4 @ 4' (H230104-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	336	16.0	01/10/2023	ND	400	100	400	3.92	

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	01/10/2023	ND	204	102	200	0.454	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	92.8	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4 @ 5' (H230104-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	400	16.0	01/10/2023	ND	400	100	400	3.92	

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	01/10/2023	ND	204	102	200	0.454	
DRO >C10-C28*	42.8	10.0	01/10/2023	ND	186	92.8	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 4 @ 6' (H230104-05)

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	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	96.0	16.0	01/10/2023	ND	400	100	400	3.92	

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	01/10/2023	ND	204	102	200	0.454	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	92.8	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5 @ 6' (H230104-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	3160	16.0	01/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.8	10.0	01/10/2023	ND	204	102	200	0.454	
DRO >C10-C28*	849	10.0	01/10/2023	ND	186	92.8	200	0.129	
EXT DRO >C28-C36	117	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/09/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 5 @ 11' (H230104-07)

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	01/10/2023	ND	2.00	100	2.00	0.256	
Toluene*	<0.050	0.050	01/10/2023	ND	2.19	110	2.00	0.104	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	107	2.00	0.552	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.62	110	6.00	1.28	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	480	16.0	01/10/2023	ND	400	100	400	3.92	

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	01/10/2023	ND	204	102	200	0.454	
DRO >C10-C28*	702	10.0	01/10/2023	ND	186	92.8	200	0.129	
EXT DRO >C28-C36	116	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

* 16 = 2 *

Company Name: Tasman Geosciences		BILL TO		P.O. #:						
Project Manager: Kyle Norman		Company: Tasman Geo		Fax #:						
Address: 2620 W. Marland Blvd.		Attn: Kyle Norman		Phone #:						
City: Hobbs		Address: 2620 W. Marland		Fax #:						
State: NM Zip: 88240		City: Hobbs		Phone #:						
Phone #: 575-318-5017		State: NM Zip: 88240		Fax #:						
Project #:		Project Owner: DCP Midstream L.P		Phone #:						
Project Name:		City: Hobbs		Fax #:						
Project Location: 4303 M-31 Line Release		State: NM Zip: 88240		Phone #:						
Sampler Name: Chrs Flores		Project Name:		Fax #:						
FOR LAB USE ONLY		PREPARED BY:		SAMPLING						
Lab I.D. <i>H130104</i>	Sample I.D.	(G)RAB OR (C)OMP.	DATE	TIME	Chlorides					
		# CONTAINERS	1/06/23	0920	TPH 8015 M					
		GROUNDWATER		0950	BTEX					
		WASTEWATER		1030	TPH TX1005					
		SOIL		1040	Complete Cations/Anions					
		OIL		1050	TDS					
		SLUDGE		1320	HOLD					
		OTHER :		1420	24 Hour RUSH					
		ACID/BASE:		0830						
		ICE / COOL		0840						
OTHER :		0850								
HA-6 @ 0-0.5'	G 1									
HA-6 @ 3'	G 1									
HA-4 @ 4'	G 1									
HA-4 @ 5'	G 1									
HA-4 @ 6'	G 1									
HA-5 @ 6'	G 1									
HA-5 @ 11'	G 1									
OS-1 @ 0-0.5'	G 1		1/09/23							
OS-2 @ 0-0.5'	G 1									
OS-3 @ 0-0.5'	G 1									

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Relinquished By: *[Signature]* Date: *02/08/2023* Received By: *[Signature]*

Time: *1/9/23 CE*

Relinquished By: *[Signature]* Date: *1/9/23 CE* Received By: *[Signature]*

Time: *1548*

Delivered By: (Circle One) *UPS* *1.6e/1.0e* *1.0e*

Sampler - UPS - Bus - Other:

Sample Condition Cool Intact

CHECKED BY: *[Signature]* (Initials) *VO*

REMARKS: ** Customer requested to hold 8-12*

Phone Result: Yes No Add'l Phone #: *70 1/10/23*

Fax Result: Yes No Add'l Fax #:

email results: *lflores@tasman-geo.com, knorman@tasman-geo.com, bdennis@tasman-geo.com, cflores@tasman-geo.com, alhyman@dcpmidstream.com, jhyman@dcpmidstream.com*



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

January 16, 2023

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

RE: 4303_M-31 LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/11/23 11:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7 @ 0-0.5' (H230153-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/12/2023	ND	448	112	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	01/13/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	703	10.0	01/13/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	330	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7 @ 4' (H230153-02)

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	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/12/2023	ND	448	112	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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 8 @ 2' (H230153-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/12/2023	ND	448	112	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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 8 @ 4' (H230153-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/12/2023	ND	448	112	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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 9 @ 0-0.5' (H230153-05)

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	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	01/12/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	01/12/2023	ND	181	90.3	200	21.4		
DRO >C10-C28*	2740	50.0	01/12/2023	ND	166	83.0	200	27.3		
EXT DRO >C28-C36	1150	50.0	01/12/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 163 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 9 @ 4' (H230153-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/12/2023	ND	448	112	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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10 @ 0-0.5' (H230153-07)

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	01/12/2023	ND	1.99	99.6	2.00	1.07		
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	01/12/2023	ND	181	90.3	200	21.4		
DRO >C10-C28*	2010	50.0	01/12/2023	ND	166	83.0	200	27.3		
EXT DRO >C28-C36	672	50.0	01/12/2023	ND						

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10 @ 4' (H230153-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/12/2023	ND	448	112	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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 11 @ 1' (H230153-09)

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	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/12/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	1530	50.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	303	50.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 11 @ 4' (H230153-10)

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	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/12/2023	ND	448	112	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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7 A @ 0-0.5' (H230153-11)

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	01/12/2023	ND	1.94	97.2	2.00	4.11	
Toluene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	5.21	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	1.94	96.8	2.00	6.80	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	5.96	99.3	6.00	7.33	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1490	16.0	01/12/2023	ND	416	104	400	0.00	QM-07

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	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	340	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	163	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7 A @ 2' (H230153-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.2	2.00	4.11	
Toluene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	5.21	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	1.94	96.8	2.00	6.80	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	5.96	99.3	6.00	7.33	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	240	16.0	01/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10 A @ 0-0.5' (H230153-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.2	2.00	4.11	
Toluene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	5.21	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	1.94	96.8	2.00	6.80	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	5.96	99.3	6.00	7.33	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	496	16.0	01/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 10 A @ 2' (H230153-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.2	2.00	4.11	
Toluene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	5.21	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	1.94	96.8	2.00	6.80	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	5.96	99.3	6.00	7.33	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	112	16.0	01/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7 B @ 0-0.5' (H230153-15)

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	01/12/2023	ND	1.94	97.2	2.00	4.11	
Toluene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	5.21	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	1.94	96.8	2.00	6.80	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	5.96	99.3	6.00	7.33	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	181	90.3	200	21.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	83.0	200	27.3	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/11/2023	Sampling Date:	01/10/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	4303	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 7 B @ 1' (H230153-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.94	97.2	2.00	4.11	
Toluene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	5.21	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	1.94	96.8	2.00	6.80	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	5.96	99.3	6.00	7.33	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/12/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	159	79.4	200	7.36	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	152	76.1	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

January 23, 2023

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

RE: 4303_M-31 LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/18/23 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 9 A @ 1' (H230267-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2023	ND	2.23	111	2.00	0.654		
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32		
Total BTEX	<0.300	0.300	01/20/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70		
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126		
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND						

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 9 A @ 4' (H230267-02)

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	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 11 A @ 1' (H230267-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 11 A @ 4' (H230267-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 12 @ 1' (H230267-05)

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	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: HA - 12 @ 4' (H230267-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: OS - 6 (H230267-07)

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	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: OS - 7 (H230267-08)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2023	ND	2.23	111	2.00	0.654		
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32		
Total BTEX	<0.300	0.300	01/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70		
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126		
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: OS - 8 (H230267-09)

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	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2023	Sampling Date:	01/18/2023
Reported:	01/23/2023	Sampling Type:	Soil
Project Name:	4303_M-31 LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: OS - 9 (H230267-10)

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	01/20/2023	ND	2.23	111	2.00	0.654	
Toluene*	<0.050	0.050	01/20/2023	ND	2.26	113	2.00	3.64	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.15	108	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.50	108	6.00	2.32	
Total BTEX	<0.300	0.300	01/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2023	ND	190	95.1	200	3.70	
DRO >C10-C28*	<10.0	10.0	01/19/2023	ND	189	94.5	200	0.126	
EXT DRO >C28-C36	<10.0	10.0	01/19/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tasman Geosciences		BILL TO		P.O. #:	
Project Manager: Kyle Norman		Company: Tasman Geo		SAMPLING	
Address: 2620 W. Marland Blvd.		Attn: Kyle Norman		DATE	
City: Hobbs		Address: 2620 W. Marland		TIME	
Phone #: 575-318-5017		City: Hobbs		Chlorides	
Project #:		State: NM Zip: 88240		TPH 8015 M	
Project Name: 4303_M_31 Line Release		State: NM Zip: 88240		BTEX	
Project Location:		Phone #: 575-318-5017		TPH TX1005	
Sampler Name: Chris Flores		Fax #:		Complete Cations/Anions	
FOR LAB USE ONLY		PRESERV.		TDS	
Lab I.D.		OTHER:		HOLD	
Sample I.D.		ICE / COOL		24 Hour RUSH	
H230267		OTHER:			
1		ACID/BASE:			
HA-9A @ 1'		OTHER:			
2		DATE			
HA-9A @ 4'		1.18.23			
3		TIME			
HA-11A @ 1'		0840			
4		0910			
HA-11A @ 4'		1040			
5		1110			
HA-12 @ 1'		1210			
6		1240			
HA-12 @ 4'		0930			
7		0940			
OS-6		0950			
8		1000			
OS-7					
9					
OS-8					
10					
OS-9					

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Relinquished By:	Date: 1.18.23	Received By:	Time: 16:37
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

REMARKS:
 email results: lflores@tasman-geo.com, knorman@tasman-geo.com, bdenmis@tasman-geo.com, cflores@tasman-geo.com, alhyman@dcpmidstream.com, jhyman@dcpmidstream.com

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

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

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

CONDITIONS

Action 188316

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 188316
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The Variance Request for 500 ft2 floor confirmation sample size is approved. This includes the Release Area and the Overspray Area. Collect sidewall confirmation samples, representing no more than 200 ft2. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The work will need to occur in 90 days after the work plan has been reviewed.	6/21/2023