

Incident ID	nRM2032828643
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>~50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Kyle Norman Title: Regional Project Manager  
Signature: *Kyle Norman* Date: 4/9/2021  
email: knorman@tasman-geo.com Telephone: 575-318-5017

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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

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

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

Printed Name: Kyle Norman Title: Regional Project Manager  
Signature: Kyle Norman Date: 4/9/2021  
email: knorman@tasman-geo.com Telephone: 575-318-5017

**OCD Only**

Received by: Chad Hensley Date: 07/27/201

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

Signature: Chad Hensley Date: 07/27/201



April 9, 2021

Mike Bratcher  
 New Mexico Energy, Minerals and Natural Resources Department  
 Oil Conservation Division, District 2  
 811 S. First Street  
 Artesia, NM 88210

**Re: Site Assessment Summary and Remediation Plan**  
**Natural Gas Gathering Line TT-1 Line Leak**  
**GPS: Latitude 32.37175 Longitude -103.14493**  
**UL "P", Sec. 22, T22S, R37E**  
**Lea County, NM**  
**NMOCD Ref. No. NRM2032828643**

Tasman Geosciences, Inc. (Tasman), on behalf of DCP Operating Company, LP (DCP), has prepared this Site Assessment Summary and Remediation Plan for the condensate and natural gas Release Site known as the Natural Gas Gathering Line TT-1 Line. Details of the release are summarized below:

RELEASE DETAILS			
<b>Type of Release:</b>	Natural Gas, Condensate	<b>Volume of Release:</b>	15 bbls
		<b>Volume Recovered:</b>	5 bbls
<b>Source of Release:</b>	12" Steel Gas Gathering Pipeline	<b>Date of Discovery:</b>	10/15/20
<b>Was Immediate Notice Given?</b>	Not Required	<b>If, YES, to Whom?</b>	N/A
<b>Was a Watercourse Reached?</b>	No	<b>If YES, Volume Impacting the Watercourse:</b>	N/A
<b>Surface Owner:</b>	Irvin Boyd	<b>Mineral Owner:</b>	NA
<b>Describe Cause of Problem and Remedial Action Taken:</b>			
A leak was discovered due to internal corrosion causing a hole in the pipe. Upon discovery of the release, operators were dispatched to the release location to shut-in the pipe line and recovered any available free liquids and recoverable materials that could be physically removed with a vacuum truck. Initial field observations of the release suggested that the volume of any associated hydrocarbon liquids (<1 barrel [bbls]) was below the NMOCD reporting threshold of 5 bbls. The pipe line was subsequently isolated and shut down. After further investigation, the release was conservatively estimated to be approximately 15 bbls and determined to trigger the NMOCD reporting threshold for a minor release. Therefore, the release was reported to NMOCD via email on November 9, 2020.			

A Site Characteristics Map is provided as Figure 1. General Site Photographs are provided in Appendix C. A Copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) is provided in Appendix D.



## REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste which occur during normal oilfield operations are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance and enforcement procedures. Table I of 19.15.29.12 NMAC defines the closure criteria for soils impacted by a release based on the depth to groundwater and the following site characteristics:

Site Characteristics		
Approximate Depth to Groundwater		~50 Ft.
Within 300 ft. of any continuously flowing or significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 500 ft. of a spring or private, domestic fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 1,000 ft. of any fresh water well?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the incorporated municipal boundaries or within a municipal well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within 300 ft. of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within an unstable area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

A search of a groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a one (1) mile radius of the Release Site and identify any registered water wells within a 1/2 mile of the Release Site. Based on a review of the water well data, the approximate average depth to groundwater in the vicinity of the Release Site was estimated to be approximately 50 feet below ground surface (bgs). Figure 1 illustrates the location of the registered water wells within the vicinity of the Release Site. The NMOSE database search findings and depth to groundwater results is provided in Appendix B.

The NMOCD Closure Criteria are as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

## Notes:

1) Soil closure criteria based on NMOCD Guidelines Title 19 Chapter 15 Part 29.

2) TPH calculated by adding GRO, DRO and MRO (Ext Hydrocarbons) concentrations.

\* Or other test methods approved by the NMOCD.

\*\* Numerical limits or natural background level, whichever is greater.

\*\*\* This applies to releases of produced water or other fluids, which may contain chloride.

GRO - Gasoline range organics

DRO - Diesel range organics

mg/kg - Milligrams per kilogram

mg/l - Milligrams per liter

TDS - Total dissolved solids

TPH - Total volatile and extractable petroleum hydrocarbons

## SITE ASSESSMENT SUMMARY

Between October 19 to November 6, 2020, Tasman, on behalf of DCP, conducted initial site assessment and remedial activities. On October 19, 2020, impacted soil at the suspected point of release was excavated to expose the pipeline that leaked and risers. Tasman personnel also advanced four (4) shallow hand auger borings (HA-1 to HA-4) to initially assess the horizontal and vertical extent of contaminants. The hand augers were advanced to depths of 1.5 feet bgs and soils were field screened for total petroleum hydrocarbons (TPHs) using a photoionization detector (PID). Based on the elevated PID readings, the initial extent of impacts was estimated to be approximately 93 feet by 38 feet (total surface area of approximately 3,500 square feet [sf]). The excavated soil was temporarily stockpile and/or direct loaded into haul trucks and hauled, under manifest, to a NMOCD approved disposal facility for disposal (approximately 700 cubic yards [cy] of impacted soils were removed).

During this period, Tasman returned to the Release Site on multiple occasions to continue excavating impacted soil. The excavated soil was temporarily stockpile and/or direct loaded into haul trucks and hauled, under manifest, to a NMOCD approved disposal facility for disposal (approximately 700 cubic yards [cy] of impacted soils were removed). During the initial remedial activities the southern two-thirds of the excavation (approximate surface area of 2,320 sf) was excavated to a depth of approximately 4-feet bgs and the northern one-third (approximate surface area of 780 sf) was excavated to a depth of approximately 12-feet bgs. Based on field observations and PID screening, soil at the bottom of the deeper excavation continued to exhibit elevated TPH concentrations and as such excavation activities were temporarily halted to perform further vertical assessment activities.

On November 6, 2020, Tasman returned to the Release Site to collect three (3) 5-point composite soil samples (two [Bottom-1@4' and Bottom-2@4'] from the base of the southern 4-feet bgs excavation area and one from the northern wall [North Wall] of the deeper excavation area) from the excavated area and submitted to the laboratory for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), TPH and chloride (Cl-) via methods EPA SW-846 8021B, 8015 M Ext. and SM4500 Cl-B, respectively. In addition, a test pit (Vertical-1) was vertically excavated near the center of the deeper excavation area to a depth of 20-feet bgs. Discrete soil samples were collected from the test pit at depths of 12-feet, 15-feet, 17-feet and 20-feet bgs, and subsequently submitted to the laboratory for analysis of BTEX, TPH and Cl- via methods EPA SW-846 8021B, 8015 M Ext. and SM4500 Cl-B, respectively. Laboratory analytical results indicated that benzene and/or TPH concentrations from the collected soil samples were above applicable NMOCD Closure Criteria (Table I) except for the northern wall sample. Groundwater was not encountered during initial assessment and remedial activities.

The locations of the initial excavation sidewall and bottom soil samples as well as the vertical test pit (Vertical-1) are presented on Figure 2. Table 1 provides a summary of field screening and laboratory analytical results from soil samples collected during the November 6, 2020 initial site assessment remedial activities. The laboratory analytical report is provided in Appendix D.

Table 1: Initial Field Screening and Soil Analytical Results

Concentrations of Benzene, BTEX, TPH and Cl- in Soil												
Sample ID	Date	Depth (feet)	Soil Status	PID Reading (ppm)	SW 846 8021B		SW 846 8015M Ext.					4500 C-B
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Vertical-1 @ 12'	11/5/2020	12	In situ	3195	<0.050	<0.300	13.3	604	617.3	103	<b>720.3</b>	208
Vertical-1 @ 15'	11/5/2020	15	In situ	4701	<0.050	10.5	297	3250	3547	520	<b>4067</b>	48
Vertical-1 @ 17'	11/5/2020	17	In situ	3034	<0.050	4.85	124	1880	2004	318	<b>2322</b>	48
Vertical-1 @ 20'	11/5/2020	20	In situ	3360	<b>15.9</b>	<b>515</b>	10900	28300	39200	4380	<b>43580</b>	<16.0
North Wall	11/5/2020	NA	In situ	11.2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Bottom-1 @ 4'	11/5/2020	4	In situ	38.2	<0.050	<0.300	15.9	3880	3895.9	723	<b>4618.9</b>	32
Bottom-2 @ 4'	11/5/2020	4	In situ	2.4	<0.050	<0.300	<10.0	466	466	126	<b>592</b>	48
<b>NMOCD Closure Criteria</b>					<b>10</b>	<b>50</b>	-	-	-	-	<b>100</b>	<b>600 (1)</b>

Notes:

1) Soil closure criteria based on NMOCD Guidelines Title 19 Chapter 15 Part 29. In accordance with these guidelines, horizontal and vertical delineation of impacted soils is required to Cl- concentrations less than 600 mg/kg. The NMOCD Closure Criteria for Cl- concentration in soils beneath 4 feet bgs is 600 mg/kg for this site.

2) TPH calculated by adding GRO, DRO and GRO EXT concentrations.

**Bold** - Indicates constituent concentration above respective NMOCD - NMAC Closure Criteria.

GRO - Gasoline range organics      DRO - Diesel range organics  
 mg/kg - Milligrams per kilogram      bgs - Below ground surface  
 NA - Not available      TPH - Total volatile and extractable petroleum hydrocarbons

## SOIL BORE DELINEATION

In an effort to further delineate the vertical and horizontal extent of TPH and Cl- soil impacts to NMOCD investigation criteria, DCP to the Release Site on February 9 and 10, 2021 to advance six (6) soil bores utilizing a hollow stem auger drilling rig. To provide drill rig access in the deeper excavation area, the excavation was temporarily backfilled with caliche to a depth of approximately 4-feet bgs. The soil borings were advanced to a depth at which field screening and laboratory results for BTEX, TPH and Cl- concentrations were below the NMOCD investigation criteria and then terminated. The total depth of the soil borings were 40-feet bgs for Soil Bore 1; 15-feet bgs for Soil Bore 2 and 3; and 10-feet bgs for Soil Bore 4, 5 and 6. Soil samples were collected at equal 5-foot intervals starting in native materials and field screened for TPH using a PID and chlorides using a Silver Nitrate Kit. In addition, select grab soil samples were submitted for laboratory analysis of BTEX, TPH and Cl- concentrations via methods EPA SW-846 8021B, 8015 M Ext. and SM4500 CL-B, respectively.

The soil boring locations are illustrated on Figure 3. Field screening and laboratory analytical results from the soil boring vertical delineation efforts are presented in Table 3. The laboratory analytical report is provided in Appendix D.

Table 2: Field Screening and Soil Analytical Results - Vertical Delineation Samples

Concentrations of Benzene, BTEX, TPH and Cl- in Soil												
Sample ID	Date	Depth (feet)	Soil Status	Field PID (ppm)	SW 846 8021B		SW 846 8015M Ext.					4500 C-B
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Sol Bore - 1 @ 25'	2/9/2021	25	In situ	215.4	<0.050	<0.300	<10.0	238	238	23.1	<b>261.1</b>	16.0
Sol Bore - 1 @ 30'	2/9/2021	30	In situ	114.5	NA	NA	NA	NA	NA	NA	NA	NA
Sol Bore - 1 @ 35'	2/9/2021	35	In situ	37.1	<0.050	<0.300	<10.0	159	159	20.2	<b>179.2</b>	16.0
Sol Bore - 1 @ 40'	2/9/2021	40	In situ	9.3	<0.050	<0.300	<10.0	40.9	40.9	<10.0	40.9	16.0
Sol Bore - 2 @ 10'	2/9/2021	10	In situ	5.1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
Sol Bore - 2 @ 15'	2/9/2021	15	In situ	3.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Sol Bore - 3 @ 10'	2/9/2021	10	In situ	1.5	<0.050	<0.300	<10.0	30.9	30.9	15.7	46.6	16.0
Sol Bore - 3 @ 15'	2/9/2021	15	In situ	0.9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Sol Bore - 4 @ Surface	2/10/2021	0	In situ	0.9	<0.050	<0.300	<10.0	1140	1140	239	<b>1379</b>	16.0
Sol Bore - 4 @ 5'	2/10/2021	5	In situ	0.7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
Sol Bore - 4 @ 10'	2/10/2021	10	In situ	1.4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Sol Bore - 5 @ Surface	2/10/2021	0	In situ	3.8	<0.050	<0.300	<10.0	108	108	<10.0	<b>108</b>	<16
Sol Bore - 5 @ 5'	2/10/2021	5	In situ	0.9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
Sol Bore - 5 @ 10'	2/10/2021	10	In situ	1.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Sol Bore - 6 @ Surface	2/10/2021	0	In situ	0.8	<0.050	<0.300	<10.0	67.2	67.2	<10.0	67.2	80.0
Sol Bore - 6 @ 5'	2/10/2021	5	In situ	0.8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Sol Bore - 6 @ 10'	2/10/2021	10	In situ	0.9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Closure Criteria					<b>10</b>	<b>50</b>	-	-	-	-	<b>100</b>	<b>600</b>

## Notes:

1) Soil closure criteria based on NMOCD Guidelines Title 19 Chapter 15 Part 29. In accordance with these guidelines, horizontal and vertical delineation of impacted soils is required to Cl- concentrations less than 600 mg/kg. The NMOCD Closure Criteria for Cl- concentration in soils beneath 4 feet bgs is 600 mg/kg for this site.

2) TPH calculated by adding GRO, DRO and GRO EXT concentrations.

**Bold** - Indicates constituent concentration above respective NMOCD - NMAC Closure Criteria.

GRO - Gasoline range organics

DRO - Diesel range organics

mg/kg - Milligrams per kilogram

bgs - Below ground surface

NA - Not available

TPH - Total volatile and extractable petroleum hydrocarbons

## REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the site assessment, DCP proposes the following remediation activities designed to advance the Release Site toward an NMOCD approved closure:

- Utilizing mechanical equipment, advance excavation vertically and horizontally in the areas exceeding benzene of 10 mg/kg, total BTEX of 50 mg/kg, and/or TPH of 100 mg/kg until laboratory analytical results from excavation confirmation soil samples indicate concentrations of benzene, total BTEX and TPH are below the NMOCD Closure Criteria. Based on the site assessment results, DCP anticipates the shallow 4-feet deep excavation area (approximately 2,319) will require further overexcavation to depths of approximately 8- to 10-feet bgs. The deeper 12-feet deep excavation area (approximately 780 sf) will require further over excavation to a depth of approximately 20-feet bgs over the entire area and approximately 35-feet bgs over an approximately 10-feet by 10-feet area centered around Soil Bore 1. Prior to

excavation in the deeper excavation area, the clean caliche placed in the excavation to 4-feet bgs will be removed, stockpiled on-site, and subsequently used as clean backfill. Excavations deeper than 20-feet will be designed and implemented following an Engineering Certified Excavation Plan that at a minimum meets OSHA requirements.

- Temporarily stockpile excavated impacted soil on-site, atop a poly liner, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon removal of impacted soil, the bottom and the sides of the excavation will be sampled with representative five-point composite soil samples as described in the Sampling Plan Section below.
- Upon receiving laboratory analytical results from confirmation soil samples below the NMOCD Closure Criteria, excavated areas will be backfilled with the on-site clean borrow soil and locally sourced, non-impacted "like" material to 4-feet bgs.
- From 4-feet bgs to ground surface, the excavation will be backfilled with non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. In addition, the top layer of the soil cover will be suitable material to establish vegetation which will either be the thickness of the background top soil thickness or 1-foot thick, whichever is greater. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.
- The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.
- A native seed mix acceptable to the property owner will be utilized for the revegetation of the Site. Upon approval from the property owner of the native seed mix, the mixture will be broadcast at a rate two (2) times the suggested rate to compensate for broadcasting of the seed and the seeding activities will take place during the next favorable growing season. Following the broadcasting of the seed, mechanical means, such as a screen or disc harrow pulled behind a tractor, will be used to "set" the seed.

## SAMPLING PLAN

Upon completion of remediation activities, representative five-point composite confirmation soil samples will be collected from the base and sidewalls of the remediated area, representing no more than 500 square feet. Soil composite confirmation samples will be submitted for laboratory analysis of BTEX, TPH and Cl- via methods EPA SW-846 8021B, 8015 M Ext. and SM4500 Cl-B. Additional "discrete" confirmation soil samples will be collected from any excavation grade changes and wet or visibly stained areas inferred to have been affected by the Release, if applicable.

## TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of this *Site Assessment Summary and Remediation Plan*. Based on laboratory analytical results, site characteristics and field observations made during the site assessment it is estimated that a total of approximately 1,500 cubic yards (700 cy has already been removed and disposed of) of soil has been affected above the NMOCD Closure Criteria.

If you have any questions, or if additional information is required, please feel free to contact Stephen Weathers or the undersigned by phone or email.

Kyle Norman  
Regional Project Manager  
Tasman Geosciences, Inc.

Phone: 575-318-5017

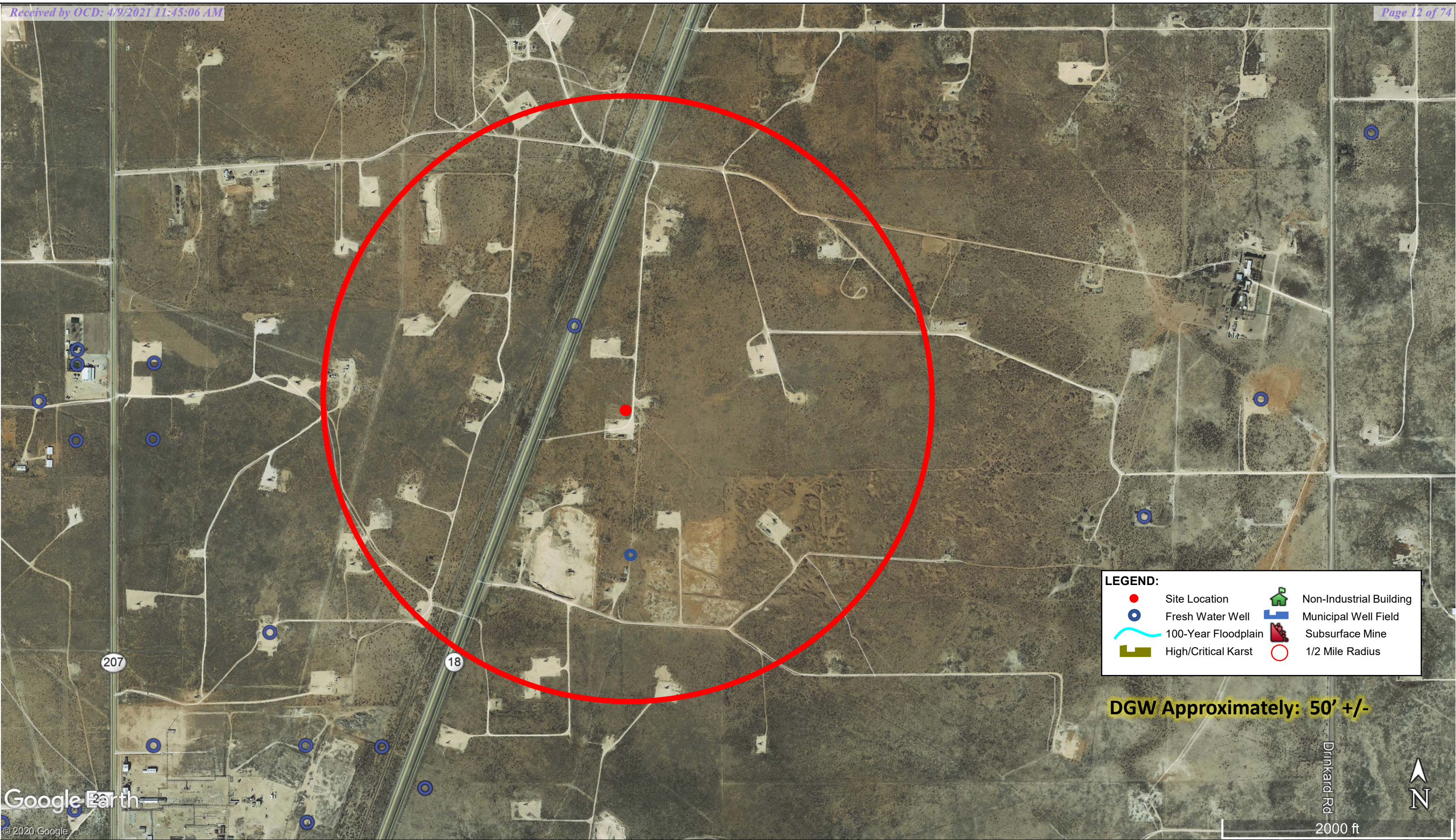
Email: knorman@tasman-geo.com

**Attachments:**

Figure 1:	Figure 1 - Site Characteristics Map
Figure 2:	Figure 2 - Sample Location Map
Figure 3:	Figure 3 - Soil Bore Location Map
Appendix A	Field Data
Appendix B	Depth to Groundwater Information
Appendix C	Photo Documentation
Appendix D	Laboratory Analytical Reports
Appendix E	Soil Boring Logs
Appendix F	Release Notification and Corrective Action (FORM C-141)

## **Figures**





DATE: October 2020

DESIGNED BY : KN

DRAWN BY: KN  
Released to Imaging: 7/27/2021 9:03:35 AM



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

**DCP Midstream  
TT-1 Line (10/15/2020)**  
GPS: 32.371750, -103.144930  
UL "P", Section 22, Township 22 South, Range 37 East  
Lea County, New Mexico

Site Characteristics  
Map


**Figure  
1**









DATE: February 2021	 <div><i>Tasman Geosciences, Inc.</i> <b>2620 W. Marland Blvd.</b> <b>Hobbs, NM 88240</b></div>	<b>DCP Midstream</b> <b>TT-1 Line (10/15/2020)</b> GPS: 32.371750, -103.144930 UL "P", Section 22, Township 22 South, Range 37 East Lea County, New Mexico	Soil Bore Location Map	<b>Figure 3</b>
DESIGNED BY : KN				
DRAWN BY: KN				



## **Appendices**

## **Appendix A**

### **Field Data**

N WALL

PID  
11.2

TT-1

11-5-20

BOTTOM  
@ 12'

3195 125.9

@ 15'

4701 820

@ 17'

3034 560

@ 20'

3360 75000

P.D

BOT-1  
@ 4'

38.2

BOT-2  
@ 4'

2.4



**Appendix B**  
**Depth to Groundwater Information**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00003 POD1</a>		CP	LE			4	22	22S	37E	674372	3583367*	243	142	110	32
<a href="#">CP 00009 POD2</a>		CP	LE	4	4	1	27	22S	37E	673883	3582253*	1119	90	52	38
<a href="#">CP 00231 POD2</a>		CP	LE	4	4	1	27	22S	37E	673883	3582253*	1119	97		
<a href="#">CP 00747 POD1</a>		CP	LE			1	27	22S	37E	673583	3582548*	1126	410		
<a href="#">CP 00007 POD1</a>		CP	LE				27	22S	37E	673999	3582146*	1152	182		
<a href="#">CP 00009 POD1</a>		CP	LE				27	22S	37E	673999	3582146*	1152	150		
<a href="#">CP 00010 POD1</a>		CP	LE				27	22S	37E	673999	3582146*	1152	135		
<a href="#">CP 00011 POD1</a>		CP	LE				27	22S	37E	673999	3582146*	1152	148		
<a href="#">CP 00244 POD2</a>		CP	LE	3	4	1	27	22S	37E	673683	3582253*	1244	87		
<a href="#">CP 00256 POD1</a>	R	CP	LE	1	3	3	22	22S	37E	673266	3583250*	1256	146		
<a href="#">CP 00257 POD1</a>		CP	LE	3	3	3	22	22S	37E	673266	3583050*	1260	136		
<a href="#">CP 00470</a>		CP	LE	2	1	2	26	22S	37E	675886	3582892*	1394	99	65	34
<a href="#">CP 00233 POD2</a>		CP	LE	1	2	3	27	22S	37E	673690	3582051*	1396	90		
<a href="#">CP 00243 POD2</a>		CP	LE	1	2	3	27	22S	37E	673690	3582051*	1396	90	54	36
<a href="#">CP 00081 POD1</a>		CP	LE	2	4	4	21	22S	37E	673064	3583243*	1457	120		
<a href="#">CP 01101 POD1</a>		CP	LE	2	4	4	21	22S	37E	673064	3583281	1460	142		
<a href="#">CP 00911</a>		CP	LE	4	4	4	21	22S	37E	673064	3583043*	1461	153		
<a href="#">CP 01177 POD1</a>		CP	LE	2	2	4	04	23S	37E	674308	3581663	1524	60	41	19
<a href="#">CP 00243 POD1</a>		CP	LE	3	3	1	27	22S	37E	673281	3582246*	1548	106		
<a href="#">CP 00503</a>		CP	LE		4	4	21	22S	37E	672965	3583144*	1555	115	65	50
<a href="#">CP 00277 POD1</a>		CP	LE	1	3	4	27	22S	37E	674099	3581656*	1575	95	50	45
<a href="#">CP 01621 POD2</a>		CP	LE	2	4	4	23	22S	37E	676190	3583206	1669	75		
<a href="#">CP 00232 POD1</a>		CP	LE	4	1	3	27	22S	37E	673488	3581844*	1683	150		
<a href="#">CP 00233 POD1</a>		CP	LE	4	1	3	27	22S	37E	673488	3581844*	1683	182		

\*UTM location was derived from PLSS - see Help

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

10/27/20 9:04 AM

Page 1 of 2

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

Average Depth to Water: 62 feet  
Minimum Depth: 41 feet  
Maximum Depth: 110 feet

Record Count: 24

UTMNAD83 Radius Search (in meters):

Easting (X): 674520      Northing (Y): 3583174      Radius: 1700



## **Appendix C**

### **Photo Documentation**

DCP Midstream  
TT-1 Line Leak (10/15/2020)





DCP Midstream  
TT-1 Line Leak (10/15/2020)





DCP Midstream  
TT-1 Line Leak (10/15/2020)





DCP Midstream  
TT-1 Line Leak (10/15/2020)





DCP Midstream  
TT-1 Line Leak (10/15/2020)



DCP Midstream  
TT-1 Line Leak (10/15/2020)



**Appendix D**  
**Laboratory Analytical Reports**





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

---

November 06, 2020

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP

Enclosed are the results of analyses for samples received by the laboratory on 11/05/20 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: V - 1 @ 12' (H002943-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	2.09	104	2.00	1.95	
Toluene*	<0.050	0.050	11/05/2020	ND	2.04	102	2.00	2.56	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	2.03	102	2.00	2.45	
<b>Total Xylenes*</b>	<b>0.213</b>	0.150	11/05/2020	ND	5.87	97.9	6.00	2.34	
Total BTX	<0.300	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	11/06/2020	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
<b>GRO C6-C10*</b>	<b>13.3</b>	10.0	11/06/2020	ND	233	117	200	3.71	
<b>DRO &gt;C10-C28*</b>	<b>604</b>	10.0	11/06/2020	ND	224	112	200	1.64	
<b>EXT DRO &gt;C28-C36</b>	<b>103</b>	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: V - 1 @ 15' (H002943-02)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	2.09	104	2.00	1.95	
Toluene*	<b>0.563</b>	0.050	11/05/2020	ND	2.04	102	2.00	2.56	
Ethylbenzene*	<b>1.92</b>	0.050	11/05/2020	ND	2.03	102	2.00	2.45	
Total Xylenes*	<b>8.00</b>	0.150	11/05/2020	ND	5.87	97.9	6.00	2.34	
Total BTEX	<b>10.5</b>	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 220 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	11/06/2020	ND	416	104	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*	<b>297</b>	50.0	11/06/2020	ND	233	117	200	3.71	
DRO >C10-C28*	<b>3250</b>	50.0	11/06/2020	ND	224	112	200	1.64	
EXT DRO >C28-C36	<b>520</b>	50.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 137 % 44.3-144

Surrogate: 1-Chlorooctadecane 173 % 42.2-156

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:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: V - 1 @ 17' (H002943-03)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	2.09	104	2.00	1.95	
Toluene*	<b>0.423</b>	0.050	11/05/2020	ND	2.04	102	2.00	2.56	
Ethylbenzene*	<b>0.877</b>	0.050	11/05/2020	ND	2.03	102	2.00	2.45	
Total Xylenes*	<b>3.55</b>	0.150	11/05/2020	ND	5.87	97.9	6.00	2.34	
Total BTX	<b>4.85</b>	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	11/06/2020	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*	<b>124</b>	10.0	11/06/2020	ND	233	117	200	3.71	
DRO >C10-C28*	<b>1880</b>	10.0	11/06/2020	ND	224	112	200	1.64	
EXT DRO >C28-C36	<b>318</b>	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 137 % 42.2-156

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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:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: V - 1 @ 20' (H002943-04)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>15.9</b>	2.00	11/05/2020	ND	2.09	104	2.00	1.95	
<b>Toluene*</b>	<b>128</b>	2.00	11/05/2020	ND	2.04	102	2.00	2.56	
<b>Ethylbenzene*</b>	<b>93.3</b>	2.00	11/05/2020	ND	2.03	102	2.00	2.45	
<b>Total Xylenes*</b>	<b>278</b>	6.00	11/05/2020	ND	5.87	97.9	6.00	2.34	
<b>Total BTX</b>	<b>515</b>	12.0	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.3-129

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	11/06/2020	ND	416	104	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
<b>GRO C6-C10*</b>	<b>10900</b>	100	11/06/2020	ND	233	117	200	3.71	
<b>DRO &gt;C10-C28*</b>	<b>28300</b>	100	11/06/2020	ND	224	112	200	1.64	
<b>EXT DRO &gt;C28-C36</b>	<b>4380</b>	100	11/06/2020	ND					

Surrogate: 1-Chlorooctane 460 % 44.3-144

Surrogate: 1-Chlorooctadecane 633 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: BOTTOM - 1 @ 4' (H002943-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2020	ND	2.09	104	2.00	1.95		
Toluene*	0.053	0.050	11/05/2020	ND	2.04	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	2.03	102	2.00	2.45		
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.87	97.9	6.00	2.34		
Total BTEx	<0.300	0.300	11/05/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/06/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.9	10.0	11/06/2020	ND	233	117	200	3.71	
DRO >C10-C28*	3880	10.0	11/06/2020	ND	224	112	200	1.64	
EXT DRO >C28-C36	723	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 184 % 42.2-156

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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:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: BOTTOM - 2 @ 4' (H002943-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	2.09	104	2.00	1.95	
Toluene*	<0.050	0.050	11/05/2020	ND	2.04	102	2.00	2.56	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	2.03	102	2.00	2.45	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.87	97.9	6.00	2.34	
Total BTX	<0.300	0.300	11/05/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

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	11/06/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2020	ND	233	117	200	3.71	
DRO >C10-C28*	466	10.0	11/06/2020	ND	224	112	200	1.64	
EXT DRO >C28-C36	126	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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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:	11/05/2020	Sampling Date:	11/05/2020
Reported:	11/06/2020	Sampling Type:	Soil
Project Name:	DCP	Sampling Condition:	Cool & Intact
Project Number:	TT - 1 LINE LEAK ( 10-15-2020 )	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: NORTH WALL (H002943-07)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/05/2020	ND	2.09	104	2.00	1.95		
Toluene*	<0.050	0.050	11/05/2020	ND	2.04	102	2.00	2.56		
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	2.03	102	2.00	2.45		
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.87	97.9	6.00	2.34		
Total BTX	<0.300	0.300	11/05/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

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	11/06/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2020	ND	233	117	200	3.71	
DRO >C10-C28*	<10.0	10.0	11/06/2020	ND	224	112	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	11/06/2020	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





---

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager





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February 10, 2021

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP TT-1 LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/09/21 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	02/09/2021	Sampling Date:	02/09/2021
Reported:	02/10/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 1 @ 25' (H210335-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2021	ND	2.24	112	2.00	0.494	
Toluene*	<0.050	0.050	02/09/2021	ND	2.21	111	2.00	0.845	
Ethylbenzene*	<0.050	0.050	02/09/2021	ND	2.18	109	2.00	0.312	
Total Xylenes*	<0.150	0.150	02/09/2021	ND	6.36	106	6.00	0.0614	
Total BTEX	<0.300	0.300	02/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/10/2021	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	02/09/2021	ND	242	121	200	4.11	
DRO >C10-C28*	238	10.0	02/09/2021	ND	233	117	200	4.28	
EXT DRO >C28-C36	23.1	10.0	02/09/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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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:	02/09/2021	Sampling Date:	02/09/2021
Reported:	02/10/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 1 @ 35' (H210335-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2021	ND	2.24	112	2.00	0.494	
Toluene*	<0.050	0.050	02/09/2021	ND	2.21	111	2.00	0.845	
Ethylbenzene*	<0.050	0.050	02/09/2021	ND	2.18	109	2.00	0.312	
Total Xylenes*	<0.150	0.150	02/09/2021	ND	6.36	106	6.00	0.0614	
Total BTX	<0.300	0.300	02/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	02/10/2021	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	02/09/2021	ND	242	121	200	4.11	
DRO >C10-C28*	159	10.0	02/09/2021	ND	233	117	200	4.28	
EXT DRO >C28-C36	20.2	10.0	02/09/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

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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:	02/09/2021	Sampling Date:	02/09/2021
Reported:	02/10/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 2 @ 10' (H210335-06)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2021	ND	2.24	112	2.00	0.494		
Toluene*	<0.050	0.050	02/09/2021	ND	2.21	111	2.00	0.845		
Ethylbenzene*	<0.050	0.050	02/09/2021	ND	2.18	109	2.00	0.312		
Total Xylenes*	<0.150	0.150	02/09/2021	ND	6.36	106	6.00	0.0614		
Total BTX	<0.300	0.300	02/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	02/10/2021	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	02/09/2021	ND	242	121	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/09/2021	ND	233	117	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	02/09/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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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:	02/09/2021	Sampling Date:	02/09/2021
Reported:	02/10/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 2 @ 15' (H210335-07)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2021	ND	2.24	112	2.00	0.494		
Toluene*	<0.050	0.050	02/09/2021	ND	2.21	111	2.00	0.845		
Ethylbenzene*	<0.050	0.050	02/09/2021	ND	2.18	109	2.00	0.312		
Total Xylenes*	<0.150	0.150	02/09/2021	ND	6.36	106	6.00	0.0614		
Total BTX	<0.300	0.300	02/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/10/2021	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	02/09/2021	ND	242	121	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/09/2021	ND	233	117	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	02/09/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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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:	02/09/2021	Sampling Date:	02/09/2021
Reported:	02/10/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 3 @ 10' (H210335-13)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2021	ND	2.24	112	2.00	0.494		
Toluene*	<0.050	0.050	02/09/2021	ND	2.21	111	2.00	0.845		
Ethylbenzene*	<0.050	0.050	02/09/2021	ND	2.18	109	2.00	0.312		
Total Xylenes*	<0.150	0.150	02/09/2021	ND	6.36	106	6.00	0.0614		
Total BTX	<0.300	0.300	02/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/10/2021	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	02/09/2021	ND	242	121	200	4.11	
DRO >C10-C28*	30.9	10.0	02/09/2021	ND	233	117	200	4.28	
EXT DRO >C28-C36	15.7	10.0	02/09/2021	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

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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:	02/09/2021	Sampling Date:	02/09/2021
Reported:	02/10/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 3 @ 15' (H210335-14)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2021	ND	2.24	112	2.00	0.494		
Toluene*	<0.050	0.050	02/09/2021	ND	2.21	111	2.00	0.845		
Ethylbenzene*	<0.050	0.050	02/09/2021	ND	2.18	109	2.00	0.312		
Total Xylenes*	<0.150	0.150	02/09/2021	ND	6.36	106	6.00	0.0614		
Total BTX	<0.300	0.300	02/09/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	02/10/2021	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	02/09/2021	ND	242	121	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/09/2021	ND	233	117	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	02/09/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



## CARDINAL LABORATORIES

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

BILL TO

1 of 3

ANALYSIS REQUEST

Company Name: Tasman Geosciences, LLC

Project Manager: Kyle Norman

Address: 2620 W Marland Blvd

State: NM Zip: 88240

City: Hobbs

Phone #: 575-318-5017

Fax #:

Project #: NRM2032828643

Project Owner: DCP Midstream

Project Name: DCP

Project Location: TT-1 Line (10-15-2020)

Sampler Name: Becky Griffin

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME





# CARDINAL LABORATORIES

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 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

BILL TO

2 of 3

ANALYSIS REQUEST

Company Name: Tasman Geosciences, LLC

Project Manager: Kyle Norman

Address: 2620 W Marland Blvd

State: NM Zip: 88240

City: Hobbs

Phone #: 575-318-5017

Fax #: Project Owner: DCP Midstream

Project #: NRM2032828643

Project Name: DCP

Project Location: TT-1 Line (10-15-2020)

Sampler Name: Becky Griffin

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

TPH 8015 M

BTEX

Texas TPH

CompleteCations/Anions

TDS

HOLD

RUSH

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Relinquished By:

Date: 2-9-21

Received By:

Relinquished By: *Becky Griffin*

Date: 2-9-21

Received By: *Becky Griffin*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: - OLC #113

Sample Condition  
Cool ☒ Yes ☐ No  
Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

REMARKS:  
 email results to: knorman@tasman-geo.com,  
 bgiffin@tasman-geo.com, Cook, John W  
 <JWCook@dcpmidstream.com> Hyman, Albert L  
 <ALHyman@dcpmidstream.com> Hyman, Janice L  
 <JHyman@dcpmidstream.com>

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





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

**BILL TO**

W  
O  
W

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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February 16, 2021

KYLE NORMAN

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP TT-1 LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/10/21 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	02/10/2021	Sampling Date:	02/10/2021
Reported:	02/16/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 4 @ SURFACE (H210359-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2021	ND	2.31	116	2.00	1.13	
Toluene*	<0.050	0.050	02/11/2021	ND	2.34	117	2.00	0.0767	
Ethylbenzene*	<0.050	0.050	02/11/2021	ND	2.21	110	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/11/2021	ND	6.43	107	6.00	1.17	
Total BTEX	<0.300	0.300	02/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/11/2021	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	02/11/2021	ND	225	112	200	0.508	
DRO >C10-C28*	1140	10.0	02/11/2021	ND	225	113	200	1.47	
EXT DRO >C28-C36	239	10.0	02/11/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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:	02/10/2021	Sampling Date:	02/10/2021
Reported:	02/16/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 4 @ 5' (H210359-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2021	ND	2.31	116	2.00	1.13		
Toluene*	<0.050	0.050	02/11/2021	ND	2.34	117	2.00	0.0767		
Ethylbenzene*	<0.050	0.050	02/11/2021	ND	2.21	110	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/11/2021	ND	6.43	107	6.00	1.17		
Total BTEX	<0.300	0.300	02/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/11/2021	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	02/11/2021	ND	225	112	200	0.508	
DRO >C10-C28*	<10.0	10.0	02/11/2021	ND	225	113	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	02/11/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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\*=Accredited Analyte

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Mike Snyder For 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: 02/10/2021  
 Reported: 02/16/2021  
 Project Name: DCP TT-1 LINE  
 Project Number: NRM2032828643 (10-15-2020)  
 Project Location: NONE GIVEN

Sampling Date: 02/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SOIL BORE - 4 @ 10' (H210359-03)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2021	ND	1.98	99.0	2.00	6.98		
Toluene*	<0.050	0.050	02/15/2021	ND	2.04	102	2.00	6.58		
Ethylbenzene*	<0.050	0.050	02/15/2021	ND	2.22	111	2.00	6.61		
Total Xylenes*	<0.150	0.150	02/15/2021	ND	6.60	110	6.00	5.84		
Total BTEX	<0.300	0.300	02/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/15/2021	ND	384	96.0	400	4.08		

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Mike Snyder For 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:	02/10/2021	Sampling Date:	02/10/2021
Reported:	02/16/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 5 @ SURFACE (H210359-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2021	ND	2.31	116	2.00	1.13	
Toluene*	<0.050	0.050	02/11/2021	ND	2.34	117	2.00	0.0767	
Ethylbenzene*	<0.050	0.050	02/11/2021	ND	2.21	110	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/11/2021	ND	6.43	107	6.00	1.17	
Total BTX	<0.300	0.300	02/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	02/11/2021	ND	416	104	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	02/11/2021	ND	225	112	200	0.508	
DRO >C10-C28*	108	10.0	02/11/2021	ND	225	113	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	02/11/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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\*=Accredited Analyte

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Mike Snyder For 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:	02/10/2021	Sampling Date:	02/10/2021
Reported:	02/16/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 5 @ 5' (H210359-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2021	ND	2.31	116	2.00	1.13	
Toluene*	<0.050	0.050	02/11/2021	ND	2.34	117	2.00	0.0767	
Ethylbenzene*	<0.050	0.050	02/11/2021	ND	2.21	110	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/11/2021	ND	6.43	107	6.00	1.17	
Total BTX	<0.300	0.300	02/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	02/11/2021	ND	416	104	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	02/11/2021	ND	225	112	200	0.508	
DRO >C10-C28*	<10.0	10.0	02/11/2021	ND	225	113	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	02/11/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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\*=Accredited Analyte

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Mike Snyder For 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: 02/10/2021  
 Reported: 02/16/2021  
 Project Name: DCP TT-1 LINE  
 Project Number: NRM2032828643 (10-15-2020)  
 Project Location: NONE GIVEN

Sampling Date: 02/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SOIL BORE - 5 @ 10' (H210359-12)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2021	ND	1.98	99.0	2.00	6.98		
Toluene*	<0.050	0.050	02/15/2021	ND	2.04	102	2.00	6.58		
Ethylbenzene*	<0.050	0.050	02/15/2021	ND	2.22	111	2.00	6.61		
Total Xylenes*	<0.150	0.150	02/15/2021	ND	6.60	110	6.00	5.84		
Total BTEX	<0.300	0.300	02/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/15/2021	ND	384	96.0	400	4.08	

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Mike Snyder For 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:	02/10/2021	Sampling Date:	02/10/2021
Reported:	02/16/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 6 @ SURFACE (H210359-19)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2021	ND	2.31	116	2.00	1.13	
Toluene*	<0.050	0.050	02/11/2021	ND	2.34	117	2.00	0.0767	
Ethylbenzene*	<0.050	0.050	02/11/2021	ND	2.21	110	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/11/2021	ND	6.43	107	6.00	1.17	
Total BTX	<0.300	0.300	02/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/11/2021	ND	416	104	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	02/11/2021	ND	212	106	200	1.51	
DRO >C10-C28*	67.2	10.0	02/11/2021	ND	222	111	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	02/11/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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:	02/10/2021	Sampling Date:	02/10/2021
Reported:	02/16/2021	Sampling Type:	Soil
Project Name:	DCP TT-1 LINE	Sampling Condition:	Cool & Intact
Project Number:	NRM2032828643 (10-15-2020)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SOIL BORE - 6 @ 5' (H210359-20)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2021	ND	2.31	116	2.00	1.13		
Toluene*	<0.050	0.050	02/11/2021	ND	2.34	117	2.00	0.0767		
Ethylbenzene*	<0.050	0.050	02/11/2021	ND	2.21	110	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/11/2021	ND	6.43	107	6.00	1.17		
Total BTX	<0.300	0.300	02/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	02/11/2021	ND	416	104	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	02/11/2021	ND	212	106	200	1.51	
DRO >C10-C28*	<10.0	10.0	02/11/2021	ND	222	111	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	02/11/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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: 02/10/2021  
 Reported: 02/16/2021  
 Project Name: DCP TT-1 LINE  
 Project Number: NRM2032828643 (10-15-2020)  
 Project Location: NONE GIVEN

Sampling Date: 02/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SOIL BORE - 6 @ 10' (H210359-21)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2021	ND	1.98	99.0	2.00	6.98		
Toluene*	<0.050	0.050	02/15/2021	ND	2.04	102	2.00	6.58		
Ethylbenzene*	<0.050	0.050	02/15/2021	ND	2.22	111	2.00	6.61		
Total Xylenes*	<0.150	0.150	02/15/2021	ND	6.60	110	6.00	5.84		
Total BTEX	<0.300	0.300	02/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

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	02/15/2021	ND	384	96.0	400	4.08		

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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5  
21/5/21





101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(505) 393-2326 FAX (505) 393-2416 (205) 615-1001 TASMAN GEOSCIENCES, LLC

BILL TO

ANALYSIS REQUEST

Company Name: Tasman Geosciences, LLC

Project Manager: Kyle Norman

Address: 2620 W Marland Blvd

City: Hobbs

Phone #: 575-318-5017

Project #: NRM2032828643

Project Name: DCP

Project Location: TT-1 Line (10-15-2020)

Sampler Name: Becky Griffin

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING	DATE	TIME
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HAI0359											
19	Soil Bore - 6 @ Surface	1	✓							2/10/21	
20	Soil Bore - 6 @ 5'	1	✓							2/10/21	
21	Soil Bore - 6 @ 10'	1	✓							2/10/21	
22	Soil Bore - 6 @ 15'	1	✓							2/10/21	
23	Soil Bore - 6 @ 20'	1	✓							2/10/21	
24	Soil Bore - 6 @ 25'	1	✓							2/10/21	
25	Soil Bore - 6 @ 30'	1	✓							2/10/21	
26	Soil Bore - 6 @ 35'	1	✓							2/10/21	
27	Soil Bore - 6 @ 40'	1	✓							2/10/21	

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Relinquished By: \_\_\_\_\_ Date: 2-10-21 Received By: \_\_\_\_\_  
Time: 1425  
Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Reinquinshed By: \_\_\_\_\_  
*[Signature]*

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>VJ</i>
--	--	--

1.7c #113

email results to: knorman@tasman-geo.com,  
bgiffin@tasman-geo.com, Cook, John W  
<JWCook@dcpmidstream.com>  
<ALHyman@dcpmidstream.com>  
<JHymen@dcpmidstream.com>

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

**Appendix E**  
**Soil Boring Log**



TASMAN GEOSCIENCES		Borehole Logging Form					
SOIL BORE 1		SITE NAME: JT-1 (10-15-2020)			CLIENT NAME: DCP		
Date Started: 2-9-21		Location:					
Date Completed: 2-9-21		TOC Elevation: NA		DTW:			
Type of Drill: AIR ROTARY		Geologist: PROJECT NUMBER NRM2032828643					
Bit Size: 6"		Project Manager: KYLE NORMAN					
Drilling Company: HCL DRILLING							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
25'					25'		REDDISH-ORANGE SAND
30'					30'		REDDISH ORANGE SAND W/ VERY WELL CEMENTED SAND STONE
35'					35'		SAND W/ VERY WELL CEMENTED SAND STONE
40'					40'		SAND W/ VERY WELL CEMENTED SAND STONE
45'					45'		SAND W/ VERY WELL CEMENTED SAND STONE
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

TASMAN GEOSCIENCES		Borehole Logging Form					
SOIL BORE 2		SITE NAME: TT-1 LINE (10-15-20)			CLIENT NAME: DCP		
Date Started: 2-9-21		Location:					
Date Completed: 2-9-21		TOC Elevation: NA		DTW:			
Type of Drill: AIR ROTARY		PROJECT NUMBER NRM2032828643					
Bit Size: 6"		Project Manager: KYLE NORMAN					
Drilling Company: HCI DRILLING							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
10'							WHITE - CALICHE
15'							REDDISH ORANGE SAND
20'							REDDISH ORANGE SAND
25'							REDDISH ORANGE SAND
30'							REDDISH ORANGE SAND
35'							REDDISH ORANGE (LT) SAND W/VERY WELL CEMENTED SAND STONE
40'							VERY LT REDDISH ORANGE SAND W/VERY WELL CEMENTED SAND STONE
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							



TASMAN GEOSCIENCES		Borehole Logging Form					
SOIL BORE 3		SITE NAME: TT-1 LINE (10-15-20)			CLIENT NAME: DCP		
Date Started: 2-9-21		Location:					
Date Completed: 2-9-21		TOC Elevation: NA		DTW:			
Type of Drill: AIR ROTARY		PROJECT NUMBER NRM2032828643					
Bit Size: 6"		Project Manager: KYLE NORMAN					
Drilling Company: HCI DRILLING							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
10'							WHITE - CALICHE
15'							REDDISH ORANGE SAND
20'							REDDISH ORANGE SAND
25'							REDDISH ORANGE SAND
30'							REDDISH ORANGE SAND
35'							REDDISH ORANGE (LT) SAND W/VERY WELL CEMENTED SAND STONE
40'							VERY LT REDDISH ORANGE SAND W/VERY WELL CEMENTED SAND STONE
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							



TASMAN GEOSCIENCES		Borehole Logging Form					
SOIL BORE 4		SITE NAME: TT-1 LINE (10-15-2020)			CLIENT NAME: DCP		
Date Started: 2-10-21		Location:					
Date Completed: 2-10-21		TOC Elevation: NA		DTW:			
Type of Drill: AIR ROTARY		PROJECT NUMBER NRM2032828643					
Bit Size: 10"		Project Manager: KYLE NORMAN					
Drilling Company: HCL DRILLING							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
SURFACE							REDDISH BROWN TOP SOIL
5'							WHITE CALICHE
10'							WHITE CALICHE
15'							WHITE CALICHE
20'							WHITE CALICHE
25'							REDDISH-ORANGE SAND
30'							REDDISH-ORANGE SAND
35'							REDDISH-ORANGE SAND
40'							LIGHT REDDISH-ORANGE SAND W/ VERY WELL CEMENTED SAND STONE
							LIGHT REDDISH-ORANGE SAND W/ VERY WELL CEMENTED SAND STONE
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							



TASMAN GEOSCIENCES		Borehole Logging Form					
SOIL BORE 5		SITE NAME: TT-1 LINE (10-15-2020)			CLIENT NAME: DCP		
Date Started: 2-10-21		Location:					
Date Completed: 2-10-21		TOC Elevation: NA		DTW:			
Type of Drill: AIR ROTARY		PROJECT NUMBER NRM2032828643					
Bit Size: 6"		Project Manager: KYLE NORMAN					
Drilling Company: HCI DRILLING							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
SURFACE							REDDISH BROWN TOP SOIL
2							
5							WHITE CALICHE
3							
10							WHITE CALICHE
4							
15							WHITE CALICHE
5							
20							WHITE CALICHE
6							
25							REDDISH-ORANGE SAND
7							
30							REDDISH-ORANGE SAND
8							
35							REDDISH-ORANGE SAND
9							
40							LIGHT REDDISH-ORANGE SAND W/ VERY WELL CEMENTED SAND STONE
10							
11							
12							
13							
14							
15							
16							
17							
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20							
21							
22							
23							
24							
25							



TASMAN GEOSCIENCES		Borehole Logging Form					
SOIL BORE 6		SITE NAME: TT-1 LINE (10-15-2020)			CLIENT NAME: DCP		
Date Started: 2-10-21		Location:					
Date Completed: 2-10-21		TOC Elevation: NA		DTW:			
Type of Drill: AIR ROTARY		PROJECT NUMBER NRM2032828643					
Bit Size: 6"		Project Manager: KYLE NORMAN					
Drilling Company: HCL DRILLING							
Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
SURFACE							REDDISH BROWN TOP SOIL
2							
5							WHITE CALICHE
3							
10							WHITE CALICHE
4							
15							WHITE CALICHE
5							
20							WHITE CALICHE
6							
25							REDDISH-ORANGE SAND
7							
30							REDDISH-ORANGE SAND
8							
35							REDDISH-ORANGE SAND
9							
40							LIGHT REDDISH-ORANGE SAND W/ VERY WELL CEMENTED SAND STONE
10							
15							LIGHT REDDISH-ORANGE SAND W/ VERY WELL CEMENTED SAND STONE
11							
12							
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24							
25							

**Appendix F**  
**C-141 Release Notification**

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	DCP Midstream, L.P.	OGRID	36785
Contact Name	Stephen W. Weathers	Contact Telephone	(303) 605-1718
Contact email	SWWeathers@dcpmidstream.com	Incident #	(assigned by OCD)
Contact mailing address	370 17 <sup>th</sup> St, Suite 2500, Denver, CO 80202		

### Location of Release Source

Latitude 32.371750 Longitude -103.144930  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	TT-1 Line	Site Type	12" Steel Gas Gathering Pipeline
Date Release Discovered	10/15/2020	API#	(if applicable)

Unit Letter	Section	Township	Range	County
P	22	22S	37E	Lea

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

### 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) 15	Volume Recovered (bbls) 5
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) Unknown	Volume Recovered (Mcf) Unknown
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A leak was discovered due to internal corrosion causing a hole in the pipe. Operators were dispatched to shut in line. The line is isolated and has been shut down.



Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kyle Norman</u>	Title: <u>Regional Project Manager</u>
Signature: <u>Kyle Norman</u>	Date: <u>11/09/2020</u>
email: <u>knorman@tasman-geo.com</u>	Telephone: <u>(575) 318-5017</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____	

**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 23596

**CONDITIONS**

Operator: DCP OPERATING COMPANY, LP 370 17th Street, Suite 2500 Denver, CO 80202	OGRID: 36785
	Action Number: 23596
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	None	7/27/2021