

January 18, 2017

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

RE: DCP - BE-7-4 LOOP

Enclosed are the results of analyses for samples received by the laboratory on 01/18/17 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 TASMAN GEOSCIENCES  
 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

Received:	01/18/2017	Sampling Date:	01/18/2017
Reported:	01/18/2017	Sampling Type:	Soil
Project Name:	DCP - BE-7-4 LOOP	Sampling Condition:	Cool & Intact
Project Number:	BE-7-4 LOOP	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SS 01 @ 7' (H700117-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	<0.300	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.6-140

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	01/18/2017	ND	207	103	200	8.30	
<b>DRO &gt;C10-C28</b>	<b>12.2</b>	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 73.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TASMAN GEOSCIENCES  
 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 02 @ 7' (H700117-02)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	01/18/2017	ND	207	103	200	8.30		
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39		

Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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 TASMAN GEOSCIENCES  
 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 03 @ 7' (H700117-03)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

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	01/18/2017	ND	207	103	200	8.30		
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39		

Surrogate: 1-Chlorooctane 93.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.7 % 28-171

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 TASMAN GEOSCIENCES  
 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 04 @ 7' (H700117-04)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.055</b>	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
<b>Toluene*</b>	<b>0.304</b>	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
<b>Ethylbenzene*</b>	<b>0.103</b>	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
<b>Total Xylenes*</b>	<b>0.710</b>	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
<b>Total BTEX</b>	<b>1.17</b>	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

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	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 87.4 % 35-147

Surrogate: 1-Chlorooctadecane 80.6 % 28-171

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 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 05 @ 7' (H700117-05)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>61.1</b>	2.00	01/18/2017	ND	1.87	93.7	2.00	0.661	
<b>Toluene*</b>	<b>285</b>	2.00	01/18/2017	ND	1.85	92.6	2.00	0.536	
<b>Ethylbenzene*</b>	<b>65.6</b>	2.00	01/18/2017	ND	1.87	93.7	2.00	0.354	
<b>Total Xylenes*</b>	<b>300</b>	6.00	01/18/2017	ND	5.31	88.5	6.00	0.366	
<b>Total BTEX</b>	<b>712</b>	12.0	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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>11000</b>	100	01/18/2017	ND	207	103	200	8.30		
<b>DRO &gt;C10-C28</b>	<b>529</b>	100	01/18/2017	ND	209	104	200	5.39		

Surrogate: 1-Chlorooctane 173 % 35-147

Surrogate: 1-Chlorooctadecane 81.1 % 28-171

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 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 06 @ 7' (H700117-06)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

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>22.8</b>	10.0	01/18/2017	ND	207	103	200	8.30		
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39		

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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 TASMAN GEOSCIENCES  
 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BS 01 @ 14' (H700117-07)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>15.2</b>	0.500	01/18/2017	ND	1.87	93.7	2.00	0.661	
<b>Toluene*</b>	<b>76.1</b>	0.500	01/18/2017	ND	1.85	92.6	2.00	0.536	
<b>Ethylbenzene*</b>	<b>19.0</b>	0.500	01/18/2017	ND	1.87	93.7	2.00	0.354	
<b>Total Xylenes*</b>	<b>85.7</b>	1.50	01/18/2017	ND	5.31	88.5	6.00	0.366	
<b>Total BTEX</b>	<b>196</b>	3.00	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	01/18/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1920</b>	10.0	01/18/2017	ND	207	103	200	8.30	
<b>DRO &gt;C10-C28</b>	<b>104</b>	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 87.7 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TASMAN GEOSCIENCES  
 BRIAN HUMPHREY  
 6899 PECOS ST. UNIT C  
 DENVER CO, 80221  
 Fax To:

 Received: 01/18/2017  
 Reported: 01/18/2017  
 Project Name: DCP - BE-7-4 LOOP  
 Project Number: BE-7-4 LOOP  
 Project Location: CARLSBAD, NM

 Sampling Date: 01/18/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BS 02 @ 14' (H700117-08)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.121</b>	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661		
<b>Toluene*</b>	<b>0.221</b>	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
<b>Total BTEX</b>	<b>0.342</b>	0.300	01/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

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>14.1</b>	10.0	01/18/2017	ND	207	103	200	8.30		
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39		

Surrogate: 1-Chlorooctane 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**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.
- 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, 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

RUST

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

**Company Name:** DCP Midstream  
**Project Manager:** Brian Humphrey / Hack Conder  
**Address:**  
**City:** State: Zip:  
**Phone #:** Fax #:  
**Project #:** Project Owner:  
**Project Name:**  
**Project Location:** BE-7-4 Loop  
**Sampler Name:** Kyle Norman  
**FOR LAB USE ONLY**

**P.O. #:**  
**Company:** Tasman  
**Attn:** Brian Humphrey  
**Address:** 6899 Pecos St. Unit C  
**City:** Denver  
**State:** CO **Zip:** 80221  
**Phone #:** 303-487-1228  
**Fax #:**

**BILL TO** **ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
H10017																	
1	SS 01 @ 7'	G	1							1-18-17	8:45						
2	SS 02 @ 7'	G	1								8:55						
3	SS 03 @ 7'	G	1								9:00						
4	SS 04 @ 7'	G	1								9:05						
5	SS 05 @ 7'	G	1								9:10						
6	SS 06 @ 7'	G	1								9:15						
7	BS 01 @ 14'	G	1								9:20						
8	BS 02 @ 14'	G	1								9:25						

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**Relinquished By:** *hkn* **Date:** 1-18-17 **Received By:** *Spadic Peterson*  
**Time:** 11:25  
**Relinquished By:** *hkn* **Date:** **Received By:** *Spadic Peterson*

**Delivered By:** (Circle One) **UPS** **Other:** *2.88c*  
**Sample Condition:** Cool  Yes  No Intact  Yes  No  
**CHECKED BY:** *hkn*

**Phone Result:**  Yes  No **Add'l Phone #:**  
**Fax Result:**  Yes  No **Add'l Fax #:**  
**REMARKS:**  
 email results: *575-318-5017 Verbal*  
 bhumphrey@tasman-geo.com hpcorder@dcpmidstream.com  
 swweathers@dcpmidstream.com knorman@tasman-geo.com

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