

July 19, 2016

JON BEBBINGTON

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: LOVINGTON DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 07/13/16 14:37.

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.

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:

DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483

Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: 1 (H601578-01)

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	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89	

Surrogate: 1-Chlorooctane 78.5 % 35-147

Surrogate: 1-Chlorooctadecane 73.5 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483

Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: 2 (H601578-02)

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	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	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	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89	

Surrogate: 1-Chlorooctane 84.1 % 35-147

Surrogate: 1-Chlorooctadecane 79.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483

Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: 3 (H601578-03)

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	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	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	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89	

Surrogate: 1-Chlorooctane 71.1 % 35-147

Surrogate: 1-Chlorooctadecane 68.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483

Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: H1 (H601578-04)

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	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89	

Surrogate: 1-Chlorooctane 70.2 % 35-147

Surrogate: 1-Chlorooctadecane 65.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483

Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: H2 (H601578-05)

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	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	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	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89	

Surrogate: 1-Chlorooctane 70.8 % 35-147

Surrogate: 1-Chlorooctadecane 67.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483

Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: H3 (H601578-06)

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	07/14/2016	ND	2.05	102	2.00	0.758	
Toluene*	<0.050	0.050	07/14/2016	ND	2.20	110	2.00	0.562	
Ethylbenzene*	<0.050	0.050	07/14/2016	ND	2.15	107	2.00	0.497	
Total Xylenes*	<0.150	0.150	07/14/2016	ND	6.48	108	6.00	0.501	
Total BTEX	<0.300	0.300	07/14/2016	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	07/14/2016	ND	178	88.9	200	3.28	
DRO >C10-C28	<10.0	10.0	07/14/2016	ND	188	93.9	200	3.89	

Surrogate: 1-Chlorooctane 59.6 % 35-147

Surrogate: 1-Chlorooctadecane 56.9 % 28-171

Sample ID: 1 (H601578-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/15/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:DCP Midstream - Midland
JON BEBBINGTON
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: NoneReceived: 07/13/2016
Reported: 07/19/2016
Project Name: LOVINGTON DISCHARGE
Project Number: NONE GIVEN
Project Location: HWY 483Sampling Date: 07/13/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson**Sample ID: 2 (H601578-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/15/2016	ND	400	100	400	3.92		

Sample ID: 3 (H601578-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/15/2016	ND	416	104	400	3.92	

Sample ID: BG (H601578-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/15/2016	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CL-090
AFZ 4902 14973 K- 631

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326