

# Initial Sampling



Imagery Date: 2/13/14  
DGW: 87 ft  
Landowner: State

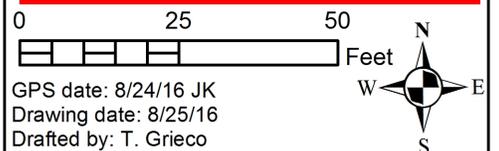


## DCP LOVINGTON BOOSTER SUMP

UL M SECTION 31  
T-16-S R-37-E  
LEA COUNTY, NM

GPS: 32.871883 -103.295800

Underground facilities are spatially projected and need to be field verified.





August 25, 2016

JON BEBBINGTON

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: LOVINGTON BOOSTER SUMP

Enclosed are the results of analyses for samples received by the laboratory on 08/24/16 15:50.

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,

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

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:	08/24/2016	Sampling Date:	08/24/2016
Reported:	08/25/2016	Sampling Type:	Soil
Project Name:	LOVINGTON BOOSTER SUMP	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

**Sample ID: VERTICAL #1 @ 2' (H601908-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.058</b>	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEX	<0.300	0.300	08/25/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/25/2016	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	08/24/2016	ND	217	109	200	0.743	
<b>DRO &gt;C10-C28</b>	<b>12.2</b>	10.0	08/24/2016	ND	237	119	200	0.708	

*Surrogate: 1-Chlorooctane 71.1 % 35-147*
*Surrogate: 1-Chlorooctadecane 76.5 % 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: 08/24/2016  
 Reported: 08/25/2016  
 Project Name: LOVINGTON BOOSTER SUMP  
 Project Number: NONE GIVEN  
 Project Location: LOVINGTON, NM

 Sampling Date: 08/24/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: VERTICAL #2 @ 2' (H601908-02)**

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	08/25/2016	ND	2.29	115	2.00	0.411		
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253		
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280		
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295		
Total BTEX	<0.300	0.300	08/25/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/25/2016	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	08/24/2016	ND	217	109	200	0.743		
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708		

Surrogate: 1-Chlorooctane 92.7 % 35-147

Surrogate: 1-Chlorooctadecane 98.1 % 28-171

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\*=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: 08/24/2016  
 Reported: 08/25/2016  
 Project Name: LOVINGTON BOOSTER SUMP  
 Project Number: NONE GIVEN  
 Project Location: LOVINGTON, NM

 Sampling Date: 08/24/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: VERTICAL #3 @ 2' (H601908-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.065</b>	0.050	08/25/2016	ND	2.29	115	2.00	0.411		
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253		
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280		
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295		
Total BTEX	<0.300	0.300	08/25/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

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	08/25/2016	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	08/24/2016	ND	217	109	200	0.743		
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708		

Surrogate: 1-Chlorooctane 90.8 % 35-147

Surrogate: 1-Chlorooctadecane 95.5 % 28-171

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\* = 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: 08/24/2016  
 Reported: 08/25/2016  
 Project Name: LOVINGTON BOOSTER SUMP  
 Project Number: NONE GIVEN  
 Project Location: LOVINGTON, NM

 Sampling Date: 08/24/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: BOTTOM PT. 1 @ 7' (H601908-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.75</b>	1.00	08/25/2016	ND	2.29	115	2.00	0.411	
<b>Toluene*</b>	<b>42.2</b>	1.00	08/25/2016	ND	2.34	117	2.00	0.253	
<b>Ethylbenzene*</b>	<b>25.0</b>	1.00	08/25/2016	ND	2.24	112	2.00	0.280	
<b>Total Xylenes*</b>	<b>57.9</b>	3.00	08/25/2016	ND	6.80	113	6.00	0.295	
<b>Total BTEX</b>	<b>130</b>	6.00	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

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	08/25/2016	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
<b>GRO C6-C10</b>	<b>1800</b>	10.0	08/24/2016	ND	217	109	200	0.743	
<b>DRO &gt;C10-C28</b>	<b>1440</b>	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 131 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND          Analyte NOT DETECTED at or above the reporting limit
- RPD        Relative Percent Difference
- \*\*          Samples not received at proper temperature of 6°C or below.
- \*\*\*        Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report



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Celey D. Keene, Lab Director/Quality Manager

*RUSH*

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**BILL TO**

**ANALYSIS REQUEST**

Company Name: DCP Midstream P.O. #:  
 Project Manager: \_\_\_\_\_ Company:  
 Address: \_\_\_\_\_ Attn:  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Address:  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner:  
 Project Name: \_\_\_\_\_  
 Project Location: Lovington Booster Sump Phone #: \_\_\_\_\_  
 Sampler Name: Kyle Norman Fax #: \_\_\_\_\_  
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	CL	BETEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<u>H1001908</u>															
	<u>Vertical #1 @ 2 ft.</u>		<u>9</u>			<u>1</u>					<u>8-24-08</u>	<u>3:20</u>	<u>1</u>	<u>1</u>	<u>1</u>
	<u>Vertical #2 @ 2 ft.</u>		<u>5</u>			<u>1</u>					<u>8-11-08</u>	<u>3:23</u>	<u>1</u>	<u>1</u>	<u>1</u>
	<u>Vertical #3 @ 2 ft.</u>		<u>5</u>			<u>1</u>					<u>8-11-08</u>	<u>3:26</u>	<u>1</u>	<u>1</u>	<u>1</u>
	<u>Bottom Pt. 1 @ 7 ft.</u>		<u>6</u>			<u>1</u>					<u>8-11-08</u>	<u>3:30</u>	<u>1</u>	<u>1</u>	<u>1</u>

Delivered By: (Circle One)  UPS  Bus  Other: 25.40

Relinquished By: [Signature] Date: 8/24/08 Time: 3:50

Received By: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Condition:  Cool  Intact  Yes  No

CHECKED BY: [Signature] (Initials)

REMARKS: Norman @ basinenv.com  
hpcorder @ dcpmidstream.com  
Jon Bebbing ter  
directly from field.

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