### **APPROVED**

By Olivia Yu at 7:21 am, Oct 02, 2017

D-1-2 Line Leak Lea County, New Mexico 1RP 4719 NMOCD approves of the proposed remediation for 1RP-4719. Completion of vertical delineation for Vertical 1, Area 2 after liner placement and is granted. Backfill of Area 1 and Area 2 is granted.

Prepared for:



370 17<sup>th</sup> St., Suite 2500 Denver, CO 80202

### Prepared by:



2620 W. Marland Hobbs, NM 88240

**September 28, 2017** 

### **Summary**

Tasman Geosciences, Inc. (Tasman) has prepared this Project Summary on behalf of DCP Midstream, LP (DCP) to document the results of field activities that were conducted at the D-1-2 Line Leak. The site is located approximately 2.3 miles north of Hobbs, New Mexico at UL/O sec. 11 T18S R38E. NMOSE well records indicate that groundwater will likely be encountered at a depth of approximately 83 +/- feet.

DCP Midstream operator was notified by third party of a possible leak. The line was shut in and blown down. NMOCD was notified of the release on May 16, 2017 and an initial C-141 was approved by NMOCD on June 12, 2017 (Appendix A). Tasman personnel were on site on May 22, 2017 to assess the release. The release area was GPS mapped (Figure 1) and samples were collected, the samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B and C) and photographed (Appendix D).

Approximately 700 cubic yards of contaminated soil was exported and disposed of at a NMOCD approved facility.

### **Corrective Action Plan**

Based on the assessment and sampling data, we propose a 20-mil reinforced poly liner that will be installed and properly seated at four feet in area 1 and area 2 (figures 1 and 2). The excavations will then be backfilled with clean soil.

Revegetation of the site will be performed as follows:

Disturbed areas associated with the remediation efforts will be reseeded. The seed will be spread using a hand-held broadcaster and the area raked or dragged to cover the seed. Because the seed will be broadcast, the pounds per acre will be doubled. Lea Co. seed mix.

The seed mixture will be planted in the amounts specified in pounds of pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered. The area will be seeded following backfilling of the excavated area.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

Tasman appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

Kyle Norman Project Manager Tasman Geosciences (575) 318-5017

### Attachments:

Figure 1-Area 1 Excavation and samples

Figure 2-Area 2 Excavation and samples

Figure 3-Overview map

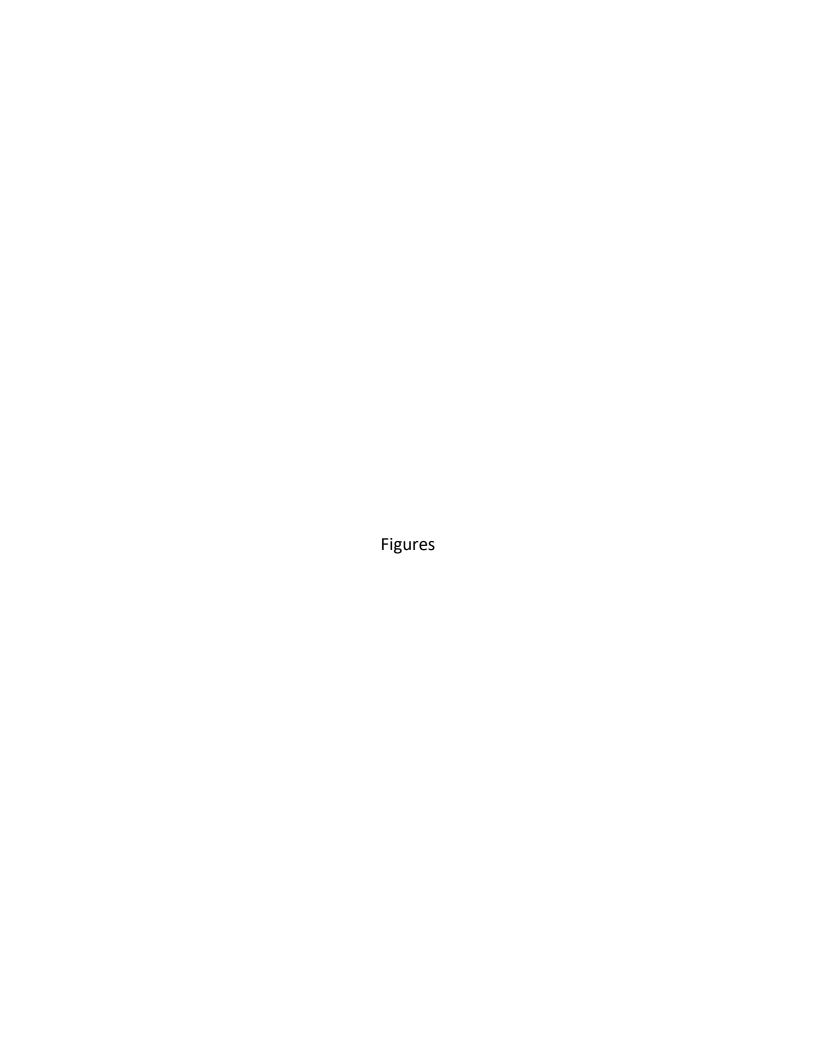
Appendix A – Initial C-141

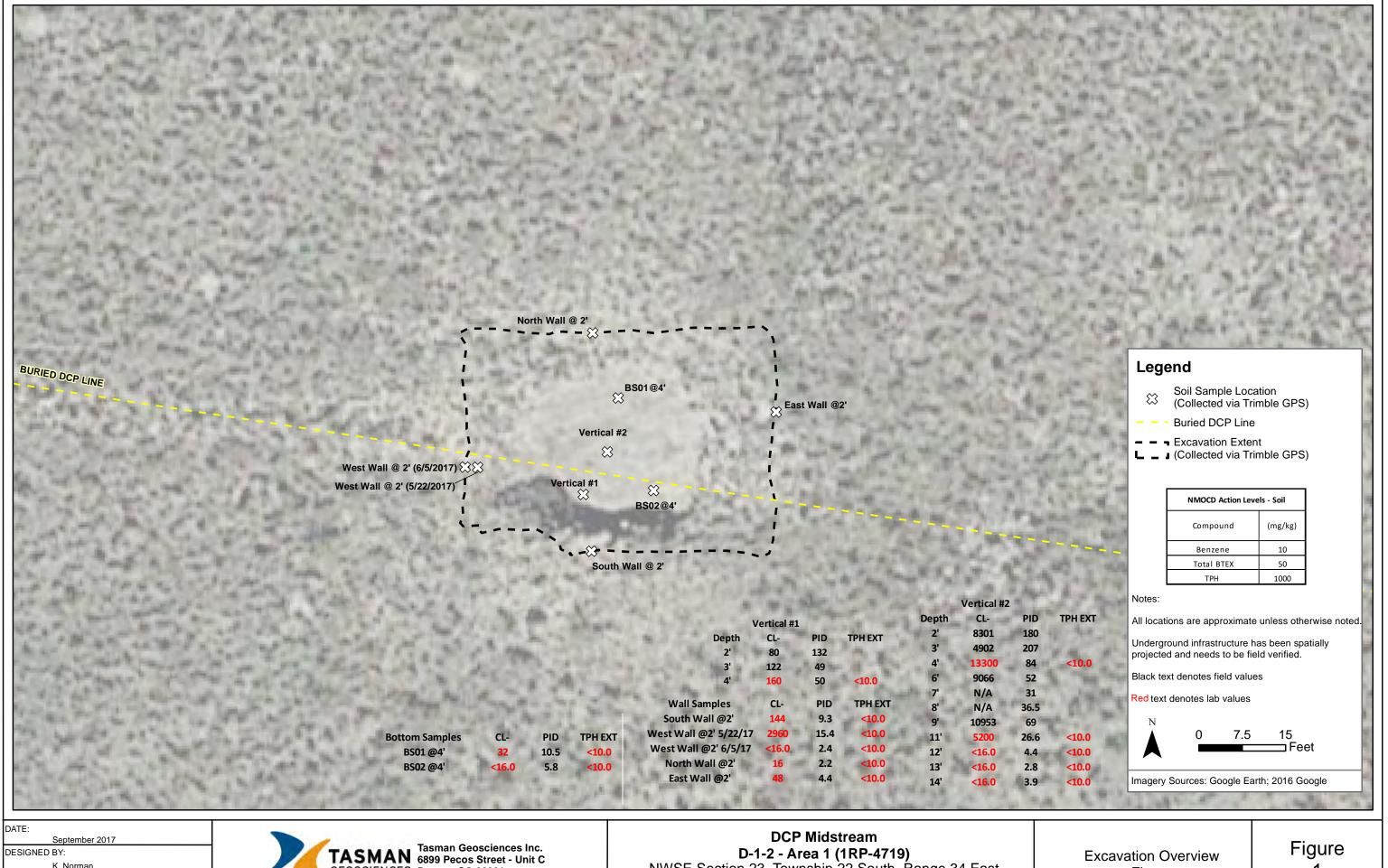
Appendix B – Area 1 Laboratory Analyses

Appendix C – Area 2 Laboratory Analyses

Appendix D - Photo Documentation

Appendix E – NMOSE DGW



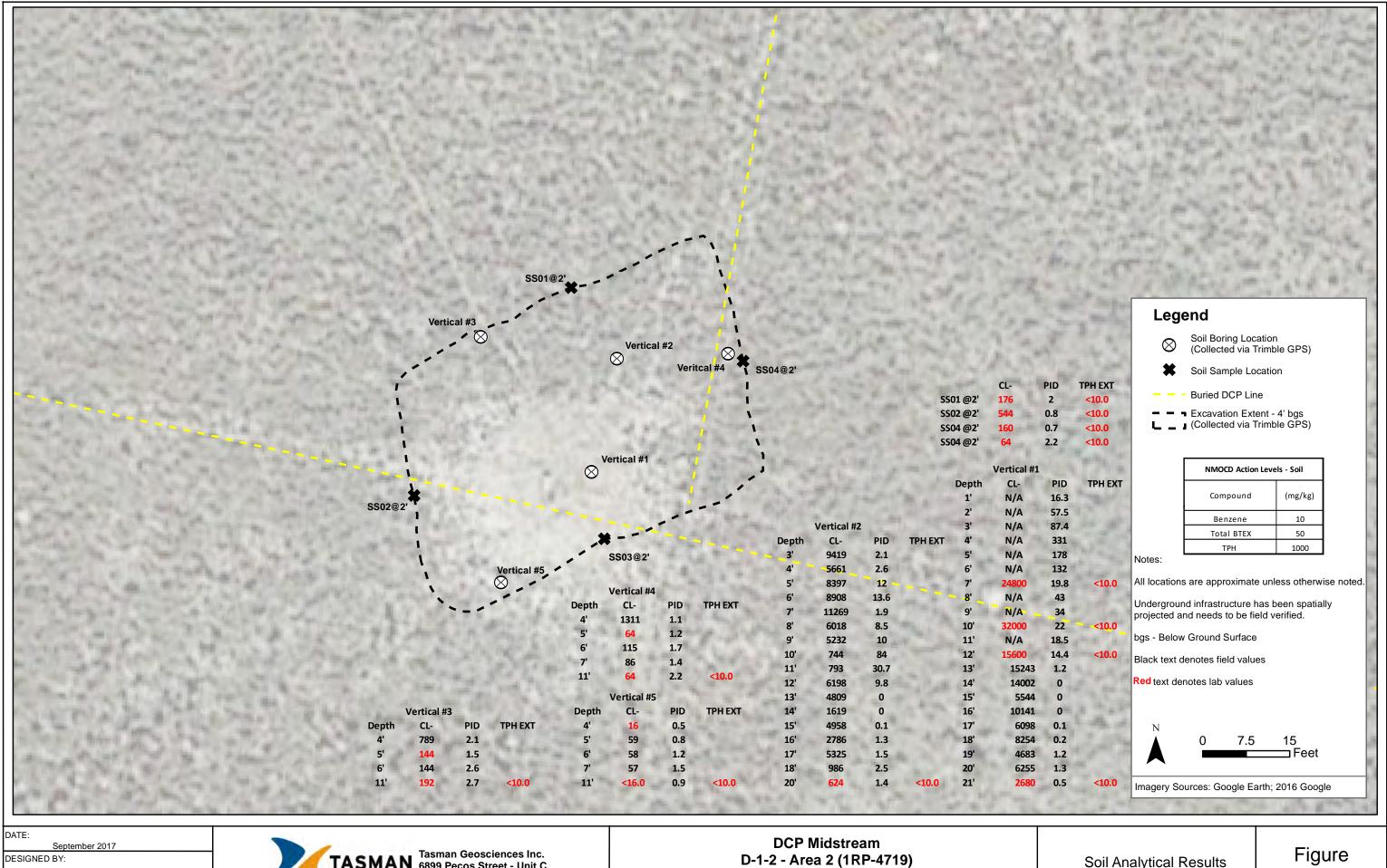


K. Norman DRAWN BY: D. Arnold



NWSE Section 23, Township 22 South, Range 34 East Lea County, New Mexico

Figure



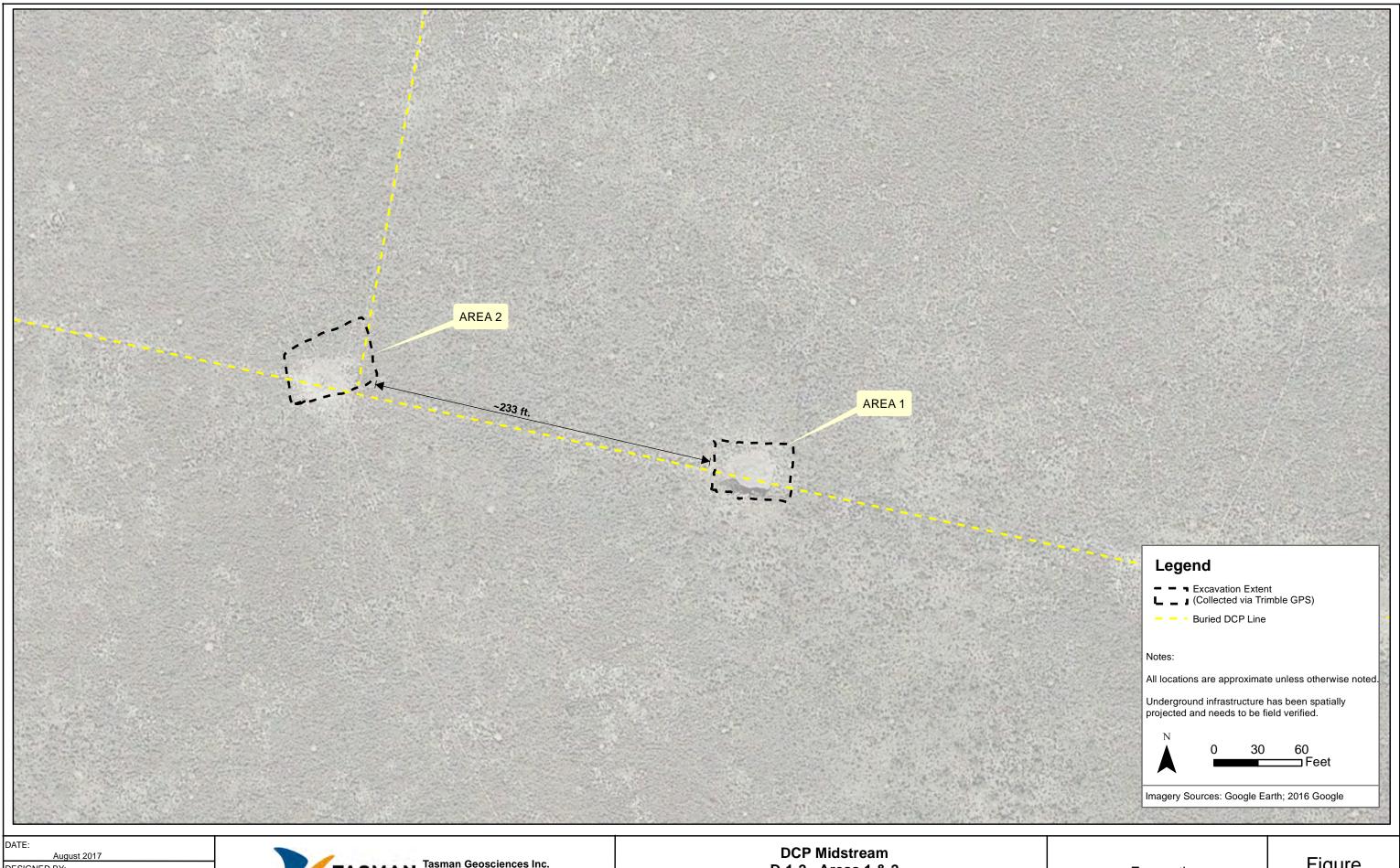
K. Norman DRAWN BY: D. Arnold



D-1-2 - Area 2 (1RP-4719)

NWSE Section 23, Township 22 South, Range 34 East Lea County, New Mexico

Soil Analytical Results Мар



DATE:
August 2017

DESIGNED BY:
K. Norman

DRAWN BY:
D. Arnold



DCP Midstream
D-1-2 - Areas 1 & 2
NWSE Section 23, Township 22 South, Range 34 East
Lea County, New Mexico

Excavation Overview Map Figure 3



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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

### Release Notification and Corrective Action

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				LOCAT	ION OF	RELEA	ASE			
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	ease: Natural	Gas	77.00			Volume of	Release		Volume I	Recovered
4 4						7 Barrels			0	
Source of Re	elease pipe	line	-076	-		Date and F	Hour of Occurrence	ce	Date and	Hour of Discovery
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1RP-4719

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fOY1716334427 nOY1716334892





May 26, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: D-1-2

Enclosed are the results of analyses for samples received by the laboratory on 05/22/17 16:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



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

Received: 05/22/2017 Reported: 05/26/2017

Project Name: D-1-2 Project Number: AREA#1 Project Location: NONE GIVEN Sampling Date: 05/22/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: VERTICAL #2 @ 4' (H701366-01)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	05/23/2017	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/23/2017	ND	179	89.6	200	14.4	
DRO >C10-C28	<10.0	10.0	05/23/2017	ND	179	89.6	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/23/2017	ND					
Surrogate: 1-Chlorooctane	95.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.8	% 34.7-15	7						

### Sample ID: VERTICAL #2 @ 11' (H701366-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	05/23/2017	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/23/2017	ND	179	89.6	200	14.4	
DRO >C10-C28	<10.0	10.0	05/23/2017	ND	179	89.6	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/23/2017	ND					
Surrogate: 1-Chlorooctane	90.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.6	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



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

Received: 05/22/2017 Reported: 05/26/2017

Project Name: D-1-2
Project Number: AREA#1
Project Location: NONE GIVEN

Sampling Date: 05/22/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: WEST WALL @ 2' (H701366-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	05/23/2017	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/23/2017	ND	179	89.6	200	14.4	
DRO >C10-C28	<10.0	10.0	05/23/2017	ND	179	89.6	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/23/2017	ND					
Surrogate: 1-Chlorooctane	95.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.1	% 34.7-15	7						

### Sample ID: SOUTH WALL @ 2' (H701366-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/23/2017	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/23/2017	ND	179	89.6	200	14.4	
DRO >C10-C28	<10.0	10.0	05/23/2017	ND	179	89.6	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/23/2017	ND					
Surrogate: 1-Chlorooctane	93.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.9	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ARDINAL LABORATORIES

TX 79603

Relinquished By:	NEASE NOTE: Liability and Dar nalyses. All claims including thoservice. In no event shall Cardina		1	3.0	2 Ve	l Ve	Lab I.D.	FOR LAB USE ONLY	Project Location: De l'acceptance l'American le Project Location: De l'acceptance le l'accepta		Project #: F 40	מורבי	Phone #:	City:	Address:	roject Manager:	Company Name: DO	loc
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Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinguished By:

Time:

S-22-17

Received By:

enara

Sample Condition
Cool Intact
Tyes Tyes
No No No

CHECKED BY:

knorman@tasman-geo.com: yblair@dcpmidstream.com

email results: hpconder@dcpmidstream.com



May 26, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: D-1-2

Enclosed are the results of analyses for samples received by the laboratory on 05/22/17 16:05.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



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

Received: 05/22/2017 Reported: 05/26/2017

Project Name: D-1-2
Project Number: AREA#1
Project Location: NONE GIVEN

Sampling Date: 05/22/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: VERTICAL #1 @ 4' (H701367-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/24/2017	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/23/2017	ND	179	89.6	200	14.4	
DRO >C10-C28	<10.0	10.0	05/23/2017	ND	179	89.6	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/23/2017	ND					
Surrogate: 1-Chlorooctane	88.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.8	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Project Manager:	" DCP Midstream		BILL TO			1	ANA	ANALYSIS	REQUEST	
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ampler - UPS - Bus - Other:		Sample Condition Cool Intact Yes 4 Yes	CHECKED BY: (Initials)	knorman@tasman-geo.com:	man-	geo.c	im:			
			-							



June 07, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: D-1-2

Enclosed are the results of analyses for samples received by the laboratory on 06/05/17 15:10.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



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

Received: 06/05/2017 Reported: 06/07/2017

Project Name: D-1-2

Project Number: F-210 - AREA #1

Project Location: NONE GIVEN

Sampling Date: 06/05/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: NORTH WALL @ 2' (H701470-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	94.9 9	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	85.4	% 34.7-15	7						

### Sample ID: WEST WALL @ 2' (H701470-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	112	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.9	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



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

Received: 06/05/2017 Reported: 06/07/2017

Project Name: D-1-2

Project Number: F-210 - AREA #1 NONE GIVEN

Project Location:

Sampling Date: 06/05/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: EAST WALL @ 2' (H701470-03)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	112 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.4	% 34.7-15	7						

### Sample ID: BS01 @ 4' (H701470-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	114 %	6 28.3-16	54						
Surrogate: 1-Chlorooctadecane	90.4 %	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



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

Received: 06/05/2017 Reported: 06/07/2017

Project Name: D-1-2

Project Number: F-210 - AREA #1
Project Location: NONE GIVEN

Sampling Date: 06/05/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BS02 @ 4' (H701470-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	122	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

### Sample ID: VERTICAL #2 @ 12' (H701470-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	97.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.0	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



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

Received: 06/05/2017 Reported: 06/07/2017

Project Name: D-1-2
Project Number: F-210 - AREA #1

Project Location: NONE GIVEN

Sampling Date: 06/05/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: VERTICAL #2 @ 13' (H701470-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	105	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.2	% 34.7-15	7						

### Sample ID: VERTICAL #2 @ 14' (H701470-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/06/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2017	ND	197	98.3	200	1.52	
DRO >C10-C28	<10.0	10.0	06/05/2017	ND	182	91.1	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	06/05/2017	ND					
Surrogate: 1-Chlorooctane	103	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.3	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### **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

ecovery.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

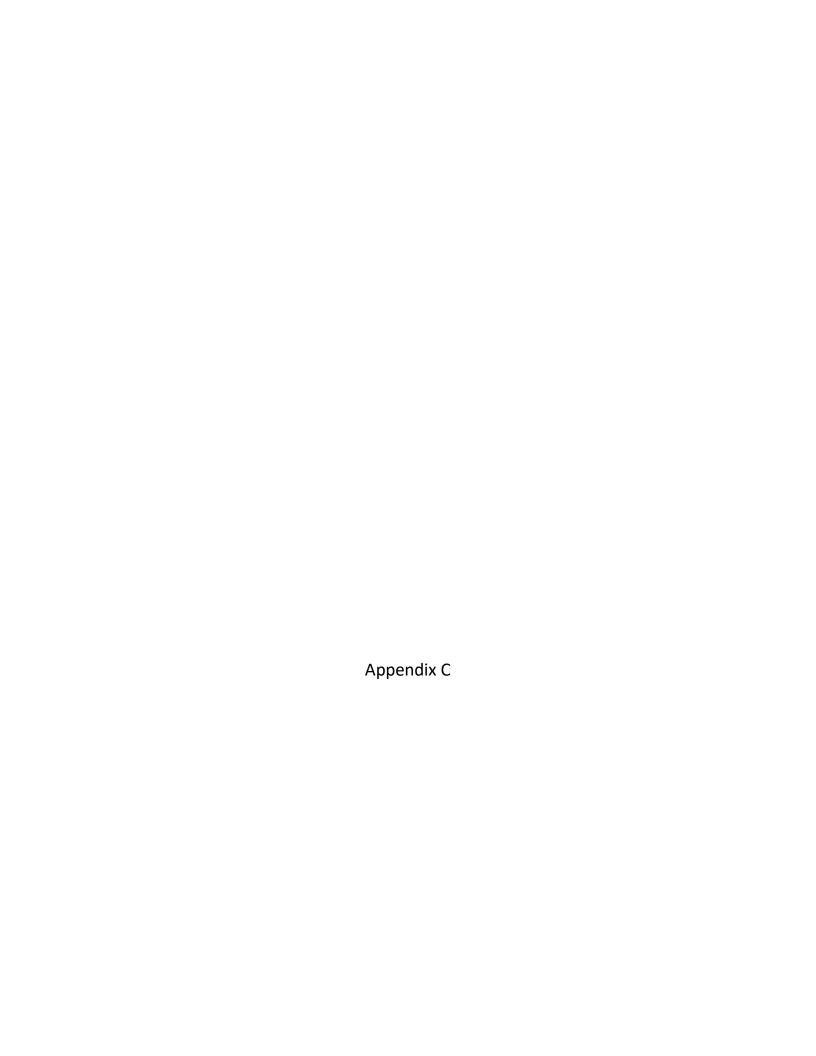
Celeg D. Freene



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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June 14, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: D-1-2

Enclosed are the results of analyses for samples received by the laboratory on 06/08/17 8:20.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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

Received: 06/08/2017 Reported: 06/14/2017

Project Name: D-1-2

Project Number: F-210 - AREA #2

Project Location: NONE GIVEN

Sampling Date: 06/07/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: VERTICAL #1 @ 7' (H701507-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	06/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	181	90.3	200	7.10	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	179	89.4	200	8.25	
EXT DRO >C28-C36	10.6	10.0	06/09/2017	ND					

### Sample ID: VERTICAL #1 @ 10' (H701507-02)

Surrogate: 1-Chlorooctadecane

88.3 %

34.7-157

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	06/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	181	90.3	200	7.10	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	179	89.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND					
Surrogate: 1-Chlorooctane	107	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.3	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Received: 06/08/2017 Reported:

Project Name: D-1-2

Project Number: F-210 - AREA #2 NONE GIVEN

06/14/2017

Project Location:

Sampling Date: 06/07/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: VERTICAL #1 @ 12' (H701507-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	06/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	181	90.3	200	7.10	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	179	89.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND					
Surrogate: 1-Chlorooctane	104	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	90.3	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Celuy D. Keine



### **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company wante. UCD NICKSTORM		BILL 10	ANALYSIS REQUEST
Project Manager: Hack Conder	P.O. #:		_
	Company:		
City: State:	Zip: Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	ner: City:	7	
Project Name:		Zip:	
Project Location: D-1-2 Area #2	Phone #:	E,	
Sampler Name: Kule Norman	Fax #:		
,	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	
1 Vertical # 1 @ 7	- /	6-7-17 12:00 1 1	
-	-		
3 Vertial#1 @12"	61	1300 / 1	
PLEASE NOTE: Lability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for nepligence and any other cause whatsoever shall be deemed waived unless made in writing and reserved by Cardinal within 30 days after completion of the applicable.	for any claim arising whether based in contract or tort, shall be limited to the deemed waived unless made in writing and received by Cardinal within	e amount paid by the client for the 30 days after completion of the applicable	

Sample Condified
Cool Intact
Yes Yes
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relingaished By:

Relinquished By

Date: 8-17

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'I Phone #

y Blair @ & depridstream & com

Kroman @ tosman -geor com

Time:

Date: 8-17

Received By:



June 26, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: D-1-2

Enclosed are the results of analyses for samples received by the laboratory on 06/23/17 11:20.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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

Received: 06/23/2017 Reported: 06/26/2017

Project Name: D-1-2

Project Number: F-210 - AREA #2

Project Location: NONE GIVEN

Sampling Date: 06/23/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS01 @ 2' (H701643-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/23/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2017	ND	207	103	200	0.0508	
DRO >C10-C28	<10.0	10.0	06/23/2017	ND	221	110	200	0.480	
EXT DRO >C28-C36	<10.0	10.0	06/23/2017	ND					
Surrogate: 1-Chlorooctane	93.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.3	% 34.7-15	7						

### Surrogule. 1-Chloroocidaecane 96.5 /6 54

### Sample ID: SS02 @ 2' (H701643-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/23/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2017	ND	207	104	200	1.79	
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	214	107	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	06/26/2017	ND					
Surrogate: 1-Chlorooctane	78.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.3	% 34.7-15	7						

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Celey D. Keine



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

Received: 06/23/2017 Reported: 06/26/2017

Project Name: D-1-2
Project Number: F-210 - AREA #2

Project Location: NONE GIVEN

Sampling Date: 06/23/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS03 @ 2' (H701643-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/23/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2017	ND	207	104	200	1.79	
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	214	107	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	06/26/2017	ND					
Surrogate: 1-Chlorooctane	82.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.2	% 34.7-15	7						

### Sample ID: SS04 @ 2' (H701643-04)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/23/2017	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
GRO C6-C10	<10.0	10.0	06/26/2017	ND	207	104	200	1.79	
DRO >C10-C28	<10.0	10.0	06/26/2017	ND	214	107	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	06/26/2017	ND					
Surrogate: 1-Chlorooctane	94.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.7	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

QR-05 The RPD exceeded historical limits.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

 $\mathcal{H}\mathcal{USH}_{\underline{\mathsf{chain-of-custody}}}$  and analysis request

ARDINAL LABORATORIES

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

Company Name:	100,000,000	V (250)013-1020						
DCF		BILL TO	23			ANA	ANALYSIS REQUEST	
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Phone #: Fax #:		Address:			_	nic		
Project #: Project Owner:		City:		M	-	_		
Project Name:	-	State: Zip:						
Project Location: D-1-2 Area #2		#	_		_			
		Fax #:	lor	80 TE	as		ΓD	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	_					
Lab I.D. Sample I.D.	GRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:		EXTTP	Te	Complete		
2 5503 62'	6	1 6.23.77 08.30	177	111				
7.3hoss h	<u> </u>	V 0930	7					
LEASE NOTE: Liability and Darmages. Cardinal's liability and discrete socials.								
Index. In no event shall Cardinal be in leaflegance and any offset cause whatsoever shall be determed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable inflates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise.    Date:	auther whatboover shall be deemed valvest unless made in writing and recreated damages, including without limitation, business interruptions, loss of services hereunder by Cardinal, regardeless of whether such claim is built	of received by Cardinal within 30 days after completion of the applications of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above stated reasons or otherwise.  Phone Result:  Fax Result:	pplicat It:	O Yes Ø	N N	Add'l P	Add'l Phone #:	
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		グサン						



September 14, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: D-1-2

Enclosed are the results of analyses for samples received by the laboratory on 09/13/17 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Whe Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Received: 09/13/2017 Reported: 09/14/2017

Project Name: D-1-2

Project Number: F-210 - AREA 2

Project Location: NONE GIVEN

Sampling Date: 09/11/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: VERTICAL #1 @ 21' (H702471-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	09/14/2017	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/14/2017	ND	180	90.2	200	0.273	
DRO >C10-C28	<10.0	10.0	09/14/2017	ND	193	96.5	200	2.02	
EXT DRO >C28-C35	<10.0	10.0	09/14/2017	ND					
EXT DRO >C28-C36	<10.0	10.0	09/14/2017	ND					
Surrogate: 1-Chlorooctane	96.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.5	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Mile Single



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

Received: 09/13/2017 Reported: 09/14/2017

Project Name: D-1-2

Project Number: F-210 - AREA 2 Project Location: NONE GIVEN Sampling Date: 09/12/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: VERTICAL #2 @ 20' (H702471-02)

Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/14/2017	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/14/2017	ND	180	90.2	200	0.273	
DRO >C10-C28	<10.0	10.0	09/14/2017	ND	193	96.5	200	2.02	
EXT DRO >C28-C35	<10.0	10.0	09/14/2017	ND					
EXT DRO >C28-C36	<10.0	10.0	09/14/2017	ND					
Surrogate: 1-Chlorooctane	92.0 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.1 %	6 34.7-15	7						

#### Sample ID: VERTICAL #3 @ 5' (H702471-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/14/2017	ND	400	100	400	7.69	

Cardinal Laboratories \*=Accredited Analyte

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Mile Single



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

Received: 09/13/2017 Reported: 09/14/2017

Project Name: D-1-2

Project Number: F-210 - AREA 2 Project Location: NONE GIVEN Sampling Date: 09/12/2017 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: VERTICAL #3 @ 11' (H702471-04)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/14/2017	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/14/2017	ND	180	90.2	200	0.273	
DRO >C10-C28	<10.0	10.0	09/14/2017	ND	193	96.5	200	2.02	
EXT DRO >C28-C35	<10.0	10.0	09/14/2017	ND					
EXT DRO >C28-C36	<10.0	10.0	09/14/2017	ND					
Surrogate: 1-Chlorooctane	87.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.1	% 34.7-15	7						

#### Sample ID: VERTICAL #4 @ 5' (H702471-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2017	ND	400	100	400	7.69	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

MMc Songh



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

Received: 09/13/2017 Reported: 09/14/2017

Project Name: D-1-2

Project Number: F-210 - AREA 2 Project Location: NONE GIVEN Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: VERTICAL #4 @ 11' (H702471-06)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2017	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/14/2017	ND	180	90.2	200	0.273	
DRO >C10-C28	<10.0	10.0	09/14/2017	ND	193	96.5	200	2.02	
EXT DRO >C28-C35	<10.0	10.0	09/14/2017	ND					
EXT DRO >C28-C36	<10.0	10.0	09/14/2017	ND					
Surrogate: 1-Chlorooctane	99.4 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.79	% 34.7-15	7						

#### Sample ID: VERTICAL #5 @ 4' (H702471-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2017	ND	400	100	400	7.69	

Cardinal Laboratories \*=Accredited Analyte

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Mile Sough



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

Received: 09/13/2017 Reported: 09/14/2017

Project Name: D-1-2

Project Number: F-210 - AREA 2 Project Location: NONE GIVEN Sampling Date: 09/13/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: VERTICAL #5 @ 13' (H702471-08)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2017	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/14/2017	ND	180	90.2	200	0.273	
DRO >C10-C28	<10.0	10.0	09/14/2017	ND	193	96.5	200	2.02	
EXT DRO >C28-C35	<10.0	10.0	09/14/2017	ND					
EXT DRO >C28-C36	<10.0	10.0	09/14/2017	ND					
Surrogate: 1-Chlorooctane	86.8 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.4 %	% 34.7-15	7						

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MMc Songh



#### **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

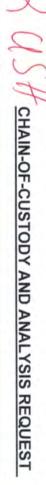
Samples reported on an as received basis (wet) unless otherwise noted on report

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whe South





Company Name:	DCP Midstream	BILL 1	BILL TO			П		NAL	ANALYSIS
Project Manager:			P.O. #:						
Address:			Company:					าร	
city:	State:	Zip:	Attn:					ior	
Phone #:	Fax #:		Address:		ΧT			٩n	
Project #:	Project Owner:	ner:	City:	s	E		Н	s/A	
Project Name:			State: Zip:	les	M	X	P	on	;
Project Location:	" D-1-2 Area 2		Phone #:	oric	15	E	s T	ati	DS
Sampler Name:	vle Norman		Fax #:	nlo	01	ВТ	ka	C	T
	Nyie Norman	MATRIX	ECEDIA		80	E	ex	9 (	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		H 8		Те	ete	
l ah I D	Sample I D	WATER			TPH			omple	
H702471		# CONT	OTHER ACID/B/ ICE / CC OTHER	TIME				C	
	Vertical #1021'	-	_	1406 X	1				
7-	-		1 9-12-13	1500 V	7				
W	Vertical #36 5'		9-12-1	70900					
4	4 8 11		9-12-15	1200 V	<				
n	Vertical #485'		9-13-1	7 0360 1					
6	A 4 611.			A 0560	7				
7	Vertical #5041			1045 1					
a	¥ ¥ € 13	~	4	1300 1	5				
PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Constitution of the service articles.	ty and client ny other cau or conseque	s exclusive remedy for any claim arising whether based in contract as whatsoever shall be deemed waived unless made in writing an arrival damages, including without limitation, business interruptions, services hereinders. Or Cartinols resorables of Newhither such claim	act or tort, shall be limited to the amount p and received by Cardinal within 30 days a s, loss of use, or loss of profits incurried m is based upon any of the above stated	aid by the client for the ter completion of the applications of the subsidiaries.	ble				
Relinquished By:	A to the province of the provi			Phone Result:	□ Yes		No	Add'I	Add'l Phone #:
	/	dod !	enson	Fax Result: REMARKS:	□ Yes	5		Add'I Fax #:	Fax #:
Relinquished By:	y: Date:	Received By:		email results:	ılts:	hpconder@dcpmidstream.com	nde	r@c	cpn
,	Time:			yblair@dcpmidstream.com	pmic	Istrea	am.c	ŏm	

Sampler - UPS - Bus - Other: 15 4.2

Sample Condition
Cool Intact
Wes Des

СНЕСКЕВ ВҮ:

knorman@tasman-geo.com:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2416, 252



## **DCP Midstream D-1-2 Line Leak**

1RP-4719







Area 1 excavating vertical 1 6/05/17



Area 1 export soil 5/22/17



Area 2 excavating vertical 1

9/11/17







Area 2 excavating vertical 2 9/11/17





# 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 Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin	County	64	16	4 S	Sec	Tws	Rng	Х	Υ	Distance	Well	Water	Column
L 11339	L	LE	2	4	4	11	18S	38E	676901	3625969* 🌍	328	160	90	70
L 03332	L	LE		2	4	11	18S	38E	676795	3626272* 🌍	442	125	60	65
L 12245 POD1	L	LE	2	4	3	11	18S	38E	676079	3626022 🌍	523	155		
L 07772	L	LE	2	2	1	14	18S	38E	676104	3625553* 🌍	582	200	65	135
L 11635	L	LE	3	3	2	11	18S	38E	676284	3626568* 🌍	747	185	78	107
L 03487	L	LE		4	2	11	18S	38E	676787	3626675* 🌍	817	112	45	67
L 07721	L	LE	2	4	1	14	18S	38E	676111	3625150* 🌍	872	150	70	80
L 13802 POD1		LE	1	3	2	11	18S	38E	676357	3626791 🌍	935	190	111	79
L 10517	L	LE			2	11	18S	38E	676586	3626870*	986	112	86	26
L 11022	L	LE			2	11	18S	38E	676586	3626870*	986	200	150	50
L 11103	L	LE			2	11	18S	38E	676586	3626870*	986	200		

Average Depth to Water: 83 feet

Minimum Depth: 45 feet

Maximum Depth: 150 feet

**Record Count: 11** 

**UTMNAD83 Radius Search (in meters):** 

Easting (X): 676583.93 Northing (Y): 3625883.54 Radius: 1000