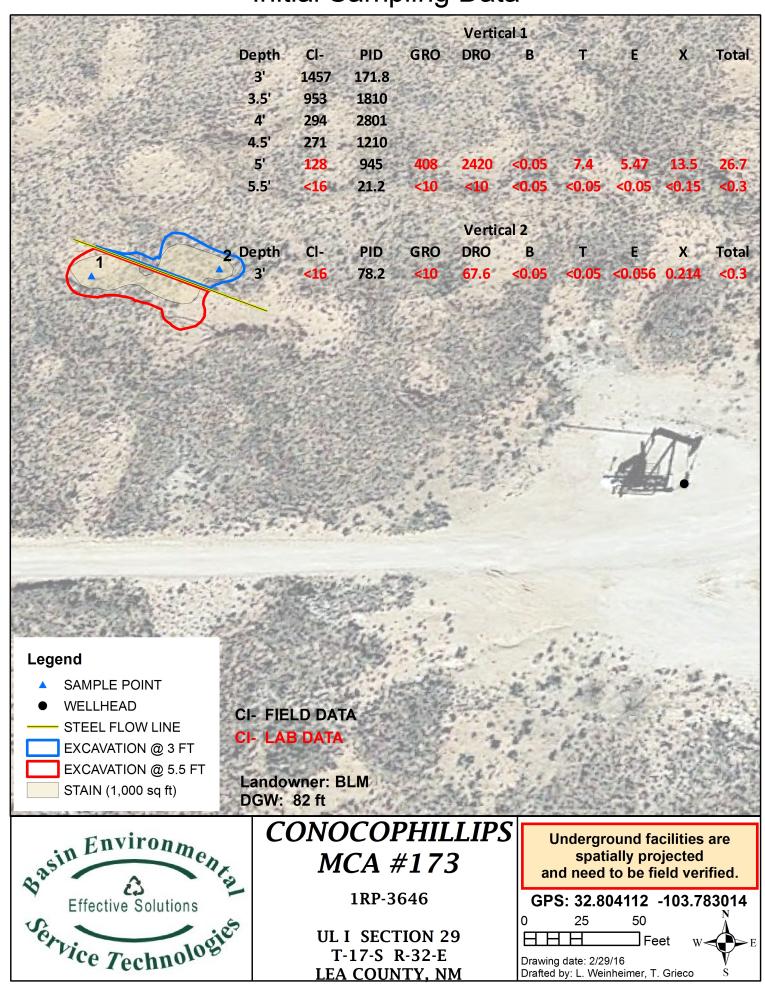
Initial Sampling Data



LEA COUNTY, NM

Drafted by: L. Weinheimer, T. Grieco



February 26, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: MCA #173

Enclosed are the results of analyses for samples received by the laboratory on 02/25/16 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab 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



Analytical Results For:

Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/25/2016 Reported: 02/26/2016

Project Name: MCA #173
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 02/17/2016

Sampling Type: Soil

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

Sample ID: PT. 1 @ 5' (H600427-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2016	ND	2.06	103	2.00	0.0598	
Toluene*	7.48	0.050	02/26/2016	ND	2.03	101	2.00	0.159	
Ethylbenzene*	5.47	0.050	02/26/2016	ND	1.82	90.8	2.00	0.254	
Total Xylenes*	13.5	0.150	02/26/2016	ND	5.58	92.9	6.00	0.718	
Total BTEX	26.4	0.300	02/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	178 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/26/2016	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	408	50.0	02/26/2016	ND	198	98.8	200	7.73	
DRO >C10-C28	2420	50.0	02/26/2016	ND	208	104	200	14.9	
Surrogate: 1-Chlorooctane	134 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	133 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

Basin Environmental Service **KYLE NORMAN** P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/25/2016 Reported:

02/26/2016

Project Name: MCA #173 Project Number: NONE GIVEN Project Location: NONE GIVEN Sampling Date: 02/17/2016

Sampling Type: Soil

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

Sample ID: PT. 2 @ 3' (H600427-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2016	ND	2.06	103	2.00	0.0598	
Toluene*	<0.050	0.050	02/26/2016	ND	2.03	101	2.00	0.159	
Ethylbenzene*	0.056	0.050	02/26/2016	ND	1.82	90.8	2.00	0.254	
Total Xylenes*	0.214	0.150	02/26/2016	ND	5.58	92.9	6.00	0.718	
Total BTEX	<0.300	0.300	02/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/26/2016	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	02/26/2016	ND	198	98.8	200	7.73	
DRO >C10-C28	67.6	10.0	02/26/2016	ND	208	104	200	14.9	
Surrogate: 1-Chlorooctane	101 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	110 9	6 28-171							

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(505) 393-2326 FAX (505) 393-24/6		(325) 673-7001 FAX (325)6/3-/020	JI FAX	(325)0	3-1020								PEOLIEST	TOT		
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roject Manager: Kyle Norman			٥.	P.O. #:			_									
ddress: 419 W Cain			C	Company: Basin	Basin						ns					
bbs State: NM	Zip: 88240	240	A	Attn:					_	_	סור					
hone #: 575-393-2967 Fax #: 575-393-0293	3-0293		A	dress:	Address: 419 W Cain		_	1		-	AI					
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable 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 30 days after completion of the applicable 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 30 days after completion of the applicable in analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal's liability and client's exclusive removed the part of th	any claim aris deemed wain	sing whether based ved unless made in tation, business int	in contract or writing and re erruptions, los	tort, shall be sceived by Ca s of use, or lo	imited to the amount pa dinal within 30 days aft ss of profits incurred by	d by the client for the completion of the client, its subsidiari	the e applicable ies	a								
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March 30, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: MCA #173

Enclosed are the results of analyses for samples received by the laboratory on 03/29/16 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab 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



Analytical Results For:

Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 03/29/2016 Reported: 03/30/2016

Project Name: MCA #173
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 03/28/2016

Sampling Type: Soil

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

Sample ID: PT. 1 @ 5.5' (H600658-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	< 0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	< 0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/30/2016	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	03/30/2016	ND	176	88.2	200	6.12	
DRO >C10-C28	<10.0	10.0	03/30/2016	ND	166	83.1	200	12.3	
Surrogate: 1-Chlorooctane	80.2 9	% 35-147							
Surrogate: 1-Chlorooctadecane	92.4	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, A

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

(505) 353	1 33-2320 FAA (303) 333-241	0 (020) 010-1001 1	UV (050)010-1050												
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Project Manager: Kyle Norman	man		P.O. #:												
Address: 419 W Cain			Company: Basin						IS						
City: Hobbs	State: NM Z	Zip: 88240	Attn:						IOI	-					
Phone #: 575-393-2967	Fax #: 575-393-0293	-0293	Address: 419 W Cain					^	4nı						
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ame:	MCA #173		State: NM Zip: 88240		des				-	_					
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