

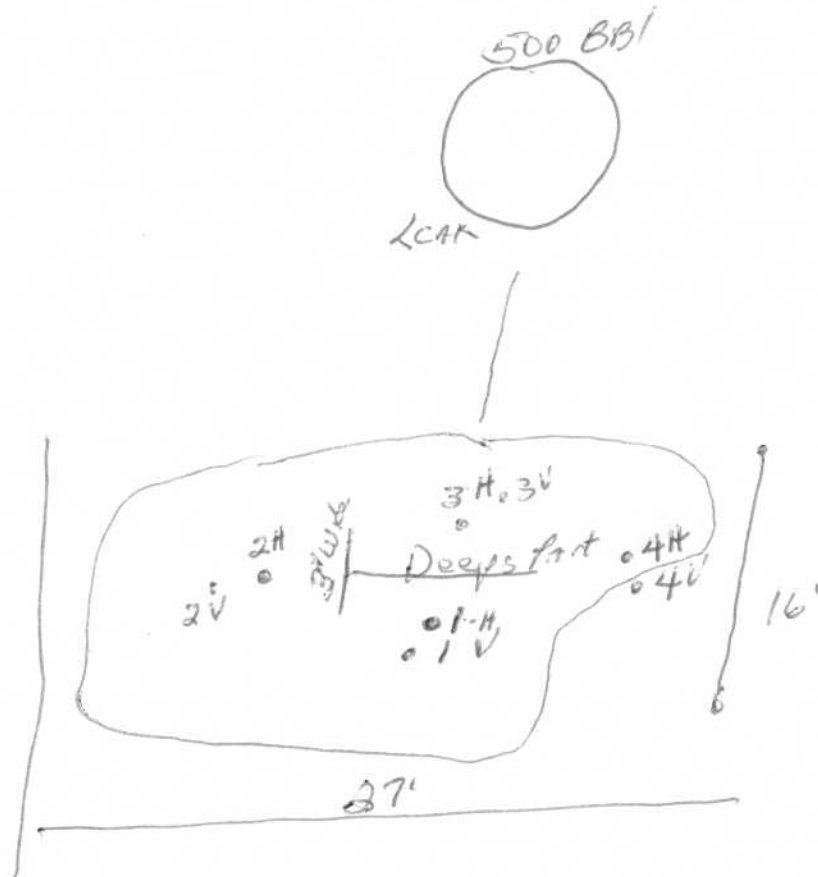
## REVIEWED

By Kellie Jones at 8:37 am, Nov 23, 2015

Km Battery

## INFORMATION ONLY

1. OCD and State Land Office both have visited the site and have determined further action is required. There are still areas that appear to be impacted.
2. Please note permission to backfill the site was **not** granted.
3. Please provide any pictures taken during the remediation and sampling process.
4. Please provide documentation that delineation had occurred prior to unauthorized backfill.
5. Please inform OCD when the samples were taken, i.e. before or after unauthorized backfill.



Deep part 3' deep  
+ 3' wide + 12' long  
1-H Horizontal  
1-V Vertical

1-H Samples 8" Deep



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 23, 2015

JOHN ALEXANDER

DUGAN PRODUCTION

P. O. BOX 420

FARMINGTON, NM 87499

RE: K M BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/20/15 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

DUGAN PRODUCTION  
JOHN ALEXANDER  
P. O. BOX 420  
FARMINGTON NM, 87499  
Fax To: (505) 327-4043

Received: 10/20/2015  
Reported: 10/23/2015  
Project Name: K M BATTERY  
Project Number: NONE GIVEN  
Project Location: CHAVES CO, NM

Sampling Date: 10/20/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #1 V (H502737-01)**

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	10/22/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/22/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/22/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/22/2015	ND	5.77	96.2	6.00	2.27	
Total BTEX	<0.300	0.300	10/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

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	10/21/2015	ND	368	92.0	400	0.00		

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	167	10.0	10/21/2015	ND	210	105	200	6.00	
Total TPH C6-C28	167	10.0	10/21/2015	ND	417	104	400	5.29	

Surrogate: 1-Chlorooctane 91.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DUGAN PRODUCTION  
JOHN ALEXANDER  
P. O. BOX 420  
FARMINGTON NM, 87499  
Fax To: (505) 327-4043

Received: 10/20/2015  
Reported: 10/23/2015  
Project Name: K M BATTERY  
Project Number: NONE GIVEN  
Project Location: CHAVES CO, NM

Sampling Date: 10/20/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #2 V (H502737-02)**

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	10/22/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/22/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/22/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/22/2015	ND	5.77	96.2	6.00	2.27	
Total BTEx	<0.300	0.300	10/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

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	10/21/2015	ND	368	92.0	400	0.00	

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	103	10.0	10/21/2015	ND	210	105	200	6.00	
Total TPH C6-C28	103	10.0	10/21/2015	ND	417	104	400	5.29	

Surrogate: 1-Chlorooctane 86.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.5 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DUGAN PRODUCTION  
JOHN ALEXANDER  
P. O. BOX 420  
FARMINGTON NM, 87499  
Fax To: (505) 327-4043

Received: 10/20/2015  
Reported: 10/23/2015  
Project Name: K M BATTERY  
Project Number: NONE GIVEN  
Project Location: CHAVES CO, NM

Sampling Date: 10/20/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #3 V (H502737-03)**

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	10/22/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/22/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/22/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/22/2015	ND	5.77	96.2	6.00	2.27	
Total BTEx	<0.300	0.300	10/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/21/2015	ND	368	92.0	400	0.00	

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	356	10.0	10/21/2015	ND	210	105	200	6.00	
Total TPH C6-C28	356	10.0	10/21/2015	ND	417	104	400	5.29	

Surrogate: 1-Chlorooctane 89.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DUGAN PRODUCTION  
JOHN ALEXANDER  
P. O. BOX 420  
FARMINGTON NM, 87499  
Fax To: (505) 327-4043

Received: 10/20/2015  
Reported: 10/23/2015  
Project Name: K M BATTERY  
Project Number: NONE GIVEN  
Project Location: CHAVES CO, NM

Sampling Date: 10/20/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #4 V (H502737-04)**

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	10/22/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/22/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/22/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/22/2015	ND	5.77	96.2	6.00	2.27	
Total BTEx	<0.300	0.300	10/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/21/2015	ND	368	92.0	400	0.00	

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	323	10.0	10/21/2015	ND	210	105	200	6.00	
Total TPH C6-C28	323	10.0	10/21/2015	ND	417	104	400	5.29	

Surrogate: 1-Chlorooctane 89.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 JOHN ALEXANDER  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 10/20/2015  
 Reported: 10/23/2015  
 Project Name: K M BATTERY  
 Project Number: NONE GIVEN  
 Project Location: CHAVES CO, NM

 Sampling Date: 10/20/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: #1 H (H502737-05)**

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	10/22/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/22/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/22/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/22/2015	ND	5.77	96.2	6.00	2.27	
Total BTEx	<0.300	0.300	10/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/21/2015	ND	368	92.0	400	0.00	

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	173	10.0	10/21/2015	ND	210	105	200	6.00	
Total TPH C6-C28	173	10.0	10/21/2015	ND	417	104	400	5.29	

Surrogate: 1-Chlorooctane 90.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DUGAN PRODUCTION  
JOHN ALEXANDER  
P. O. BOX 420  
FARMINGTON NM, 87499  
Fax To: (505) 327-4043

Received: 10/20/2015  
Reported: 10/23/2015  
Project Name: K M BATTERY  
Project Number: NONE GIVEN  
Project Location: CHAVES CO, NM

Sampling Date: 10/20/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #2 H (H502737-06)**

BTX 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	10/23/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/23/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/23/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/23/2015	ND	5.77	96.2	6.00	2.27	
Total BTX	<0.300	0.300	10/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	10/21/2015	ND	368	92.0	400	0.00	

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	10/21/2015	ND	207	104	200	4.56	
DRO >C10-C28	272	10.0	10/21/2015	ND	210	105	200	6.00	
Total TPH C6-C28	272	10.0	10/21/2015	ND	417	104	400	5.29	

Surrogate: 1-Chlorooctane 91.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 DUGAN PRODUCTION  
 JOHN ALEXANDER  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 10/20/2015  
 Reported: 10/23/2015  
 Project Name: K M BATTERY  
 Project Number: NONE GIVEN  
 Project Location: CHAVES CO, NM

 Sampling Date: 10/20/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: #3 H (H502737-07)**

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	10/23/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/23/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/23/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/23/2015	ND	5.77	96.2	6.00	2.27	
Total BTEX	<0.300	0.300	10/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

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	10/21/2015	ND	416	104	400	0.00		

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	10/22/2015	ND	214	107	200	1.67	
DRO >C10-C28	392	10.0	10/22/2015	ND	218	109	200	0.773	
Total TPH C6-C28	392	10.0	10/22/2015	ND	432	108	400	1.22	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DUGAN PRODUCTION  
JOHN ALEXANDER  
P. O. BOX 420  
FARMINGTON NM, 87499  
Fax To: (505) 327-4043

Received: 10/20/2015  
Reported: 10/23/2015  
Project Name: K M BATTERY  
Project Number: NONE GIVEN  
Project Location: CHAVES CO, NM

Sampling Date: 10/20/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: #4 H (H502737-08)**

BTX 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	10/23/2015	ND	1.93	96.6	2.00	1.31	
Toluene*	<0.050	0.050	10/23/2015	ND	1.77	88.6	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/23/2015	ND	1.76	87.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	10/23/2015	ND	5.77	96.2	6.00	2.27	
Total BTX	<0.300	0.300	10/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

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	10/21/2015	ND	416	104	400	0.00	

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	10/22/2015	ND	214	107	200	1.67	
DRO >C10-C28	172	10.0	10/22/2015	ND	218	109	200	0.773	
Total TPH C6-C28	172	10.0	10/22/2015	ND	432	108	400	1.22	

Surrogate: 1-Chlorooctane 85.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.8 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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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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 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]