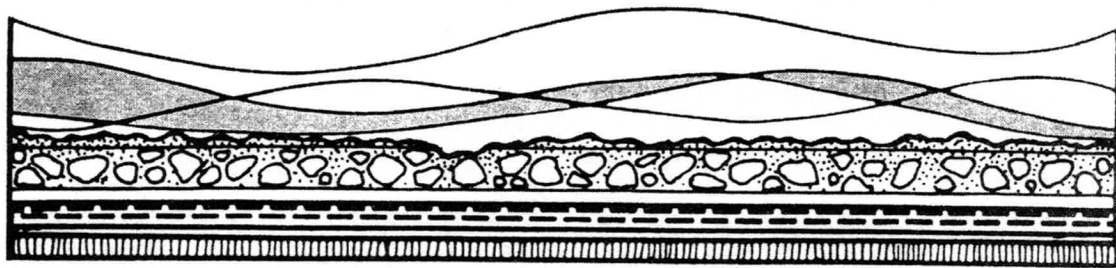


Lab Reports For Sample Date 2-26-2017



March 22, 2017

FOR: Emera, P.C.
 P.O. Box 2228
 Edmond, Oklahoma 73083

Type of Analysis: Evans & Associates, LE-1884 Big Fork Ranch GWMP # 6A

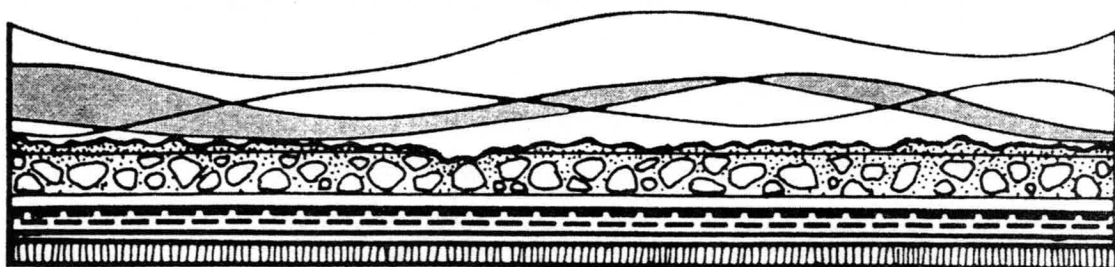
Date Sample Collected:	February 26, 2017	Date Sample Received:	February 28, 2017
Time Sample Collected:	2:00pm	Time Sample Received:	1:00pm
Received Temperature:		Received by:	C Peterson
Sample Temperature:	66.0°F	Sample #:	20170720
		Depth:	31.7'

<u>Parameter</u>	<u>Method Number</u>	<u>Date & Time Analyzed</u>		<u>By</u>	<u>Reported * Value</u>	<u>RL mg/l</u>	<u>% Recovery</u>	<u>% RDP</u>
pH Field pH	4500-H+B-2011	2/28/2017	1:10pm	CAP	6.92	0.01		
Dissolved Solids	2540-C-2011	3/1/2017	4:17pm	SW	460	3		2.7
Boron *	EPA 200.7	3/10/2017	4:19pm	AIP	<0.1	0.1	90.3	2.91
Calcium *	EPA 200.7	3/10/2017	4:19pm	AIP	81	0.1	84.4	2.78
Chloride	4500-CLC-2011	3/10/2017	2:32pm	SW	3	3		0.0
Fluoride *	EPA 300.0	3/9/2017	7:08pm	AIP	0.48	0.1	105.0	1.16
Sulfates *	EPA 300.0	3/9/2017	4:35pm	AIP	40.45	3	94.50	0.9

OK Lab #7704

* Samples analyzed by American Interplex

NOTE: Analysis performed in accordance with procedures outlined in 22nd Edition of "Standard Methods for the Examination of Water and Wastewater."
 pH is reported as units & other results as mg/l unless noted otherwise.



March 22, 2017

FOR: Emera, P.C.
 P.O. Box 2228
 Edmond, Oklahoma 73083

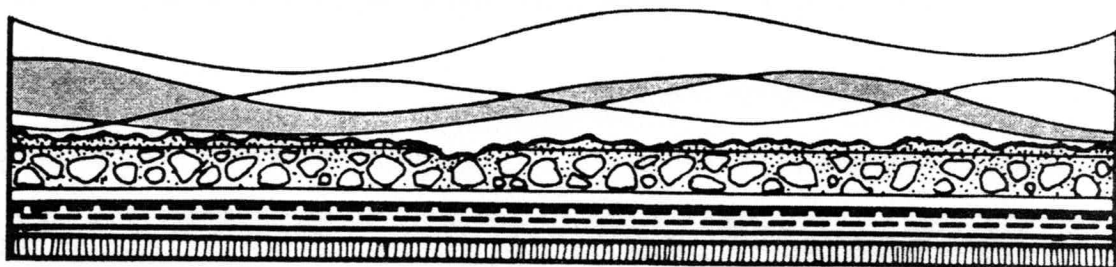
Type of Analysis: Evans & Associates, LE-1884 Big Fork Ranch GWMP # 8A

Date Sample Collected:	February 26, 2017	Date Sample Received:	February 28, 2017
Time Sample Collected:	1:40pm	Time Sample Received:	1:00pm
Received Temperature:		Received by:	C Peterson
Sample Temperature:	65.0°F	Sample #:	20170721
		Depth:	41.7'

<u>Parameter</u>	<u>Method Number</u>	<u>Date & Time Analyzed</u>		<u>By</u>	<u>Reported * Value</u>	<u>RL mg/l</u>	<u>% Recovery</u>	<u>% RDP</u>
pH Field pH	4500-H+B-2011	2/28/2017	1:12pm	CAP	7.44	0.01		
Dissolved Solids	2540-C-2011	3/1/2017	4:18pm	SW	352	3		2.7
Boron *	EPA 200.7	3/10/2017	4:23pm	AIP	0.12	0.1	90.3	2.91
Calcium *	EPA 200.7	3/10/2017	4:23pm	AIP	63	0.1	84.4	2.78
Chloride	4500-CLC-2011	3/10/2017	2:38pm	SW	3.5	3		0.0
Fluoride *	EPA 300.0	3/9/2017	7:27pm	AIP	0.39	0.1	105.0	1.16
Sulfates *	EPA 300.0	3/9/2017	4:37pm	AIP	37.21	3	94.50	0.9

OK Lab #7704 * Samples analyzed by American Interplex

NOTE: Analysis performed in accordance with procedures outlined in 22nd Edition of "Standard Methods for the Examination of Water and Wastewater." pH is reported as units & other results as mg/l unless noted otherwise.



March 22, 2017

FOR: Emera, P.C.
P.O. Box 2228
Edmond, Oklahoma 73083

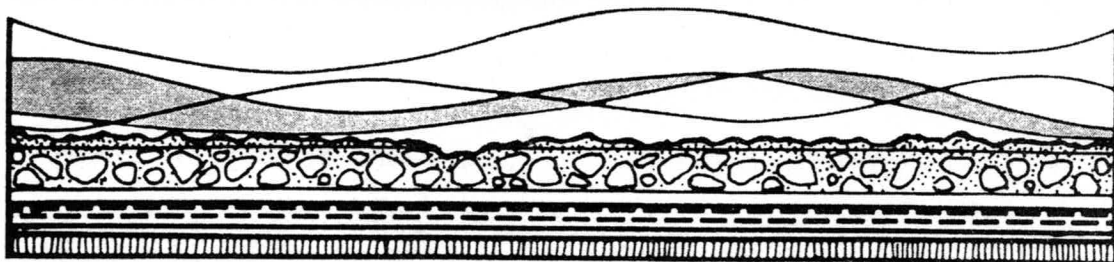
Type of Analysis: Evans & Associates, LE-1884 Big Fork Ranch GWMP # 9A

Date Sample Collected:	February 26, 2017	Date Sample Received:	February 28, 2017
Time Sample Collected:	2:20pm	Time Sample Received:	1:00pm
Received Temperature:		Received by:	C Peterson
Sample Temperature:	65.0°F	Sample #:	20170722
		Depth:	12.9'

<u>Parameter</u>	<u>Method Number</u>	<u>Date & Time Analyzed</u>		<u>By</u>	<u>Reported * Value</u>	<u>RL mg/l</u>	<u>% Recovery</u>	<u>% RDP</u>
pH Field pH	4500-H+B-2011	2/28/2017	1:14pm	CAP	7.75	0.01		
Dissolved Solids	2540-C-2011	3/1/2017	4:19pm	SW	496	3		2.7
Boron *	EPA 200.7	3/10/2017	4:28pm	AIP	1.2	0.1	90.3	2.91
Calcium *	EPA 200.7	3/10/2017	4:28pm	AIP	35	0.1	84.4	2.78
Chloride	4500-CLC-2011	3/10/2017	2:40pm	SW	7.5	3		0.0
Fluoride *	EPA 300.0	3/9/2017	7:45pm	AIP	0.76	0.1	105.0	1.16
Sulfates *	EPA 300.0	3/9/2017	4:40pm	AIP	93.18	3	94.50	0.9

OK Lab #7704 * Samples analyzed by American Interplex

NOTE: Analysis performed in accordance with procedures outlined in 22nd Edition of "Standard Methods for the Examination of Water and Wastewater."
pH is reported as units & other results as mg/l unless noted otherwise.



March 22, 2017

FOR: Emera, P.C.
 P.O. Box 2228
 Edmond, Oklahoma 73083

Type of Analysis: Evans & Associates, LE-1884 Big Fork Ranch GWMP # 10A

Date Sample Collected:	February 26, 2017	Date Sample Received:	February 28, 2017
Time Sample Collected:	2:35pm	Time Sample Received:	1:00pm
Received Temperature:		Received by:	C Peterson
Sample Temperature:	65.0°F	Sample #:	20170723
		Depth:	28.6'

<u>Parameter</u>	<u>Method Number</u>	<u>Date & Time Analyzed</u>		<u>By</u>	<u>Reported * Value</u>	<u>RL mg/l</u>	<u>% Recovery</u>	<u>% RDP</u>
pH Field pH	4500-H+B-2011	2/28/2017	1:17pm	CAP	7.19	0.01		
Dissolved Solids	2540-C-2011	3/1/2017	4:20pm	SW	1730	3		2.7
Boron *	EPA 200.7	3/10/2017	4:51pm	AIP	3.4	0.1	90.3	2.91
Calcium *	EPA 200.7	3/10/2017	4:51pm	AIP	130	0.1	84.4	2.78
Chloride	4500-CLC-2011	3/10/2017	2:42pm	SW	7	3		0.0
Fluoride *	EPA 300.0	3/9/2017	7:04pm	AIP	0.32	0.1	105.0	1.16
Sulfates *	EPA 300.0	3/9/2017	4:44pm	AIP	713.03	3	94.50	0.9

OK Lab #7704

* Samples analyzed by American Interplex

NOTE: Analysis performed in accordance with procedures outlined in 22nd Edition of "Standard Methods for the Examination of Water and Wastewater." pH is reported as units & other results as mg/l unless noted otherwise.

Lab Reports For Sample Date 7-29-2017



4619 N. Santa Fe
 Oklahoma City, OK 73118
 405.488.2400 Phone
 405.488.2404 Fax
 www.etilab.com

Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 08/08/17 12:27
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GWMP #6A

E7G0524-01 (Aqueous) - Sampled: 07/29/17 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.31		pH Units	1	EFH0055	ECF	08/02/17 10:30	SM 4500-H+ B	H-03
Total Dissolved Solids	372	100	mg/L	1	EFH0095	ECF	08/03/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.0705	0.0500	mg/L	1	EFH0057	LSB	08/03/17 13:57	EPA 200.7	
Calcium	89.8	1.00	mg/L	1	EFH0057	LSB	08/03/17 13:57	EPA 200.7	
Metals Digestion	Completed		N/A		EFH0057	LSB	08/02/17 19:15	EPA 200.7	

Anions by EPA Method 300.0

Chloride	1.73	0.160	mg/L	1	EFH0135	ECF	08/07/17 11:05	EPA 300.0	
Fluoride	0.433	0.100	mg/L	1	EFH0135	ECF	08/07/17 11:05	EPA 300.0	
Sulfate as SO4	26.5	1.50	mg/L	5	EFH0135	ECF	08/07/17 12:32	EPA 300.0	

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Original
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Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 08/08/17 12:27
--	--	-----------------------------

GWMP #8A

E7G0524-02 (Aqueous) - Sampled: 07/29/17 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.70		pH Units	1	EFH0055	ECF	08/02/17 10:30	SM 4500-H+ B	H-03
Total Dissolved Solids	422	100	mg/L	1	EFH0095	ECF	08/03/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.130	0.0500	mg/L	1	EFH0057	LSB	08/03/17 14:20	EPA 200.7	
Calcium	84.8	1.00	mg/L	1	EFH0057	LSB	08/03/17 14:20	EPA 200.7	
Metals Digestion	Completed		N/A		EFH0057	LSB	08/02/17 19:15	EPA 200.7	

Anions by EPA Method 300.0

Chloride	4.55	0.800	mg/L	5	EFH0135	ECF	08/07/17 12:49	EPA 300.0	
Fluoride	0.359	0.100	mg/L	1	EFH0135	ECF	08/07/17 11:23	EPA 300.0	
Sulfate as SO4	30.8	1.50	mg/L	5	EFH0135	ECF	08/07/17 12:49	EPA 300.0	

Environmental Testing, Inc.

Russell Britten, President

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Original
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Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 08/08/17 12:27
--	--	-----------------------------

GWMP #9A

E7G0524-03 (Aqueous) - Sampled: 07/29/17 14:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.97		pH Units	1	EFH0055	ECF	08/02/17 10:30	SM 4500-H+ B	H-03
Total Dissolved Solids	530	100	mg/L	1	EFH0095	ECF	08/03/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	1.21	0.0500	mg/L	1	EFH0057	LSB	08/03/17 14:24	EPA 200.7	
Calcium	35.3	1.00	mg/L	1	EFH0057	LSB	08/03/17 14:24	EPA 200.7	
Metals Digestion	Completed		N/A		EFH0057	LSB	08/02/17 19:15	EPA 200.7	

Anions by EPA Method 300.0

Chloride	18.8	16.0	mg/L	100	EFH0135	ECF	08/07/17 05:49	EPA 300.0	
Fluoride	0.747	0.100	mg/L	1	EFH0135	ECF	08/07/17 11:40	EPA 300.0	
Sulfate as SO4	111	30.0	mg/L	100	EFH0135	ECF	08/07/17 05:49	EPA 300.0	

Environmental Testing, Inc.

Russell Britten, President

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Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 08/08/17 12:27
--	--	-----------------------------

GWMP #10A
E7G0524-04 (Aqueous) - Sampled: 07/29/17 14:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.51		pH Units	1	EFH0055	ECF	08/02/17 10:30	SM 4500-H+ B	H-03
Total Dissolved Solids	1740	100	mg/L	1	EFH0095	ECF	08/03/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	3.13	0.0500	mg/L	1	EFH0057	LSB	08/03/17 14:28	EPA 200.7	
Calcium	124	1.00	mg/L	1	EFH0057	LSB	08/03/17 14:28	EPA 200.7	
Metals Digestion	Completed		N/A		EFH0057	LSB	08/02/17 19:15	EPA 200.7	

Anions by EPA Method 300.0

Chloride	29.6	8.00	mg/L	50	EFH0135	ECF	08/07/17 13:24	EPA 300.0	
Fluoride	0.533	0.500	mg/L	5	EFH0135	ECF	08/07/17 11:57	EPA 300.0	
Sulfate as SO4	677	15.0	mg/L	50	EFH0135	ECF	08/07/17 13:24	EPA 300.0	

Environmental Testing, Inc.

Russell Britten, President

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Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 08/08/17 12:27
--	--	-----------------------------

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------------

Batch EFH0055 - General Prep - Wet Chem (Aq)

LCS (EFH0055-BS1)				Prepared & Analyzed: 08/02/17						
pH	7.00		pH Units	7.00		100	99-101			
Duplicate (EFH0055-DUP1)				Source: E7G0487-01		Prepared & Analyzed: 08/02/17				
pH	7.64		pH Units		7.68			0.5	20	

Batch EFH0095 - General Prep - Wet Chem (Aq)

Blank (EFH0095-BLK1)				Prepared: 08/02/17 Analyzed: 08/03/17						
Total Dissolved Solids	<50.0	50.0	mg/L							
LCS (EFH0095-BS1)				Prepared: 08/02/17 Analyzed: 08/03/17						
Total Dissolved Solids	1010	100	mg/L	1000		101	80-120			
Duplicate (EFH0095-DUP1)				Source: E7H0038-01		Prepared: 08/02/17 Analyzed: 08/03/17				
Total Dissolved Solids	3160	167	mg/L		3200			1	20	

Environmental Testing, Inc.

Russell Britten, President

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Emera Corp.
 P.O. Box 2228
 Edmond OK, 73083

Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 08/08/17 12:27

QUALITY CONTROL

Metals by EPA 200 Series Methods
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFH0057 - EPA 200.7										
Blank (EFH0057-BLK1)										
				Prepared: 08/02/17 Analyzed: 08/03/17						
Boron	<0.0500	0.0500	mg/L							
Calcium	<1.00	1.00	mg/L							
Metals Digestion	Completed		N/A							
LCS (EFH0057-BS1)										
				Prepared: 08/02/17 Analyzed: 08/03/17						
Boron	0.516	0.0500	mg/L	0.500		103	85-115			
Calcium	20.4	1.00	mg/L	20.0		102	85-115			
Metals Digestion	Completed		N/A							
Duplicate (EFH0057-DUP1)										
				Source: E7H0043-01			Prepared: 08/02/17 Analyzed: 08/03/17			
Boron	0.0771	0.0500	mg/L		0.0746			3	20	
Calcium	99.1	1.00	mg/L		97.0			2	20	
Metals Digestion	Completed		N/A							
Matrix Spike (EFH0057-MS1)										
				Source: E7H0043-01			Prepared: 08/02/17 Analyzed: 08/03/17			
Boron	0.606	0.0500	mg/L	0.500	0.0746	106	70-130			
Calcium	114	1.00	mg/L	20.0	97.0	85	70-130			
Metals Digestion	Completed		N/A							
Matrix Spike Dup (EFH0057-MSD1)										
				Source: E7H0043-01			Prepared: 08/02/17 Analyzed: 08/03/17			
Boron	0.609	0.0500	mg/L	0.500	0.0746	107	70-130	0.5	20	
Calcium	116	1.00	mg/L	20.0	97.0	97	70-130	2	20	
Metals Digestion	Completed		N/A							

Environmental Testing, Inc.

Russell Britten, President

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Emera Corp.
 P.O. Box 2228
 Edmond OK, 73083

Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 08/08/17 12:27

QUALITY CONTROL

Anions by EPA Method 300.0
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFH0135 - General Prep - Wet Chem (Aq)

Blank (EFH0135-BLK1)

Prepared: 08/06/17 Analyzed: 08/07/17

Chloride	<0.160	0.160	mg/L							
Fluoride	<0.100	0.100	mg/L							
Sulfate as SO4	<0.300	0.300	mg/L							

LCS (EFH0135-BS1)

Prepared: 08/06/17 Analyzed: 08/07/17

Chloride	0.608	0.160	mg/L	0.600		101	90-110			
Fluoride	0.392	0.100	mg/L	0.400		98	90-110			
Sulfate as SO4	2.99	0.300	mg/L	3.00		100	90-110			

Matrix Spike (EFH0135-MS1)

Source: E7G0503-01

Prepared: 08/06/17 Analyzed: 08/07/17

Chloride	8390	800	mg/L	3000	5350	101	80-120			
Fluoride	1940	500	mg/L	2000	ND	97	80-120			
Sulfate as SO4	19700	1500	mg/L	15000	4940	98	80-120			

Matrix Spike Dup (EFH0135-MSD1)

Source: E7G0503-01

Prepared: 08/06/17 Analyzed: 08/07/17

Chloride	8260	800	mg/L	3000	5350	97	80-120	2	20	
Fluoride	1930	500	mg/L	2000	ND	97	80-120	0.4	20	
Sulfate as SO4	19600	1500	mg/L	15000	4940	98	80-120	0.5	20	

Environmental Testing, Inc.

Russell Britten, President

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Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 08/08/17 12:27
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Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2018
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2016-009	08/31/2017
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

Environmental Testing, Inc.

Russell Britten, President

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Emera Corp.
P.O. Box 2228
Edmond OK, 73083

Project: Sec. 5&8, T24N, R3E, Noble Co., OK
Project Number: Evans & Associates
Project Manager: Mr. Saeed Zahrai

Reported:
08/08/17 12:27

Qualifiers and Definitions

COM	Completed
H-03	Sample was received and analyzed past the method holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

Environmental Testing, Inc.

Russell Britten, President

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Lab Reports For Sample Date 9-10-2017



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Emera Corp.
 P.O. Box 2228
 Edmond OK, 73083

Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 09/19/17 12:56

GWMP #6A

E710145-01 (Aqueous) - Sampled: 09/10/17 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.72		pH Units	1	EFI0236	ECF	09/14/17 09:30	SM 4500-H+ B	H-03
Total Dissolved Solids	330	100	mg/L	1	EFI0265	ECF	09/15/17 10:00	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.0704	0.0500	mg/L	1	EFI0282	LSB	09/18/17 12:44	EPA 200.7	
Calcium	105	1.00	mg/L	1	EFI0282	LSB	09/18/17 12:44	EPA 200.7	
Metals Digestion	Completed		N/A		EFI0282	LSB	09/15/17 18:20	EPA 200.7	

Anions by EPA Method 300.0

Chloride	1.99	0.160	mg/L	1	EFI0179	ECF	09/14/17 13:23	EPA 300.0	
Fluoride	0.415	0.100	mg/L	1	EFI0179	ECF	09/14/17 13:23	EPA 300.0	
Sulfate as SO4	32.3	30.0	mg/L	100	EFI0179	ECF	09/12/17 18:03	EPA 300.0	

Environmental Testing, Inc.

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Emera Corp. P.O. Box 2228 Edmond OK, 73083	Project: Sec. 5&8, T24N, R3E, Noble Co., OK Project Number: Evans & Associates Project Manager: Mr. Saeed Zahrai	Reported: 09/19/17 12:56
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GWMP #8A

E7I0145-02 (Aqueous) - Sampled: 09/10/17 11:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.51		pH Units	1	EFI0236	ECF	09/14/17 09:30	SM 4500-H+ B	H-03
Total Dissolved Solids	316	100	mg/L	1	EFI0265	ECF	09/15/17 10:00	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.111	0.0500	mg/L	1	EFI0282	LSB	09/18/17 12:47	EPA 200.7	
Calcium	92.1	1.00	mg/L	1	EFI0282	LSB	09/18/17 12:47	EPA 200.7	
Metals Digestion	Completed		N/A		EFI0282	LSB	09/15/17 18:20	EPA 200.7	

Anions by EPA Method 300.0

Chloride	4.61	1.60	mg/L	10	EFI0179	ECF	09/14/17 14:49	EPA 300.0	
Fluoride	0.346	0.100	mg/L	1	EFI0179	ECF	09/14/17 13:40	EPA 300.0	
Sulfate as SO4	31.5	3.00	mg/L	10	EFI0179	ECF	09/14/17 14:49	EPA 300.0	

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 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 09/19/17 12:56

GWMP #9A

E7I0145-03 (Aqueous) - Sampled: 09/10/17 12:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.87		pH Units	1	EFI0236	ECF	09/14/17 09:30	SM 4500-H+ B	H-03
Total Dissolved Solids	454	100	mg/L	1	EFI0265	ECF	09/15/17 10:00	SM 2540C	

Metals by EPA 200 Series Methods

Boron	1.32	0.0500	mg/L	1	EFI0282	LSB	09/18/17 12:51	EPA 200.7	
Calcium	44.8	1.00	mg/L	1	EFI0282	LSB	09/18/17 12:51	EPA 200.7	
Metals Digestion	Completed		N/A		EFI0282	LSB	09/15/17 18:20	EPA 200.7	

Anions by EPA Method 300.0

Chloride	17.1	16.0	mg/L	100	EFI0179	ECF	09/12/17 18:38	EPA 300.0	
Fluoride	0.717	0.100	mg/L	1	EFI0179	ECF	09/14/17 13:57	EPA 300.0	
Sulfate as SO4	106	30.0	mg/L	100	EFI0179	ECF	09/12/17 18:38	EPA 300.0	

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 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 09/19/17 12:56

GWMP #10A

E710145-04 (Aqueous) - Sampled: 09/10/17 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.94		pH Units	1	EFI0236	ECF	09/14/17 09:30	SM 4500-H+ B	H-03
Total Dissolved Solids	2080	100	mg/L	1	EFI0265	ECF	09/15/17 10:00	SM 2540C	

Metals by EPA 200 Series Methods

Boron	4.40	0.0500	mg/L	1	EFI0282	LSB	09/18/17 12:55	EPA 200.7	
Calcium	166	1.00	mg/L	1	EFI0282	LSB	09/18/17 12:55	EPA 200.7	
Metals Digestion	Completed		N/A		EFI0282	LSB	09/15/17 18:20	EPA 200.7	

Anions by EPA Method 300.0

Chloride	26.5	1.60	mg/L	10	EFI0179	ECF	09/14/17 14:15	EPA 300.0	
Fluoride	<1.00	1.00	mg/L	10	EFI0179	ECF	09/14/17 14:15	EPA 300.0	
Sulfate as SO4	914	30.0	mg/L	100	EFI0179	ECF	09/12/17 18:55	EPA 300.0	

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 Project Manager: Mr. Saeed Zahrai

Reported:
 09/19/17 12:56

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFI0236 - General Prep - Wet Chem (Aq)										
LCS (EFI0236-BS1)				Prepared & Analyzed: 09/14/17						
pH	6.99		pH Units	7.00		100	99-101			
Duplicate (EFI0236-DUP1)				Source: E710163-01		Prepared & Analyzed: 09/14/17				
pH	7.17		pH Units		7.18			0.1	20	
Batch EFI0265 - General Prep - Wet Chem (Aq)										
Blank (EFI0265-BLK1)				Prepared: 09/14/17 Analyzed: 09/15/17						
Total Dissolved Solids	<50.0	50.0	mg/L							
LCS (EFI0265-BS1)				Prepared: 09/14/17 Analyzed: 09/15/17						
Total Dissolved Solids	964	100	mg/L	1000		96	80-120			
Duplicate (EFI0265-DUP1)				Source: E710226-01		Prepared: 09/14/17 Analyzed: 09/15/17				
Total Dissolved Solids	2420	100	mg/L		2400			0.9	20	
Duplicate (EFI0265-DUP2)				Source: E710226-02		Prepared: 09/14/17 Analyzed: 09/15/17				
Total Dissolved Solids	1570	100	mg/L		1540			2	20	

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 Project Manager: Mr. Saeed Zahrai

Reported:
 09/19/17 12:56

QUALITY CONTROL

Metals by EPA 200 Series Methods Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFI0282 - EPA 200.7

Blank (EFI0282-BLK1)

Prepared: 09/15/17 Analyzed: 09/18/17

Boron	<0.0500	0.0500	mg/L							
Calcium	<1.00	1.00	mg/L							
Metals Digestion	Completed		N/A							

LCS (EFI0282-BS1)

Prepared: 09/15/17 Analyzed: 09/18/17

Boron	0.503	0.0500	mg/L	0.500		101	85-115			
Calcium	20.9	1.00	mg/L	20.0		105	85-115			
Metals Digestion	Completed		N/A							

Duplicate (EFI0282-DUP1)

Source: E7I0163-01RE1

Prepared: 09/15/17 Analyzed: 09/18/17

Boron	0.0279	0.0500	mg/L		0.0282			1	20	
Calcium	320	1.00	mg/L		317			0.9	20	
Metals Digestion	Completed		N/A							

Matrix Spike (EFI0282-MS1)

Source: E7I0163-01RE1

Prepared: 09/15/17 Analyzed: 09/18/17

Boron	0.581	0.0500	mg/L	0.500	0.0282	110	70-130			
Calcium	335	1.00	mg/L	20.0	317	88	70-130			
Metals Digestion	Completed		N/A							

Matrix Spike Dup (EFI0282-MSD1)

Source: E7I0163-01RE1

Prepared: 09/15/17 Analyzed: 09/18/17

Boron	0.589	0.0500	mg/L	0.500	0.0282	112	70-130	1	20	
Calcium	336	1.00	mg/L	20.0	317	92	70-130	0.2	20	
Metals Digestion	Completed		N/A							

Environmental Testing, Inc.

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Reported:
 09/19/17 12:56

QUALITY CONTROL

Anions by EPA Method 300.0
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFI0179 - General Prep - Wet Chem (Aq)

Blank (EFI0179-BLK1)

Prepared & Analyzed: 09/12/17

Chloride	<0.160	0.160	mg/L							
Fluoride	<0.100	0.100	mg/L							
Sulfate as SO4	<0.300	0.300	mg/L							

LCS (EFI0179-BS1)

Prepared & Analyzed: 09/12/17

Chloride	0.584	0.160	mg/L	0.600		97	90-110			
Fluoride	0.400	0.100	mg/L	0.400		100	90-110			
Sulfate as SO4	2.98	0.300	mg/L	3.00		99	90-110			

Matrix Spike (EFI0179-MS1)

Source: E710050-01

Prepared & Analyzed: 09/12/17

Chloride	1360	160	mg/L	600	782	96	80-120			
Fluoride	411	100	mg/L	400	ND	103	80-120			
Sulfate as SO4	3050	300	mg/L	3000	136	97	80-120			

Matrix Spike Dup (EFI0179-MSD1)

Source: E710050-01

Prepared & Analyzed: 09/12/17

Chloride	1370	160	mg/L	600	782	98	80-120	0.7	20	
Fluoride	409	100	mg/L	400	ND	102	80-120	0.5	20	
Sulfate as SO4	3020	300	mg/L	3000	136	96	80-120	0.9	20	

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 Project Manager: Mr. Saeed Zahrai

Reported:
 09/19/17 12:56

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2018
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2017-128	08/31/2018
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

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Project Number: Evans & Associates
Project Manager: Mr. Saeed Zahrai

Reported:
09/19/17 12:56

Qualifiers and Definitions

COM	Completed
H-03	Sample was received and analyzed past the method holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

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Lab Reports For Sample Date 10-14-2017



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GWMP #6A

E7J0270-01 (Aqueous) - Sampled: 10/14/17 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.72		pH Units	1	EFJ0425	BLS	10/20/17 11:10	SM 4500-H+ B	H-03
Total Dissolved Solids	380	100	mg/L	1	EFJ0399	ECF	10/19/17 12:30	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.0654	0.0500	mg/L	1	EFJ0450	LSB	10/23/17 13:13	EPA 200.7	
Calcium	97.3	1.00	mg/L	1	EFJ0450	LSB	10/23/17 13:13	EPA 200.7	
Metals Digestion	Completed		N/A		EFJ0450	LSB	10/20/17 17:25	EPA 200.7	

Anions by EPA Method 300.0

Chloride	1.53	0.160	mg/L	1	EFJ0326	BLS	10/17/17 10:48	EPA 300.0	
Fluoride	0.394	0.100	mg/L	1	EFJ0326	BLS	10/17/17 10:48	EPA 300.0	
Sulfate as SO4	26.4	1.50	mg/L	5	EFJ0326	BLS	10/17/17 18:36	EPA 300.0	

Environmental Testing, Inc.

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GWMP #8A

E7J0270-02 (Aqueous) - Sampled: 10/14/17 10:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.57		pH Units	1	EFJ0425	BLS	10/20/17 11:10	SM 4500-H+ B	H-03
Total Dissolved Solids	372	100	mg/L	1	EFJ0399	ECF	10/19/17 12:30	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.108	0.0500	mg/L	1	EFJ0450	LSB	10/23/17 13:32	EPA 200.7	
Calcium	74.7	1.00	mg/L	1	EFJ0450	LSB	10/23/17 13:32	EPA 200.7	
Metals Digestion	Completed		N/A		EFJ0450	LSB	10/20/17 17:25	EPA 200.7	

Anions by EPA Method 300.0

Chloride	3.78	0.800	mg/L	5	EFJ0326	BLS	10/17/17 18:54	EPA 300.0	
Fluoride	0.310	0.100	mg/L	1	EFJ0326	BLS	10/17/17 11:05	EPA 300.0	
Sulfate as SO4	32.3	1.50	mg/L	5	EFJ0326	BLS	10/17/17 18:54	EPA 300.0	

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GWMP #9A
E7J0270-03 (Aqueous) - Sampled: 10/14/17 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	8.26		pH Units	1	EFJ0425	BLS	10/20/17 11:10	SM 4500-H+ B	H-03
Total Dissolved Solids	510	100	mg/L	1	EFJ0399	ECF	10/19/17 12:30	SM 2540C	

Metals by EPA 200 Series Methods

Boron	1.36	0.0500	mg/L	1	EFJ0450	LSB	10/23/17 13:36	EPA 200.7	
Calcium	36.8	1.00	mg/L	1	EFJ0450	LSB	10/23/17 13:36	EPA 200.7	
Metals Digestion	Completed		N/A		EFJ0450	LSB	10/20/17 17:25	EPA 200.7	

Anions by EPA Method 300.0

Chloride	16.4	1.60	mg/L	10	EFJ0326	BLS	10/17/17 19:11	EPA 300.0	
Fluoride	0.679	0.100	mg/L	1	EFJ0326	BLS	10/17/17 11:23	EPA 300.0	
Sulfate as SO4	101	3.00	mg/L	10	EFJ0326	BLS	10/17/17 19:11	EPA 300.0	

Environmental Testing, Inc.

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GWMP #10A

E7J0270-04 (Aqueous) - Sampled: 10/14/17 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.42		pH Units	1	EFJ0425	BLS	10/20/17 11:10	SM 4500-H+ B	H-03
Total Dissolved Solids	2140	100	mg/L	1	EFJ0399	ECF	10/19/17 12:30	SM 2540C	

Metals by EPA 200 Series Methods

Boron	4.52	0.0500	mg/L	1	EFJ0450	LSB	10/23/17 13:55	EPA 200.7	
Calcium	167	1.00	mg/L	1	EFJ0450	LSB	10/23/17 13:55	EPA 200.7	
Metals Digestion	Completed		N/A		EFJ0450	LSB	10/20/17 17:25	EPA 200.7	

Anions by EPA Method 300.0

Chloride	27.3	8.00	mg/L	50	EFJ0326	BLS	10/17/17 19:28	EPA 300.0	
Fluoride	<0.500	0.500	mg/L	5	EFJ0326	BLS	10/17/17 11:40	EPA 300.0	
Sulfate as SO4	1140	150	mg/L	500	EFJ0326	BLS	10/17/17 19:46	EPA 300.0	

Environmental Testing, Inc.

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QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFJ0399 - General Prep - Wet Chem (Aq)

Blank (EFJ0399-BLK1)				Prepared: 10/18/17 Analyzed: 10/19/17					
Total Dissolved Solids	<50.0	50.0	mg/L						

LCS (EFJ0399-BS1)				Prepared: 10/18/17 Analyzed: 10/19/17					
Total Dissolved Solids	1000	100	mg/L	1000		100	80-120		

Duplicate (EFJ0399-DUP1)				Source: E7J0301-01		Prepared: 10/18/17 Analyzed: 10/19/17			
Total Dissolved Solids	15900	1000	mg/L		15500			2	20

Duplicate (EFJ0399-DUP2)				Source: E7J0314-04		Prepared: 10/18/17 Analyzed: 10/19/17			
Total Dissolved Solids	2460	100	mg/L		2440			0.7	20

Batch EFJ0425 - General Prep - Wet Chem (Aq)

LCS (EFJ0425-BS1)				Prepared & Analyzed: 10/20/17					
pH	7.00		pH Units	7.00		100	99-101		

Duplicate (EFJ0425-DUP1)				Source: E7J0313-01		Prepared & Analyzed: 10/20/17			
pH	7.85		pH Units		7.90			0.6	20

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

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Emera Corp.
 P.O. Box 2228
 Edmond OK, 73083

Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 10/23/17 16:45

QUALITY CONTROL

Metals by EPA 200 Series Methods
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFJ0450 - EPA 200.7

Blank (EFJ0450-BLK1)

Prepared: 10/20/17 Analyzed: 10/23/17

Boron	<0.0500	0.0500	mg/L							
Calcium	<1.00	1.00	mg/L							
Metals Digestion	Completed		N/A							

LCS (EFJ0450-BS1)

Prepared: 10/20/17 Analyzed: 10/23/17

Boron	0.520	0.0500	mg/L	0.500		104	85-115			
Calcium	21.1	1.00	mg/L	20.0		106	85-115			
Metals Digestion	Completed		N/A							

Duplicate (EFJ0450-DUP1)

Source: E7J0270-01

Prepared: 10/20/17 Analyzed: 10/23/17

Boron	0.0692	0.0500	mg/L		0.0654			6	20	
Calcium	102	1.00	mg/L		97.3			5	20	
Metals Digestion	Completed		N/A							

Matrix Spike (EFJ0450-MS1)

Source: E7J0270-01

Prepared: 10/20/17 Analyzed: 10/23/17

Boron	0.602	0.0500	mg/L	0.500	0.0654	107	70-130			
Calcium	117	1.00	mg/L	20.0	97.3	100	70-130			
Metals Digestion	Completed		N/A							

Matrix Spike Dup (EFJ0450-MSD1)

Source: E7J0270-01

Prepared: 10/20/17 Analyzed: 10/23/17

Boron	0.603	0.0500	mg/L	0.500	0.0654	108	70-130	0.3	20	
Calcium	118	1.00	mg/L	20.0	97.3	102	70-130	0.4	20	
Metals Digestion	Completed		N/A							

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Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 10/23/17 16:45

QUALITY CONTROL

Anions by EPA Method 300.0
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFJ0326 - General Prep - Wet Chem (Aq)

Blank (EFJ0326-BLK1)

Prepared & Analyzed: 10/17/17

Chloride	<0.160	0.160	mg/L							
Fluoride	<0.100	0.100	mg/L							
Sulfate as SO4	<0.300	0.300	mg/L							

LCS (EFJ0326-BS1)

Prepared & Analyzed: 10/17/17

Chloride	0.628	0.160	mg/L	0.600		105	90-110			
Fluoride	0.385	0.100	mg/L	0.400		96	90-110			
Sulfate as SO4	3.04	0.300	mg/L	3.00		101	90-110			

Matrix Spike (EFJ0326-MS1)

Source: E7J0266-01

Prepared & Analyzed: 10/17/17

Chloride	49.2	8.00	mg/L	30.0	19.3	100	80-120			
Fluoride	18.6	5.00	mg/L	20.0	ND	93	80-120			
Sulfate as SO4	257	15.0	mg/L	150	111	97	80-120			

Matrix Spike Dup (EFJ0326-MSD1)

Source: E7J0266-01

Prepared & Analyzed: 10/17/17

Chloride	48.2	8.00	mg/L	30.0	19.3	96	80-120	2	20	
Fluoride	18.9	5.00	mg/L	20.0	ND	95	80-120	2	20	
Sulfate as SO4	255	15.0	mg/L	150	111	96	80-120	0.8	20	

Environmental Testing, Inc.

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Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2018
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2017-128	08/31/2018
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

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Qualifiers and Definitions

COM	Completed
H-03	Sample was received and analyzed past the method holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

Environmental Testing, Inc.

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Lab Reports For Sample Date 11-11-017



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Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 11/21/17 17:08

GWMP #6A

E7K0225-01 (Aqueous) - Sampled: 11/11/17 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.27		pH Units	1	EFK0282	BLS	11/15/17 11:00	SM 4500-H+ B	H-03
Total Dissolved Solids	380	100	mg/L	1	EFK0257	BLS	11/14/17 12:50	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.0766	0.0500	mg/L	1	EFK0293	LSB	11/16/17 13:56	EPA 200.7	
Calcium	99.4	1.00	mg/L	1	EFK0293	LSB	11/16/17 13:56	EPA 200.7	
Metals Digestion	Completed		N/A		EFK0293	LSB	11/15/17 17:45	EPA 200.7	

Anions by EPA Method 300.0

Chloride	1.29	0.800	mg/L	5	EFK0353	BLS	11/20/17 05:21	EPA 300.0	
Fluoride	0.412	0.100	mg/L	1	EFK0396	BLS	11/20/17 19:52	EPA 300.0	
Sulfate as SO ₄	26.5	1.50	mg/L	5	EFK0353	BLS	11/20/17 05:21	EPA 300.0	

Environmental Testing, Inc.

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GWMP #8A

E7K0225-02 (Aqueous) - Sampled: 11/11/17 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.53		pH Units	1	EFK0282	BLS	11/15/17 11:00	SM 4500-H+ B	H-03
Total Dissolved Solids	354	100	mg/L	1	EFK0314	ECF	11/16/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	1.36	0.0500	mg/L	1	EFK0293	LSB	11/16/17 14:00	EPA 200.7	
Calcium	38.9	1.00	mg/L	1	EFK0293	LSB	11/16/17 14:00	EPA 200.7	
Metals Digestion	Completed		N/A		EFK0293	LSB	11/15/17 17:45	EPA 200.7	

Anions by EPA Method 300.0

Chloride	3.57	0.800	mg/L	5	EFK0353	BLS	11/20/17 05:38	EPA 300.0	
Fluoride	0.322	0.100	mg/L	1	EFK0396	BLS	11/20/17 20:09	EPA 300.0	
Sulfate as SO4	31.9	1.50	mg/L	5	EFK0353	BLS	11/20/17 05:38	EPA 300.0	

Environmental Testing, Inc.

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GWMP #9A

E7K0225-03 (Aqueous) - Sampled: 11/11/17 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	7.81		pH Units	1	EFK0282	BLS	11/15/17 11:00	SM 4500-H+ B	H-03
Total Dissolved Solids	516	100	mg/L	1	EFK0314	ECF	11/16/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	0.109	0.0500	mg/L	1	EFK0293	LSB	11/16/17 14:04	EPA 200.7	
Calcium	73.7	1.00	mg/L	1	EFK0293	LSB	11/16/17 14:04	EPA 200.7	
Metals Digestion	Completed		N/A		EFK0293	LSB	11/15/17 17:45	EPA 200.7	

Anions by EPA Method 300.0

Chloride	17.7	8.00	mg/L	50	EFK0353	BLS	11/18/17 01:05	EPA 300.0	
Fluoride	0.703	0.100	mg/L	1	EFK0396	BLS	11/20/17 20:26	EPA 300.0	
Sulfate as SO ₄	96.8	15.0	mg/L	50	EFK0353	BLS	11/18/17 01:05	EPA 300.0	

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GWMP #10A

E7K0225-04 (Aqueous) - Sampled: 11/11/17 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
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Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods

pH	6.95		pH Units	1	EFK0282	BLS	11/15/17 11:00	SM 4500-H+ B	H-03
Total Dissolved Solids	1940	100	mg/L	1	EFK0314	ECF	11/16/17 12:45	SM 2540C	

Metals by EPA 200 Series Methods

Boron	4.17	0.0500	mg/L	1	EFK0293	LSB	11/16/17 14:08	EPA 200.7	
Calcium	134	1.00	mg/L	1	EFK0293	LSB	11/16/17 14:08	EPA 200.7	
Metals Digestion	Completed		N/A		EFK0293	LSB	11/15/17 17:45	EPA 200.7	

Anions by EPA Method 300.0

Chloride	78.9	8.00	mg/L	50	EFK0353	BLS	11/18/17 01:23	EPA 300.0	
Fluoride	0.394	0.100	mg/L	1	EFK0396	BLS	11/20/17 20:42	EPA 300.0	
Sulfate as SO4	804	30.0	mg/L	100	EFK0353	BLS	11/21/17 14:02	EPA 300.0	

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Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 11/21/17 17:08

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFK0257 - General Prep - Wet Chem (Aq)

Blank (EFK0257-BLK1)				Prepared: 11/13/17 Analyzed: 11/14/17						
Total Dissolved Solids	<50.0	50.0	mg/L							

LCS (EFK0257-BS1)				Prepared: 11/13/17 Analyzed: 11/14/17						
Total Dissolved Solids	974	100	mg/L	1000		97	80-120			

Duplicate (EFK0257-DUP1)		Source: E7K0194-03			Prepared: 11/13/17 Analyzed: 11/14/17					
Total Dissolved Solids	88600	5000	mg/L		87900			0.8	20	

Batch EFK0282 - General Prep - Wet Chem (Aq)

LCS (EFK0282-BS1)				Prepared & Analyzed: 11/15/17						
pH	7.03		pH Units	7.00		100	99-101			

Duplicate (EFK0282-DUP1)		Source: E7K0190-01			Prepared & Analyzed: 11/15/17					
pH	7.87		pH Units		7.88			0.1	20	

Batch EFK0314 - General Prep - Wet Chem (Aq)

Blank (EFK0314-BLK1)				Prepared: 11/15/17 Analyzed: 11/16/17						
Total Dissolved Solids	<50.0	50.0	mg/L							

LCS (EFK0314-BS1)				Prepared: 11/15/17 Analyzed: 11/16/17						
Total Dissolved Solids	928	100	mg/L	1000		93	80-120			

Duplicate (EFK0314-DUP1)		Source: E7K0225-02			Prepared: 11/15/17 Analyzed: 11/16/17					
Total Dissolved Solids	358	100	mg/L		354			1	20	

Environmental Testing, Inc.

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 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
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QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFK0314 - General Prep - Wet Chem (Aq)

Duplicate (EFK0314-DUP2)

Source: E7K0271-04

Prepared: 11/15/17 Analyzed: 11/16/17

Total Dissolved Solids	1860	100	mg/L		1850			0.8	20	
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 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 11/21/17 17:08

QUALITY CONTROL

Metals by EPA 200 Series Methods
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFK0293 - EPA 200.7										
Blank (EFK0293-BLK1)										
				Prepared: 11/15/17 Analyzed: 11/16/17						
Boron	<0.0500	0.0500	mg/L							
Calcium	<1.00	1.00	mg/L							
Metals Digestion	Completed		N/A							
LCS (EFK0293-BS1)										
				Prepared: 11/15/17 Analyzed: 11/16/17						
Boron	0.522	0.0500	mg/L	0.500		104	85-115			
Calcium	20.9	1.00	mg/L	20.0		105	85-115			
Metals Digestion	Completed		N/A							
Duplicate (EFK0293-DUP1)										
				Source: E7K0219-03			Prepared: 11/15/17 Analyzed: 11/16/17			
Boron	0.0117	0.0500	mg/L		0.0121			3	20	
Calcium	0.333	1.00	mg/L		0.370			11	20	
Metals Digestion	Completed		N/A							
Matrix Spike (EFK0293-MS1)										
				Source: E7K0219-03			Prepared: 11/15/17 Analyzed: 11/16/17			
Boron	0.567	0.0500	mg/L	0.500	0.0121	111	70-130			
Calcium	20.4	1.00	mg/L	20.0	0.370	100	70-130			
Metals Digestion	Completed		N/A							
Matrix Spike Dup (EFK0293-MSD1)										
				Source: E7K0219-03			Prepared: 11/15/17 Analyzed: 11/16/17			
Boron	0.564	0.0500	mg/L	0.500	0.0121	110	70-130	0.5	20	
Calcium	20.2	1.00	mg/L	20.0	0.370	99	70-130	0.9	20	
Metals Digestion	Completed		N/A							

Environmental Testing, Inc.

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 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 11/21/17 17:08

QUALITY CONTROL

Anions by EPA Method 300.0
 Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch EFK0353 - General Prep - Wet Chem (Aq)

Blank (EFK0353-BLK1)

Prepared & Analyzed: 11/17/17

Chloride	<0.160	0.160	mg/L							
Sulfate as SO4	<0.300	0.300	mg/L							

LCS (EFK0353-BS1)

Prepared & Analyzed: 11/17/17

Chloride	0.603	0.160	mg/L	0.600		101	90-110			
Sulfate as SO4	2.87	0.300	mg/L	3.00		96	90-110			

Matrix Spike (EFK0353-MS1)

Source: E7K0188-01

Prepared & Analyzed: 11/17/17

Chloride	165000	8000	mg/L	30000	135000	101	80-120			
Sulfate as SO4	145000	15000	mg/L	150000	ND	97	80-120			

Matrix Spike Dup (EFK0353-MSD1)

Source: E7K0188-01

Prepared & Analyzed: 11/17/17

Chloride	174000	8000	mg/L	30000	135000	132	80-120	5	20	M-02
Sulfate as SO4	146000	15000	mg/L	150000	ND	97	80-120	0.8	20	

Batch EFK0396 - General Prep - Wet Chem (Aq)

Blank (EFK0396-BLK1)

Prepared & Analyzed: 11/20/17

Fluoride	<0.100	0.100	mg/L							
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LCS (EFK0396-BS1)

Prepared & Analyzed: 11/20/17

Fluoride	0.391	0.100	mg/L	0.400		98	90-110			
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Matrix Spike (EFK0396-MS1)

Source: E7K0262-01

Prepared & Analyzed: 11/20/17

Fluoride	199	50.0	mg/L	200	ND	100	80-120			
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Matrix Spike Dup (EFK0396-MSD1)

Source: E7K0262-01

Prepared & Analyzed: 11/20/17

Fluoride	199	50.0	mg/L	200	ND	100	80-120	0.03	20	
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Environmental Testing, Inc.

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Project: Sec. 5&8, T24N, R3E, Noble Co., OK
 Project Number: Evans & Associates
 Project Manager: Mr. Saeed Zahrai

Reported:
 11/21/17 17:08

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2018
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2017-128	08/31/2018
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

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Emera Corp.
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Project: Sec. 5&8, T24N, R3E, Noble Co., OK
Project Number: Evans & Associates
Project Manager: Mr. Saeed Zahrai

Reported:
11/21/17 17:08

Qualifiers and Definitions

COM	Completed
H-03	Sample was received and analyzed past the method holding time.
M-02	The matrix spike recovery was higher than expected due to sample matrix interference.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.