

ENERCON

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK

Record
ENERCON Project #: GRDA-00021

FNERCON Sampling Personnel:

Other Personnel:

Well Number:

Purging Methods: Purge to stabilization (pH +/- 0.1, conductivity +/- 5%, and Turbidity <10 NTU). Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ Pro Series groundwater quality probe, and Hach™ water turbidity meter.

Latitude/ Longitude:

Depth to Free Product:

Depth to Water: 16.5

Water: 16-57

Total Depth of Well:

Screened Interval:
13.05 - 29.05

N Date Started: 10-4-22 Date Finished: 11-20

Duplicate Sample Name:

Well Casing Diameter:

Sample Collection Time: 30 Cumulative

Duplicate Sample Name:

Duplicate Collection Time:

Latitude Long N E		Date Started: 10-4-22 Date Finished: 1130		Pump/Tubing Inlet Depth: 60			Duplicate Collection Time:			Pump setting/adjustments/ remarks
Sample Collection Time:				Duplicate Sample Name:						
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	
1035	200	-	22.5	6.19	566	3.47	84.7	6.73	16.73	Slow
1040	150	1000	22.4	6.19	542	2.72	99.8	5.91	16.81	Slow
1045	100	1750	22.2	6.17	542	2.84	108.7	10.02	21.03	
1050	" "	2375	22.1	6.18	546	2.58	112.1	18.86	16.95	
1055		3000	22.1	6.15	557	2.64	116.3	17.15	16.91	
1100	↓	3625	22.1	6.15	568	2.56	119.0	9.76	16.99	
1105	↓	4250	21.9	6.14	579	2.37	121.6	13.63		
1110		4875	21.9	6.15	580	2.41	122.3	7.04		
1115		5500	21.8	6.14	582	2.22	122.8	6.67		
1120		6125	21.8	6.14	583	2.15	122.9	5.94	17.06	
1125		6750	21.8	6.14	582	2.25	122.9		17.01	

Volume = H x conversion factor
Volume Conversion factors

2" well - 0.163 gal.

4 well = 0.65 gal/ft

6 well = 1.47 gal/ft

6 well - 147 gau

Water Quality Instrument details

Agilent Multimeter SN:14E100366

Ex-Tachidometer SN: 202002618

Attachment A
Laboratory Analytical Reports

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK					ENERCON Project #: GRDA-00021					
Well Number: <i>MW 93-2</i>		Purging Methods: Purge to stabilization (pH +/- 0.1, conductivity +/- 5%, and Turbidity <10 NTU). Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ Pro Series groundwater quality probe, and Hach™ water turbidity meter.			ENERCON Sampling Personnel: <i>Caleb Cope</i>		Other Personnel:			
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>8.04</i>	Total Depth of Well: <i>25'</i>		Screened Interval: <i>15-25' (?)</i>			
Date Started: <i>10-4-22</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>20'</i>	Well Casing Diameter:					
Sample Collection Time: <i>1255</i>		Duplicate Sample Name:			Duplicate Collection Time:					
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
<i>1215</i>	<i>200</i>	<i>—</i>	<i>24.3</i>	<i>8.45</i>	<i>12,888</i>	<i>1.38</i>	<i>-1758</i>	<i>5.22</i>	<i>8.08</i>	
<i>1220</i>	<i>" "</i>	<i>1000</i>	<i>24.3</i>	<i>8.44</i>	<i>12,864</i>	<i>.27</i>	<i>-182.8</i>	<i>4.47</i>	<i>8.06</i>	
<i>1225</i>	<i>" "</i>	<i>2000</i>	<i>24.3</i>	<i>8.44</i>	<i>12,897</i>	<i>.16</i>	<i>-199.4</i>	<i>2.52</i>	<i>8.06</i>	
<i>1230</i>	<i>" "</i>	<i>3000</i>	<i>24.2</i>	<i>8.44</i>	<i>12,724</i>	<i>.16</i>	<i>-205.7</i>	<i>2.49</i>	<i>8.06</i>	
<i>1235</i>	<i>" "</i>	<i>4000</i>	<i>24.2</i>	<i>8.45</i>	<i>12,749</i>	<i>.15</i>	<i>-211.9</i>	<i>2.34</i>	<i>8.06</i>	
<i>1240</i>	<i>" "</i>	<i>5000</i>	<i>24.2</i>	<i>8.48</i>	<i>13,051</i>	<i>.13</i>	<i>-217.9</i>	<i>2.55</i>		
<i>1245</i>	<i>" "</i>	<i>6000</i>	<i>24.1</i>	<i>8.49</i>	<i>12,867</i>	<i>.14</i>	<i>-220.5</i>	<i>2.90</i>		
<i>1250</i>	<i>" "</i>	<i>7000</i>	<i>24.1</i>	<i>8.48</i>	<i>12,970</i>	<i>.14</i>	<i>-221.0</i>	<i>2.97</i>		
<i>8.04</i>										
<i>* Collected DUP. @ <u>1300</u> (mw93-2 DUP)</i>										

Volume = H x conversion factor

Volume Conversion factors

2" well - 0.163 gal/ft

4" well - 0.65 gal/ft

6" well - 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN:14E100366

Scientific™ Turbidimeter SN: 202002618



Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK

ENFRCON Project #: GRDA-00021

Volume = H x conversion factor

Volume Conversion factors

- 2" well - 0.163 gal/ft
- 4" well - 0.65 gal/ft
- 6" well - 1.47 gal/ft

Water Quality Instrument details
YSI™ Multimeter SN: 14E100368
Scientific™ Turbidimeter SN: 202002618



Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-00021

Volume = H x conversion factor

2" well - 0.163 gal/ft
4" well - 0.65 gal/ft
6" well - 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN:14E100366

Scientific™ Turbidimeter SN: 202002618



Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-00021

Well Number:

MW93-1

Purging Methods: Purge to stabilization (pH +/- 0.1, conductivity +/- 5%, and Turbidity <10 NTU). Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ Pro Series groundwater quality probe, and Hach™ water turbidity meter.

ENERCON Sampling Personnel:

Caleb Cope

Other Personnel:

Latitude/ Longitude:

N

E

Depth to Free Product:

Depth to Water:

10.42

Total Depth of Well:

15.72

Screened Interval:

10.72 - 15.72

Date Started: 10-4-22 Date Finished:

Pump/Tubing Inlet Depth:

13'

Well Casing Diameter:

12"

Sample Collection Time: 1615

Duplicate Sample Name:

Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1545	200	—	24.0	6.65	1325	.91	383.6	4.29	10.53	Slowed
1550	150	1000	24.1	6.69	1334	.37	323.1	1.99		
1555	" "	1750	23.9	6.68	1338	.24	258.3	1.45	10.53	
1600	" "	1500	24.0	6.67	1344	.22	272.3	1.12		
1605	↓	2250	23.9	6.65	1349	.23	339.2	1.07	10.53	
1610		3000	23.8	6.64	1358	.23	333.5	1.13	10.53	

10.43

Volume = H x conversion factor
Volume Conversion factors

2" well – 0.163 gal/ft

4" well – 0.65 gal/ft

6" well – 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN: 14E100368

Scientific™ Turbidimeter SN: 202002618



Attachment D



ANALYTICAL REPORT

April 21, 2022

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

Enercon - Oklahoma City, OK

Sample Delivery Group: L1481502
Samples Received: 04/12/2022
Project Number: GRDA-00016
Description: GREC, Chouteau, OK
Site: GRDA-GREC
Report To:
Rusty Lynch
1601 Northwest Expressway
Suite 1000
Oklahoma City, OK 73118

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW22-01 L1481502-01 WW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/07/22 13:50	04/12/22 09:30
Gravimetric Analysis by Method 2540 C-2011	WG1848421	1	04/14/22 10:08	04/14/22 14:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1846264	1	04/14/22 08:01	04/14/22 08:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:24	04/14/22 08:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 10:32	04/14/22 10:32	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	5	04/14/22 10:45	04/14/22 10:45	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:01	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 16:48	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1847626	1	04/13/22 10:51	04/13/22 22:51	LD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW22-02 L1481502-02 WW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/07/22 15:20	04/12/22 09:30
Gravimetric Analysis by Method 2540 C-2011	WG1848421	1	04/14/22 10:08	04/14/22 14:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1846264	1	04/14/22 08:01	04/14/22 08:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:27	04/14/22 08:27	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	10	04/14/22 10:59	04/14/22 10:59	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	100	04/14/22 11:12	04/14/22 11:12	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:03	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 16:51	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 11:46	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	5	04/16/22 11:28	04/18/22 12:56	SJM	Mt. Juliet, TN

MW22-03 L1481502-03 WW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/07/22 16:30	04/12/22 09:30
Gravimetric Analysis by Method 2540 C-2011	WG1848421	1	04/14/22 10:08	04/14/22 14:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1846264	1	04/14/22 08:01	04/14/22 08:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:30	04/14/22 08:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 11:26	04/14/22 11:26	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	10	04/14/22 11:40	04/14/22 11:40	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:04	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 16:54	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 11:49	SJM	Mt. Juliet, TN

MW22-04 L1481502-04 WW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/07/22 17:50	04/12/22 09:30
Gravimetric Analysis by Method 2540 C-2011	WG1848421	1	04/14/22 10:08	04/14/22 14:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1846264	1	04/14/22 08:01	04/14/22 08:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:33	04/14/22 08:33	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 11:53	04/14/22 11:53	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:12	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 16:56	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 11:52	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-05 L1481502-05 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1848421	1	04/14/22 10:08	04/14/22 14:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1846264	1	04/14/22 08:01	04/14/22 08:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:37	04/14/22 08:37	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 13:15	04/14/22 13:15	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	50	04/14/22 13:28	04/14/22 13:28	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:14	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 16:59	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 11:56	SJM	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW22-06 L1481502-06 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1848421	1	04/14/22 10:08	04/14/22 14:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1846264	1	04/14/22 08:01	04/14/22 08:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:41	04/14/22 08:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 13:42	04/14/22 13:42	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	5	04/14/22 13:56	04/14/22 13:56	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:16	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:08	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 11:59	SJM	Mt. Juliet, TN

MW22-07 L1481502-07 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:44	04/14/22 08:44	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 14:09	04/14/22 14:09	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1849897	5	04/17/22 22:43	04/17/22 22:43	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:18	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 16:08	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 12:02	SJM	Mt. Juliet, TN

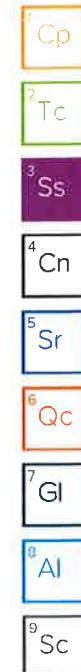
MW93-01 L1481502-08 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 08:56	04/14/22 08:56	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 14:23	04/14/22 14:23	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	10	04/14/22 14:36	04/14/22 14:36	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:20	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 10:46	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW93-02 L1481502-09 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848242	1	04/14/22 07:59	04/14/22 08:59	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	5	04/14/22 14:52	04/14/22 14:52	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	50	04/14/22 15:33	04/14/22 15:33	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:22	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 12:06	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	5	04/16/22 11:28	04/18/22 12:59	SJM	Mt. Juliet, TN



MW93-03 L1481502-10 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848243	1	04/14/22 07:19	04/14/22 07:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 15:47	04/14/22 15:47	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	5	04/14/22 16:00	04/14/22 16:00	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	50	04/14/22 16:28	04/14/22 16:28	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:24	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 12:09	SJM	Mt. Juliet, TN

MW22-08 L1481502-11 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848243	1	04/14/22 07:22	04/14/22 07:22	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 16:14	04/14/22 16:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	5	04/14/22 16:28	04/14/22 16:28	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	50	04/14/22 16:41	04/14/22 16:41	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:26	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:19	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 12:12	SJM	Mt. Juliet, TN

MW03-01 L1481502-12 WW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848243	1	04/14/22 07:30	04/14/22 07:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 16:41	04/14/22 16:41	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1847555	1	04/20/22 09:48	04/21/22 12:28	MRW	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:22	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 12:15	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW03-02 L1481502-13 WW

		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/08/22 10:25	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1847898	1	04/13/22 13:10	04/13/22 16:06	BRG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG1849724	1	04/17/22 08:32	04/17/22 08:32	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1848243	1	04/14/22 07:34	04/14/22 07:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	1	04/14/22 17:22	04/14/22 17:22	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1848386	10	04/14/22 17:36	04/14/22 17:36	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG1848286	1	04/14/22 11:25	04/15/22 09:19	ABL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1847541	1	04/13/22 20:39	04/14/22 17:25	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1848733	1	04/16/22 11:28	04/18/22 10:56	SJM	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager



MW22-01

SAMPLE RESULTS - 01

L1481502

Collected date/time: 04/07/22 13:50

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1230		20.0	1	04/14/2022 14:05	WG1848421

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1690		10.0	1	04/14/2022 08:01	WG1846264

Sample Narrative:

L1481502-01 WG1846264: at 25C

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Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	637		8.45	20.0	1	04/14/2022 08:24	WG1848242

Sample Narrative:

L1481502-01 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6.41		0.379	1.00	1	04/14/2022 10:32	WG1848386
Fluoride	0.112	J	0.0640	0.150	1	04/14/2022 10:32	WG1848386
Sulfate	353		2.97	25.0	5	04/14/2022 10:45	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:01	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.247		0.0396	0.200	1	04/14/2022 16:48	WG1847541
Lithium	0.0370	J	0.00689	0.0150	1	04/14/2022 16:48	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/13/2022 22:51	WG1847626
Arsenic	0.000639	J	0.000195	0.00100	1	04/13/2022 22:51	WG1847626
Barium	0.0621		0.000476	0.00500	1	04/13/2022 22:51	WG1847626
Beryllium	U		0.000201	0.00100	1	04/13/2022 22:51	WG1847626
Cadmium	0.000263	J	0.000160	0.00100	1	04/13/2022 22:51	WG1847626
Calcium	323		0.112	1.00	1	04/13/2022 22:51	WG1847626
Chromium	U		0.00560	0.0200	1	04/13/2022 22:51	WG1847626
Cobalt	0.00536		0.000142	0.00200	1	04/13/2022 22:51	WG1847626
Lead	U		0.000513	0.00200	1	04/13/2022 22:51	WG1847626
Molybdenum	0.000852	J	0.000841	0.00500	1	04/13/2022 22:51	WG1847626
Selenium	U		0.000437	0.00200	1	04/13/2022 22:51	WG1847626
Sodium	27.1		0.513	2.00	1	04/13/2022 22:51	WG1847626
Thallium	U		0.000176	0.00100	1	04/13/2022 22:51	WG1847626

MW22-02

Collected date/time: 04/07/22 15:20

SAMPLE RESULTS - 02

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4530		100	1	04/14/2022 14:05	WG1848421

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	6290		10.0	1	04/14/2022 08:01	WG1846264

Sample Narrative:

L1481502-02 WG1846264: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	277		8.45	20.0	1	04/14/2022 08:27	WG1848242

Sample Narrative:

L1481502-02 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	240		3.79	10.0	10	04/14/2022 10:59	WG1848386
Fluoride	U		0.640	1.50	10	04/14/2022 10:59	WG1848386
Sulfate	2460		59.4	500	100	04/14/2022 11:12	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:03	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	1.87		0.0396	0.200	1	04/14/2022 16:51	WG1847541
Lithium	0.0441		0.00689	0.0150	1	04/14/2022 16:51	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 11:46	WG1848733
Arsenic	0.000948	J	0.000195	0.00100	1	04/18/2022 11:46	WG1848733
Barium	0.0435		0.000476	0.00500	1	04/18/2022 11:46	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 11:46	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 11:46	WG1848733
Calcium	238		0.112	1.00	1	04/18/2022 11:46	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 11:46	WG1848733
Cobalt	0.000914	J	0.000142	0.00200	1	04/18/2022 11:46	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 11:46	WG1848733
Molybdenum	0.113		0.000841	0.00500	1	04/18/2022 11:46	WG1848733
Selenium	0.170		0.000437	0.00200	1	04/18/2022 11:46	WG1848733
Sodium	1070		2.56	10.0	5	04/18/2022 12:56	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 11:46	WG1848733

DATE/TIME:
04/21/22 17:40PAGE:
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MW22-03

Collected date/time: 04/07/22 16:30

SAMPLE RESULTS - 03

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1230		25.0	1	04/14/2022 14:05	WG1848421

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2400		10.0	1	04/14/2022 08:01	WG1846264

Sample Narrative:

L1481502-03 WG1846264: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	216		8.45	20.0	1	04/14/2022 08:30	WG1848242

Sample Narrative:

L1481502-03 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	539		3.79	10.0	10	04/14/2022 11:40	WG1848386
Fluoride	U		0.0640	0.150	1	04/14/2022 11:26	WG1848386
Sulfate	137		5.94	50.0	10	04/14/2022 11:40	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:04	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.109	U	0.0396	0.200	1	04/14/2022 16:54	WG1847541
Lithium	0.0597		0.00689	0.0150	1	04/14/2022 16:54	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 11:49	WG1848733
Arsenic	0.000730	U	0.000195	0.00100	1	04/18/2022 11:49	WG1848733
Barium	0.269		0.000476	0.00500	1	04/18/2022 11:49	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 11:49	WG1848733
Cadmium	0.000341	U	0.000160	0.00100	1	04/18/2022 11:49	WG1848733
Calcium	122		0.112	1.00	1	04/18/2022 11:49	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 11:49	WG1848733
Cobalt	0.00620		0.000142	0.00200	1	04/18/2022 11:49	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 11:49	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 11:49	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 11:49	WG1848733
Sodium	303		0.513	2.00	1	04/18/2022 11:49	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 11:49	WG1848733

ACCOUNT:

Enercon - Oklahoma City, OK

PROJECT:

GRDA-00016

SDG:

L1481502

DATE/TIME:

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MW22-04

Collected date/time: 04/07/22 17:50

SAMPLE RESULTS - 04

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	322		10.0	1	04/14/2022 14:05	WG1848421



Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	527		10.0	1	04/14/2022 08:01	WG1846264

Sample Narrative:

L1481502-04 WG1846264: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	96.2		8.45	20.0	1	04/14/2022 08:33	WG1848242

Sample Narrative:

L1481502-04 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	32.3		0.379	1.00	1	04/14/2022 11:53	WG1848386
Fluoride	0.114	J	0.0640	0.150	1	04/14/2022 11:53	WG1848386
Sulfate	86.2		0.594	5.00	1	04/14/2022 11:53	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/14/2022 12:12	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	04/14/2022 16:56	WG1847541
Lithium	0.0171		0.00689	0.0150	1	04/14/2022 16:56	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 11:52	WG1848733
Arsenic	0.000632	J	0.000195	0.00100	1	04/18/2022 11:52	WG1848733
Barium	0.108		0.000476	0.00500	1	04/18/2022 11:52	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 11:52	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 11:52	WG1848733
Calcium	59.4		0.112	1.00	1	04/18/2022 11:52	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 11:52	WG1848733
Cobalt	0.000256	J	0.000142	0.00200	1	04/18/2022 11:52	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 11:52	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 11:52	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 11:52	WG1848733
Sodium	27.9		0.513	2.00	1	04/18/2022 11:52	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 11:52	WG1848733

MW22-05

SAMPLE RESULTS - 05

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2640		50.0	1	04/14/2022 14:05	WG1848421



Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3840		10.0	1	04/14/2022 08:01	WG1846264

Sample Narrative:

L1481502-05 WG1846264: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	212		8.45	20.0	1	04/14/2022 08:37	WG1848242

Sample Narrative:

L1481502-05 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1060		19.0	50.0	50	04/14/2022 13:28	WG1848386
Fluoride	0.122	J	0.0640	0.150	1	04/14/2022 13:15	WG1848386
Sulfate	28.1		0.594	5.00	1	04/14/2022 13:15	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:14	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	04/14/2022 16:59	WG1847541
Lithium	0.0330		0.00689	0.0150	1	04/14/2022 16:59	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 11:56	WG1848733
Arsenic	0.00115		0.000195	0.00100	1	04/18/2022 11:56	WG1848733
Barium	0.484		0.000476	0.00500	1	04/18/2022 11:56	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 11:56	WG1848733
Cadmium	0.000395	J	0.000160	0.00100	1	04/18/2022 11:56	WG1848733
Calcium	269		0.112	1.00	1	04/18/2022 11:56	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 11:56	WG1848733
Cobalt	0.00755		0.000142	0.00200	1	04/18/2022 11:56	WG1848733
Lead	0.00120	J	0.000513	0.00200	1	04/18/2022 11:56	WG1848733
Molybdenum	0.000894	J	0.000841	0.00500	1	04/18/2022 11:56	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 11:56	WG1848733
Sodium	403		0.513	2.00	1	04/18/2022 11:56	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 11:56	WG1848733

SAMPLE RESULTS - 06

L1481502

MW22-06

Collected date/time: 04/08/22 08:25

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1030		20.0	1	04/14/2022 14:05	WG1848421

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1500		10.0	1	04/14/2022 08:01	WG1846264

Sample Narrative:

L1481502-06 WG1846264: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	276		8.45	20.0	1	04/14/2022 08:41	WG1848242

Sample Narrative:

L1481502-06 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	153		1.90	5.00	5	04/14/2022 13:56	WG1848386
Fluoride	0.0837	J	0.0640	0.150	1	04/14/2022 13:42	WG1848386
Sulfate	291		2.97	25.0	5	04/14/2022 13:56	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:16	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	04/14/2022 17:08	WG1847541
Lithium	0.0284		0.00689	0.0150	1	04/14/2022 17:08	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 11:59	WG1848733
Arsenic	0.000247	J	0.000195	0.00100	1	04/18/2022 11:59	WG1848733
Barium	0.121		0.000476	0.00500	1	04/18/2022 11:59	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 11:59	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 11:59	WG1848733
Calcium	245		0.112	1.00	1	04/18/2022 11:59	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 11:59	WG1848733
Cobalt	U		0.000142	0.00200	1	04/18/2022 11:59	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 11:59	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 11:59	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 11:59	WG1848733
Sodium	58.8		0.513	2.00	1	04/18/2022 11:59	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 11:59	WG1848733



MW22-07

Collected date/time: 04/08/22 13:15

SAMPLE RESULTS - 07

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	519		10.0	1	04/13/2022 16:06	WG1847898

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 GI
8 Al
9 Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	827		10.0	1	04/17/2022 08:32	WG1849724

Sample Narrative:

L1481502-07 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	297		8.45	20.0	1	04/14/2022 08:44	WG1848242

Sample Narrative:

L1481502-07 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5.98		0.379	1.00	1	04/14/2022 14:09	WG1848386
Fluoride	0.166		0.0640	0.150	1	04/14/2022 14:09	WG1848386
Sulfate	160		2.97	25.0	5	04/17/2022 22:43	WG1849897

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:18	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	04/14/2022 16:08	WG1847541
Lithium	0.0104	U	0.00689	0.0150	1	04/14/2022 16:08	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 12:02	WG1848733
Arsenic	0.000522	U	0.000195	0.00100	1	04/18/2022 12:02	WG1848733
Barium	0.0944		0.000476	0.00500	1	04/18/2022 12:02	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 12:02	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 12:02	WG1848733
Calcium	87.6		0.112	1.00	1	04/18/2022 12:02	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 12:02	WG1848733
Cobalt	0.000229	U	0.000142	0.00200	1	04/18/2022 12:02	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 12:02	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 12:02	WG1848733
Selenium	0.00188	U	0.000437	0.00200	1	04/18/2022 12:02	WG1848733
Sodium	81.6		0.513	2.00	1	04/18/2022 12:02	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 12:02	WG1848733

SAMPLE RESULTS - 08

L1481502

MW93-01

Collected date/time: 04/08/22 14:18

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1130		20.0	1	04/13/2022 16:06	WG1847898

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1560		10.0	1	04/17/2022 08:32	WG1849724

Sample Narrative:

L1481502-08 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	406		8.45	20.0	1	04/14/2022 08:56	WG1848242

Sample Narrative:

L1481502-08 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	14.3		0.379	1.00	1	04/14/2022 14:23	WG1848386
Fluoride	0.194		0.0640	0.150	1	04/14/2022 14:23	WG1848386
Sulfate	452		5.94	50.0	10	04/14/2022 14:36	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:20	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.321		0.0396	0.200	1	04/14/2022 17:10	WG1847541
Lithium	0.0236		0.00689	0.0150	1	04/14/2022 17:10	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 10:46	WG1848733
Arsenic	0.000291	J	0.000195	0.00100	1	04/18/2022 10:46	WG1848733
Barium	0.0199		0.000476	0.00500	1	04/18/2022 10:46	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 10:46	WG1848733
Cadmium	0.000376	J	0.000160	0.00100	1	04/18/2022 10:46	WG1848733
Calcium	227		0.112	1.00	1	04/18/2022 10:46	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 10:46	WG1848733
Cobalt	U		0.000142	0.00200	1	04/18/2022 10:46	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 10:46	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 10:46	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 10:46	WG1848733
Sodium	84.8		0.513	2.00	1	04/18/2022 10:46	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 10:46	WG1848733

MW93-02

SAMPLE RESULTS - 09

L1481502

Collected date/time: 04/08/22 12:23

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	10000		200	1	04/13/2022 16:06	<u>WG1847898</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	<u>Qualifier</u>	RDL umhos/cm	Dilution	Analysis date / time	<u>Batch</u>
Specific Conductance	13700		10.0	1	04/17/2022 08:32	<u>WG1849724</u>

Sample Narrative:

L1481502-09 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Alkalinity	144		8.45	20.0	1	04/14/2022 08:59	<u>WG1848242</u>

Sample Narrative:

L1481502-09 WG1848242: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	1460		19.0	50.0	50	04/14/2022 15:33	<u>WG1848386</u>
Fluoride	0.375	<u>J</u>	0.320	0.750	5	04/14/2022 14:52	<u>WG1848386</u>
Sulfate	4920		29.7	250	50	04/14/2022 15:33	<u>WG1848386</u>

Mercury by Method 245.1

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury	U		0.000100	0.000200	1	04/21/2022 12:22	<u>WG1847555</u>

Metals (ICP) by Method 200.7

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Boron	1.42		0.0396	0.200	1	04/14/2022 17:13	<u>WG1847541</u>
Lithium	0.0304		0.00689	0.0150	1	04/14/2022 17:13	<u>WG1847541</u>

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Antimony	U		0.00172	0.00500	1	04/18/2022 12:06	<u>WG1848733</u>
Arsenic	0.0213		0.000195	0.00100	1	04/18/2022 12:06	<u>WG1848733</u>
Barium	0.141		0.000476	0.00500	1	04/18/2022 12:06	<u>WG1848733</u>
Beryllium	U		0.000201	0.00100	1	04/18/2022 12:06	<u>WG1848733</u>
Cadmium	U		0.000160	0.00100	1	04/18/2022 12:06	<u>WG1848733</u>
Calcium	228		0.112	1.00	1	04/18/2022 12:06	<u>WG1848733</u>
Chromium	U		0.00560	0.0200	1	04/18/2022 12:06	<u>WG1848733</u>
Cobalt	U		0.000142	0.00200	1	04/18/2022 12:06	<u>WG1848733</u>
Lead	U		0.000513	0.00200	1	04/18/2022 12:06	<u>WG1848733</u>
Molybdenum	1.48		0.000841	0.00500	1	04/18/2022 12:06	<u>WG1848733</u>
Selenium	0.00112	<u>J</u>	0.000437	0.00200	1	04/18/2022 12:06	<u>WG1848733</u>
Sodium	2580		2.56	10.0	5	04/18/2022 12:59	<u>WG1848733</u>
Thallium	U		0.000176	0.00100	1	04/18/2022 12:06	<u>WG1848733</u>

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

MW93-03

SAMPLE RESULTS - 10

Collected date/time: 04/08/22 11:42

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1300		25.0	1	04/13/2022 16:06	WG1847898

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2160		10.0	1	04/17/2022 08:32	WG1849724

Sample Narrative:

L1481502-10 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	590		8.45	20.0	1	04/14/2022 07:19	WG1848243

Sample Narrative:

L1481502-10 WG1848243: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	231		1.90	5.00	5	04/14/2022 16:00	WG1848386
Fluoride	0.190		0.0640	0.150	1	04/14/2022 15:47	WG1848386
Sulfate	202		2.97	25.0	5	04/14/2022 16:00	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000945		0.000100	0.000200	1	04/21/2022 12:24	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.0765	J	0.0396	0.200	1	04/14/2022 17:16	WG1847541
Lithium	0.135		0.00689	0.0150	1	04/14/2022 17:16	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 12:09	WG1848733
Arsenic	0.000685	J	0.000195	0.00100	1	04/18/2022 12:09	WG1848733
Barium	0.0640		0.000476	0.00500	1	04/18/2022 12:09	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 12:09	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 12:09	WG1848733
Calcium	80.2		0.112	1.00	1	04/18/2022 12:09	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 12:09	WG1848733
Cobalt	U		0.000142	0.00200	1	04/18/2022 12:09	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 12:09	WG1848733
Molybdenum	0.000858	J	0.000841	0.00500	1	04/18/2022 12:09	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 12:09	WG1848733
Sodium	354		0.513	2.00	1	04/18/2022 12:09	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 12:09	WG1848733

MW22-08

Collected date/time: 04/08/22 11:05

SAMPLE RESULTS - 11

L1481502

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1140		20.0	1	04/13/2022 16:06	WG1847898

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1880		10.0	1	04/17/2022 08:32	WG1849724

Sample Narrative:

L1481502-11 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	437		8.45	20.0	1	04/14/2022 07:22	WG1848243

Sample Narrative:

L1481502-11 WG1848243: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	165		1.90	5.00	5	04/14/2022 16:28	WG1848386
Fluoride	0.227		0.0640	0.150	1	04/14/2022 16:14	WG1848386
Sulfate	273		2.97	25.0	5	04/14/2022 16:28	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:26	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.184	J	0.0396	0.200	1	04/14/2022 17:19	WG1847541
Lithium	0.0770		0.00689	0.0150	1	04/14/2022 17:19	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 12:12	WG1848733
Arsenic	0.000622	J	0.000195	0.00100	1	04/18/2022 12:12	WG1848733
Barium	0.104		0.000476	0.00500	1	04/18/2022 12:12	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 12:12	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 12:12	WG1848733
Calcium	73.3		0.112	1.00	1	04/18/2022 12:12	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 12:12	WG1848733
Cobalt	0.00183	J	0.000142	0.00200	1	04/18/2022 12:12	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 12:12	WG1848733
Molybdenum	0.00224	J	0.000841	0.00500	1	04/18/2022 12:12	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 12:12	WG1848733
Sodium	309		0.513	2.00	1	04/18/2022 12:12	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 12:12	WG1848733

MW03-01

SAMPLE RESULTS - 12

L1481502

Collected date/time: 04/08/22 09:30

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	81.0		10.0	1	04/13/2022 16:06	WG1847898

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 GI
8 AI
9 Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2440		10.0	1	04/17/2022 08:32	WG1849724

Sample Narrative:

L1481502-12 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	40.8		8.45	20.0	1	04/14/2022 07:30	WG1848243

Sample Narrative:

L1481502-12 WG1848243: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.942	U	0.379	1.00	1	04/14/2022 16:41	WG1848386
Fluoride	U		0.0640	0.150	1	04/14/2022 16:41	WG1848386
Sulfate	2.92	U	0.594	5.00	1	04/14/2022 16:41	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	04/21/2022 12:28	WG1847555

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	04/14/2022 17:22	WG1847541
Lithium	U		0.00689	0.0150	1	04/14/2022 17:22	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 12:15	WG1848733
Arsenic	0.000455	U	0.000195	0.00100	1	04/18/2022 12:15	WG1848733
Barium	0.0301		0.000476	0.00500	1	04/18/2022 12:15	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 12:15	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 12:15	WG1848733
Calcium	10.8		0.112	1.00	1	04/18/2022 12:15	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 12:15	WG1848733
Cobalt	U		0.000142	0.00200	1	04/18/2022 12:15	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 12:15	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 12:15	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 12:15	WG1848733
Sodium	9.32		0.513	2.00	1	04/18/2022 12:15	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 12:15	WG1848733

MW03-02

SAMPLE RESULTS - 13

L1481502

Collected date/time: 04/08/22 10:25

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1720		25.0	1	04/13/2022 16:06	WG1847898

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷GI⁸AI⁹Sc

Wet Chemistry by Method 120.1

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	115		10.0	1	04/17/2022 08:32	WG1849724

Sample Narrative:

L1481502-13 WG1849724: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	230		8.45	20.0	1	04/14/2022 07:34	WG1848243

Sample Narrative:

L1481502-13 WG1848243: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	440		3.79	10.0	10	04/14/2022 17:36	WG1848386
Fluoride	0.0746	J	0.0640	0.150	1	04/14/2022 17:22	WG1848386
Sulfate	371		5.94	50.0	10	04/14/2022 17:36	WG1848386

Mercury by Method 245.1

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00285		0.000100	0.000200	1	04/15/2022 09:19	WG1848286

Metals (ICP) by Method 200.7

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	04/14/2022 17:25	WG1847541
Lithium	0.0346		0.00689	0.0150	1	04/14/2022 17:25	WG1847541

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	04/18/2022 10:56	WG1848733
Arsenic	U		0.000195	0.00100	1	04/18/2022 10:56	WG1848733
Barium	0.0301		0.000476	0.00500	1	04/18/2022 10:56	WG1848733
Beryllium	U		0.000201	0.00100	1	04/18/2022 10:56	WG1848733
Cadmium	U		0.000160	0.00100	1	04/18/2022 10:56	WG1848733
Calcium	291		0.112	1.00	1	04/18/2022 10:56	WG1848733
Chromium	U		0.00560	0.0200	1	04/18/2022 10:56	WG1848733
Cobalt	U		0.000142	0.00200	1	04/18/2022 10:56	WG1848733
Lead	U		0.000513	0.00200	1	04/18/2022 10:56	WG1848733
Molybdenum	U		0.000841	0.00500	1	04/18/2022 10:56	WG1848733
Selenium	U		0.000437	0.00200	1	04/18/2022 10:56	WG1848733
Sodium	161		0.513	2.00	1	04/18/2022 10:56	WG1848733
Thallium	U		0.000176	0.00100	1	04/18/2022 10:56	WG1848733

ACCOUNT:

Enercon - Oklahoma City, OK

PROJECT:

GRDA-00016

SDG:

L1481502

DATE/TIME:

04/21/22 17:40

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WG1847898

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

L1481502-07,08,09,10,11,12,13

Method Blank (MB)

(MB) R3781729-1 04/13/22 16:06

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

L1481136-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1481136-02 04/13/22 16:06 • (DUP) R3781729-3 04/13/22 16:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Dissolved Solids	774	786	1	1.54		5

L1481136-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1481136-03 04/13/22 16:06 • (DUP) R3781729-4 04/13/22 16:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Dissolved Solids	820	826	1	0.729		5

Laboratory Control Sample (LCS)

(LCS) R3781729-2 04/13/22 16:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Dissolved Solids	8800	8580	97.5	77.4-123	

WG1848421

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

L1481502-01,02,03,04,05,06

Method Blank (MB)

(MB) R3782152-1 04/14/22 14:05

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

L1481889-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1481889-01 04/14/22 14:05 • (DUP) R3782152-3 04/14/22 14:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	775	789	1	1.87		5

Laboratory Control Sample (LCS)

(LCS) R3782152-2 04/14/22 14:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	mg/l	mg/l	%	%	
Dissolved Solids	8800	8540	97.0	77.4-123	

WG1846264

Wet Chemistry by Method 120.1

QUALITY CONTROL SUMMARY

[L1481502-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3780862-1 04/14/22 08:01

Analyte	MB Result umhos/cm	<u>MB Qualifier</u>	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

L1479373-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1479373-01 04/14/22 08:01 • (DUP) R3780862-3 04/14/22 08:01

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Specific Conductance	1560	1550	1	0.193		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1481502-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1481502-06 04/14/22 08:01 • (DUP) R3780862-4 04/14/22 08:01

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Specific Conductance	1500	1510	1	0.664		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3780862-2 04/14/22 08:01

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Specific Conductance	268	271	101	85.0-115	

Sample Narrative:

LCS: at 25C

WG1849724

Wet Chemistry by Method 120.1

QUALITY CONTROL SUMMARY

L1481502-07,08,09,10,11,12,13

Method Blank (MB)

(MB) R3781880-1 04/17/22 08:32

Analyte	MB Result umhos/cm	<u>MB Qualifier</u>	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1481502-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1481502-07 04/17/22 08:32 • (DUP) R3781880-3 04/17/22 08:32

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Specific Conductance	827	824	1	0.363		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1483088-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1483088-01 04/17/22 08:32 • (DUP) R3781880-4 04/17/22 08:32

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Specific Conductance	2420	2430	1	0.494		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3781880-2 04/17/22 08:32

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Specific Conductance	268	263	98.1	85.0-115	

Sample Narrative:

LCS: at 25C

QUALITY CONTROL SUMMARY

L1481502-01,02,03,04,05,06,07,08,09

WG1848242

Wet Chemistry by Method 2320 B-2011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

Method Blank (MB)

(MB) R3781286-2 04/14/22 07:19		MB Result	MB Qualifier	MB MDL	MB RDL
Analyte		mg/l		mg/l	mg/l
Alkalinity	U			8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1481485-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1481485-01 04/14/22 07:32 • (DUP) R3781286-3 04/14/22 07:36		Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte		mg/l	mg/l		%		%
Alkalinity		64.8	65.6	1	1.21		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1481904-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1481904-01 04/14/22 09:02 • (DUP) R3781286-4 04/14/22 09:06		Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte		mg/l	mg/l		%		%
Alkalinity		218	216	1	0.839		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3781286-1 04/14/22 07:15		Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte		mg/l	mg/l	%	%	
Alkalinity		100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

ACCOUNT:

City: OK

PROJECT:
GRDA-00016

SDG:
L1481502

DATE/TIME:
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WG1848243

Wet Chemistry by Method 2320 B-2011

QUALITY CONTROL SUMMARY

L1481502-10,11,12,13

Method Blank (MB)

(MB) R3781289-2 04/14/22 07:17

Analyst	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

L1481502-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1481502-11 04/14/22 07:22 • (DUP) R3781289-3 04/14/22 07:26

Analyst	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Alkalinity	437	441	1	0.830		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1481562-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1481562-01 04/14/22 08:12 • (DUP) R3781289-4 04/14/22 08:17

Analyst	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Alkalinity	339	340	1	0.196		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3781289-1 04/14/22 07:11

Analyst	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Alkalinity	100	104	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

WG1848386

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1481502-01,02,03,04,05,06,07,08,09,10,11,12,13

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ GI
- ⁸ AI
- ⁹ Sc

Method Blank (MB)

(MB) R3781815-1 04/14/22 09:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1481502-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1481502-04 04/14/22 11:53 • (DUP) R3781815-3 04/14/22 12:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	32.3	32.2	1	0.255		20
Fluoride	0.114	0.119	1	4.89	J	20
Sulfate	86.2	85.9	1	0.422		20

L1481502-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1481502-12 04/14/22 16:41 • (DUP) R3781815-6 04/14/22 16:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.942	0.863	1	8.72	J	20
Fluoride	U	U	1	0.000		20
Sulfate	2.92	2.83	1	3.02	J	20

Laboratory Control Sample (LCS)

(LCS) R3781815-2 04/14/22 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	36.5	91.3	90.0-110	
Fluoride	8.00	7.33	91.6	90.0-110	
Sulfate	40.0	36.7	91.7	90.0-110	

WG1848386

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1481502-01,02,03,04,05,06,07,08,09,10,11,12,13

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

L1481502-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481502-04 04/14/22 11:53 • (MS) R3781815-4 04/14/22 12:48 • (MSD) R3781815-5 04/14/22 13:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
	mg/l	mg/l	mg/l	mg/l	%	%		%				
Chloride	50.0	32.3	76.9	78.6	89.3	92.7	1	80.0-120			2.16	20
Fluoride	5.00	0.114	4.52	4.65	88.0	90.7	1	80.0-120			2.88	20
Sulfate	50.0	86.2	128	131	83.1	89.7	1	80.0-120	E	E	2.55	20

L1481502-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1481502-12 04/14/22 16:41 • (MS) R3781815-7 04/14/22 17:08

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	0.942	51.1	100	1	80.0-120	
Fluoride	5.00	U	4.96	99.1	1	80.0-120	
Sulfate	50.0	2.92	53.3	101	1	80.0-120	

WG1849897

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

L1481502-07

Method Blank (MB)

(MB) R3782764-1 04/17/22 21:18

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.594	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

L1481502-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1481502-07 04/17/22 22:43 • (DUP) R3782764-3 04/17/22 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Sulfate	160	160	5	0.0834		20

L1483298-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1483298-01 04/18/22 06:24 • (DUP) R3782764-6 04/18/22 06:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Sulfate	3.33	3.31	1	0.476	U	20

7 GI

Laboratory Control Sample (LCS)

(LCS) R3782764-2 04/17/22 21:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Sulfate	40.0	40.4	101	90.0-110	

L1482654-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1482654-08 04/17/22 23:58 • (MS) R3782764-4 04/18/22 00:10 • (MSD) R3782764-5 04/18/22 00:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Sulfate	50.0	97.5	144	144	93.1	93.4	1	80.0-120	E	E	0.119	20

2 Tc

L1483298-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1483298-01 04/18/22 06:24 • (MS) R3782764-7 04/18/22 06:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Sulfate	50.0	3.33	52.9	99.1	1	80.0-120	

3 Ss

4 Cn

5 Sr

6 Qc

QUALITY CONTROL SUMMARY

L1481502-01,02,03,04,05,06,07,08,09,10,11,12

WG1847555

Mercury by Method 245.1

Method Blank (MB)

(MB) R3783658-1 04/21/22 11:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000100	0.000200

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

Laboratory Control Sample (LCS)

(LCS) R3783658-2 04/21/22 11:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Mercury	0.00300	0.00306	102	85.0-115	

L1481369-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481369-02 04/21/22 11:39 • (MS) R3783658-3 04/21/22 11:41 • (MSD) R3783658-4 04/21/22 11:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%					%	%
Mercury	0.00300	U	0.00312	0.00304	104	101	1	70.0-130			2.54	20

L1481769-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481769-01 04/21/22 11:49 • (MS) R3783658-5 04/21/22 11:51 • (MSD) R3783658-6 04/21/22 11:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%					%	%
Mercury	0.00300	U	0.00301	0.00307	100	102	1	70.0-130			1.87	20

WG184286

Mercury by Method 245.1

QUALITY CONTROL SUMMARY

L1481502-13

Method Blank (MB)

(MB) R3781499-1 04/15/22 09:09

Analyst	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3781499-2 04/15/22 09:17

Analyst	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Mercury	0.00300	0.00305	102	85.0-115	

L1481502-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481502-13 04/15/22 09:19 • (MS) R3781499-3 04/15/22 09:21 • (MSD) R3781499-4 04/15/22 09:23

Analyst	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Rec. %	Dilution 1	Rec. Limits 70.0-130	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.00300	0.00285	0.00610	0.00601	108	105				1.41	20

WG1847541

Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

L1481502-01,02,03,04,05,06,07,08,09,10,11,12,13

Method Blank (MB)

(MB) R3781255-1 04/14/22 16:02

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0396	0.200
Lithium	U		0.00689	0.0150

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

Laboratory Control Sample (LCS)

(LCS) R3781255-2 04/14/22 16:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Boron	1.00	0.964	96.4	85.0-115	
Lithium	1.00	0.970	97.0	85.0-115	

L1481502-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481502-07 04/14/22 16:08 • (MS) R3781255-4 04/14/22 16:13 • (MSD) R3781255-5 04/14/22 16:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Boron	1.00	U	0.984	0.986	98.4	98.6	1	70.0-130			0.243	20
Lithium	1.00	0.0104	0.985	0.981	97.5	97.0	1	70.0-130			0.499	20

L1480100-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1480100-01 04/14/22 16:18 • (MS) R3781255-6 04/14/22 16:20 • (MSD) R3781255-7 04/14/22 16:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Boron	1.00	0.0725	1.06	1.06	98.7	98.7	1	70.0-130			0.00708	20
Lithium	1.00	0.0177	0.987	0.981	96.9	96.3	1	70.0-130			0.644	20

QUALITY CONTROL SUMMARY

L1481502-01

WG1847626
Metals (ICPMS) by Method 200.8

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Method Blank (MB)

(MB) R3780774-1 04/13/22 21:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	U		0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

Laboratory Control Sample (LCS)

(LCS) R3780774-2 04/13/22 21:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0515	103	85.0-115	
Arsenic	0.0500	0.0472	94.4	85.0-115	
Barium	0.0500	0.0489	97.8	85.0-115	
Beryllium	0.0500	0.0478	95.7	85.0-115	
Cadmium	0.0500	0.0511	102	85.0-115	
Calcium	5.00	4.77	95.4	85.0-115	
Chromium	0.0500	0.0490	98.0	85.0-115	
Cobalt	0.0500	0.0486	97.2	85.0-115	
Lead	0.0500	0.0473	94.6	85.0-115	
Molybdenum	0.0500	0.0481	96.2	85.0-115	
Selenium	0.0500	0.0501	100	85.0-115	
Sodium	5.00	4.83	96.7	85.0-115	
Thallium	0.0500	0.0478	95.5	85.0-115	

QUALITY CONTROL SUMMARY

L1481502-01

WG1847626
Metals (ICPMS) by Method 200.8

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

L1479417-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	(OS) L1479417-01 04/13/22 21:28 • (MS) R3780774-4 04/13/22 21:35 • (MSD) R3780774-5 04/13/22 21:38		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS %	MS %		%			%	%
Antimony	0.0500	0.161	0.220	0.215	118	108	1	70.0-130		2.19	20
Arsenic	0.0500	0.000314	0.0480	0.0470	95.4	93.3	1	70.0-130		2.26	20
Barium	0.0500	0.0371	0.0887	0.0883	103	102	1	70.0-130		0.465	20
Beryllium	0.0500	U	0.0496	0.0470	99.1	94.1	1	70.0-130		5.23	20
Cadmium	0.0500	U	0.0508	0.0495	102	99.0	1	70.0-130		2.71	20
Calcium	5.00	39.4	44.5	43.6	103	83.0	1	70.0-130		2.25	20
Chromium	0.0500	U	0.0480	0.0473	95.9	94.6	1	70.0-130		1.36	20
Cobalt	0.0500	0.000253	0.0479	0.0472	95.2	93.9	1	70.0-130		1.35	20
Lead	0.0500	0.00109	0.0510	0.0471	99.7	92.0	1	70.0-130		7.84	20
Molybdenum	0.0500	U	0.0507	0.0498	101	99.6	1	70.0-130		1.84	20
Selenium	0.0500	0.00215	0.0523	0.0513	100	98.2	1	70.0-130		2.09	20
Sodium	5.00	194	200	199	117	90.8	1	70.0-130		0.657	20
Thallium	0.0500	U	0.0484	0.0457	96.7	91.5	1	70.0-130		5.58	20

L1480541-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	(OS) L1480541-02 04/13/22 21:41 • (MS) R3780774-6 04/13/22 21:45 • (MSD) R3780774-7 04/13/22 21:48		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS %	MS %		%			%	%
Antimony	0.0500	U	0.0537	0.0532	107	106	1	70.0-130		0.977	20
Arsenic	0.0500	0.0165	0.0630	0.0631	92.9	93.3	1	70.0-130		0.262	20
Barium	0.0500	0.000773	0.0531	0.0515	105	101	1	70.0-130		3.05	20
Beryllium	0.0500	U	0.0507	0.0509	101	102	1	70.0-130		0.369	20
Cadmium	0.0500	U	0.0496	0.0497	99.2	99.3	1	70.0-130		0.164	20
Calcium	5.00	0.542	5.24	5.32	93.9	95.5	1	70.0-130		1.49	20
Chromium	0.0500	U	0.0475	0.0479	95.1	95.8	1	70.0-130		0.740	20
Cobalt	0.0500	U	0.0463	0.0469	92.6	93.7	1	70.0-130		1.19	20
Lead	0.0500	0.000614	0.0485	0.0495	95.8	97.8	1	70.0-130		2.09	20
Molybdenum	0.0500	0.00737	0.0567	0.0555	98.8	96.2	1	70.0-130		2.31	20
Selenium	0.0500	U	0.0495	0.0487	98.9	97.3	1	70.0-130		1.60	20
Sodium	5.00	133	139	137	125	94.7	1	70.0-130		1.10	20
Thallium	0.0500	U	0.0484	0.0483	96.8	96.7	1	70.0-130		0.173	20

QUALITY CONTROL SUMMARY

L1481502-02,03,04,05,06,07,08,09,10,11,12,13

WG1848733
Metals (ICPMS) by Method 200.8

- Cp
- Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

Method Blank (MB)

(MB) R3782139-1 04/18/22 10:26

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL	MB RDL
			mg/l	mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	U		0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

Laboratory Control Sample (LCS)

(LCS) R3782139-2 04/18/22 10:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits	<u>LCS Qualifier</u>
				%	
Antimony	0.0500	0.0533	107	85.0-115	
Arsenic	0.0500	0.0503	101	85.0-115	
Barium	0.0500	0.0498	99.6	85.0-115	
Beryllium	0.0500	0.0497	99.3	85.0-115	
Cadmium	0.0500	0.0516	103	85.0-115	
Calcium	5.00	4.98	99.6	85.0-115	
Chromium	0.0500	0.0511	102	85.0-115	
Cobalt	0.0500	0.0525	105	85.0-115	
Lead	0.0500	0.0501	100	85.0-115	
Molybdenum	0.0500	0.0501	100	85.0-115	
Selenium	0.0500	0.0502	100	85.0-115	
Sodium	5.00	4.97	99.4	85.0-115	
Thallium	0.0500	0.0480	96.1	85.0-115	

WG1848733

Metals (ICPMS) by Method 200.8

QUALITY CONTROL SUMMARY

L1481502-02,03,04,05,06,07,08,09,10,11,12,13

L1481240-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481240-01 04/18/22 10:33 • (MS) R3782139-4 04/18/22 10:40 • (MSD) R3782139-5 04/18/22 10:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits
Antimony	0.0500	U	0.0546	0.0557	109	111	1	70.0-130			1.83	20
Arsenic	0.0500	0.000867	0.0501	0.0495	98.4	97.2	1	70.0-130			118	20
Barium	0.0500	0.271	0.318	0.322	94.2	102	1	70.0-130			1.20	20
Beryllium	0.0500	U	0.0508	0.0510	102	102	1	70.0-130			0.365	20
Cadmium	0.0500	U	0.0519	0.0517	104	103	1	70.0-130			0.444	20
Calcium	5.00	120	121	122	32.8	48.2	1	70.0-130	V	V	0.636	20
Chromium	0.0500	U	0.0503	0.0503	101	101	1	70.0-130			0.00155	20
Cobalt	0.0500	0.000150	0.0491	0.0478	97.9	95.2	1	70.0-130			2.76	20
Lead	0.0500	U	0.0499	0.0496	99.8	99.1	1	70.0-130			0.719	20
Molybdenum	0.0500	0.000969	0.0512	0.0519	101	102	1	70.0-130			1.23	20
Selenium	0.0500	U	0.0345	0.0340	68.9	68.0	1	70.0-130	J6	J6	1.39	20
Sodium	5.00	204	201	203	0.000	0.000	1	70.0-130	V	V	1.18	20
Thallium	0.0500	U	0.0471	0.0463	94.3	92.6	1	70.0-130			1.81	20

L1481502-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481502-08 04/18/22 10:46 • (MS) R3782139-6 04/18/22 10:49 • (MSD) R3782139-7 04/18/22 10:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits
Antimony	0.0500	U	0.0560	0.0548	112	110	1	70.0-130			2.20	20
Arsenic	0.0500	0.000291	0.0495	0.0490	98.4	97.3	1	70.0-130			1.09	20
Barium	0.0500	0.0199	0.0736	0.0733	108	107	1	70.0-130			0.445	20
Beryllium	0.0500	U	0.0481	0.0486	96.3	97.2	1	70.0-130			0.968	20
Cadmium	0.0500	0.000376	0.0512	0.0524	102	104	1	70.0-130			2.35	20
Calcium	5.00	227	241	249	272	437	1	70.0-130	V	V	3.37	20
Chromium	0.0500	U	0.0493	0.0480	98.5	96.0	1	70.0-130			2.64	20
Cobalt	0.0500	U	0.0492	0.0484	98.3	96.8	1	70.0-130			1.56	20
Lead	0.0500	U	0.0501	0.0497	100	99.5	1	70.0-130			0.818	20
Molybdenum	0.0500	U	0.0524	0.0522	105	104	1	70.0-130			0.311	20
Selenium	0.0500	U	0.0514	0.0523	103	105	1	70.0-130			1.74	20
Sodium	5.00	84.8	92.6	95.8	156	219	1	70.0-130	V	V	3.36	20
Thallium	0.0500	U	0.0487	0.0491	97.5	98.2	1	70.0-130			0.692	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey—NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina ¹	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio—VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Enercon - Oklahoma City, OK 1601 Northwest Expressway Suite 1000 Oklahoma City, OK 73118		Billing Information: Accounts Payable - Lisa Hedrick 1601 NW Expressway Ste.1000 Oklahoma City, OK 73118			Pres Chk	Analysis / Container / Preservative			Chain of Custody <i>Pace</i> PEOPLE ADVANCING SCIENCE				
Report to: Rusty Lynch		Email To: rlynch@enercon.com;ccurrent@enercon.com							Page 1 of 1				
Project Description: GREC, Chouteau, OK		City/State Collected: Chouteau, OK	Please Circle: PT MT CT ET										
Phone: 405-722-7693	Client Project # GRDA-00016	Lab Project # ENERCOOK-GRDA							SDG # L4S150Z B239				
Collected by (print): Sch Scherm	Site/Facility ID # GRDA-GREC	P.O. # GRDA-00016							Acctnum: ENERCOOK Template: T206542 Prelogin: P915590 PM: 104 Jason Romer PB: 313102 MS Shipped Via: FedEX Ground				
Collected by (signature): Sch Scherm	Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____	Quote # Standard TAT		Date Results Needed Standard TAT	No. of Cntrs				Remarks Sample # (lab only)				
Immediately Packed on Ice N Y X	Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, RA-228 1L-HDPE-Add HNO3	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3		
MW 22-01	G	DW	—	4/17/22	1350	5	X	X	X	X	X	-01	
MW 22-02	I	DW	—		1520	5	X	X	X	X	X	-02	
MW 22-03		DW	—		1630	5	X	X	X	X	X	-03	
MW 22-04		DW	—		1750	5	X	X	X	X	X	-04	
MW 22-05		DW	—	✓	1855	5	X	X	X	X	X	-05	
MW 22-06		DW	—	4/18/22	0825	5	X	X	X	X	X	-06	
MW 22-07		DW	—	—	1315	5	X	X	X	X	X	-07	
MW 22-08		DW	—	—	1418	5	X	X	X	X	X	-08	
MW 22-09		DW	—	—	1223	5	X	X	X	X	X	-09	
MW 22-10	V	DW	—	—	1112	5	X	X	X	X	X	-10	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks:				pH _____	Temp _____							
Samples returned via: UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier _____			Tracking # 5719 6176 0340 / 0339			Flow _____	Other _____				Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> N <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> N <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> N <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> N <input type="checkbox"/> N If Applicable VCA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> N <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Relinquished by : (Signature) Sch Scherm	Date: 4/11/22	Time: 1800	Received by: (Signature)			Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> H2O / MeOH TBR			If preservation required by Login: Date/Time				
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)			Temp: 70.46°C 1810±1.8			Bottles Received: 65				
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Markus Mora			Date: 4/12/22	Time: 930	Hold:	Condition: NCF <input checked="" type="checkbox"/> OK				

Company Name/Address: Enercon - Oklahoma City, OK 1601 Northwest Expressway Suite 1000 Oklahoma City, OK 73118		Billing Information: Accounts Payable - Lisa Hedrick 1601 NW Expressway Ste.1000 Oklahoma City, OK 73118		Pres Chk	Analysis / Container / Preservative						Chain of Custody	Page <u>2</u> of <u>2</u>			
Report to: Rusty Lynch		Email To: rlynch@enercon.com;ccurrent@enercon.com									Pace PEOPLE ADVANCING SCIENCE				
Project Description: GREC, Chouteau, OK		City/State Collected: <i>Chouteau, OK</i>		Please Circle: PT MT CT ET								MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/Pas-Standard-Terms.pdf			
Phone: 405-722-7693	Client Project # <i>GRDA-00016</i>		Lab Project # ENERCOOK-GRDA								SDG # <i>4481502</i>				
Collected by (print): <i>Seth Scherm</i>	Site/Facility ID #: <i>GRDA-GREC</i>		P.O. #: <i>GRDA-00016</i>								Table #				
Collected by (signature): <i>Seth Scherm</i>	Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____		Quote # <i>Standard TAT</i>		Date Results Needed	No. of Cntrs							Acctnum: ENERCOOK Template: T206542 Prelogin: P915590 PM: 104 - Jason Romer PB: <i>331022 May</i>		
Immediately Packed on Ice N <u> </u> Y <u>X</u>													Shipped Via: PedEX Ground		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time								Remarks	Sample # (lab only)	
MW22-08	G	DW	—	4/18/22	1105	5	X	X	X	X	X			-11	
MW03-01	G	DW	—	1	0930	5	X	X	X	X	X			-12	
MW03-02	V	DW	—	1	1025	5	X	X	X	X	X			-13	
		DW				5	X	X	X	X	X				
		DW				5	X	X	X	X	X				
<i>SS</i>															
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____	Remarks:						pH _____	Temp _____	Sample Receipt Checklist						
							Flow _____	Other _____	COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N	CCC Signed/Accurate: <input checked="" type="checkbox"/> <input type="checkbox"/> N	Bottles arrive intact: <input checked="" type="checkbox"/> <input type="checkbox"/> N	Correct bottles used: <input checked="" type="checkbox"/> <input type="checkbox"/> N	Sufficient volume sent: <input checked="" type="checkbox"/> <input type="checkbox"/> Y	If Applicable: <input type="checkbox"/> <input type="checkbox"/> N	
	Samples returned via: UPS <input checked="" type="checkbox"/> FedEx Courier _____						Tracking # _____		VOA Zero Headspace: <input checked="" type="checkbox"/> <input type="checkbox"/> N	Preservation Correct/Checked: <input checked="" type="checkbox"/> <input type="checkbox"/> N	RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> <input type="checkbox"/> N				
Relinquished by : (Signature) <i>Seth Scherm</i>	Date: <i>4/11/22</i>	Time: <i>1600</i>	Received by: (Signature)			Trip Blank Received: <input checked="" type="checkbox"/> Yes / No <input type="checkbox"/> HD / MeOH <input type="checkbox"/> TBR			If preservation required by Login: Date/Time						
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)			Temp: <i>DR16 °C</i> Bottles Received: <i>1.810 = 1.8</i> 65									
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) <i>John Ross</i>			Date: <i>4/12/22</i>	Time: <i>930</i>	Hold:			Condition: <input checked="" type="checkbox"/> NCF / <input type="checkbox"/> OK				



ANALYTICAL REPORT

May 17, 2022

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸AI
- ⁹Sc

Enercon - Oklahoma City, OK

Sample Delivery Group: L1481504
Samples Received: 04/12/2022
Project Number: GRDA-00016
Description: GREC, Chouteau, OK
Site: GRDA-GREC
Report To:
Rusty Lynch
1601 Northwest Expressway
Suite 1000
Oklahoma City, OK 73118

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/07/22 13:50	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 19:40	SNR	Mt. Juliet, TN
MW22-01 L1481504-01 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/07/22 15:20	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 19:40	SNR	Mt. Juliet, TN
MW22-02 L1481504-02 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/07/22 16:30	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 19:40	SNR	Mt. Juliet, TN
MW22-03 L1481504-03 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/07/22 17:50	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 19:40	SNR	Mt. Juliet, TN
MW22-04 L1481504-04 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/07/22 18:55	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 20:10	SNR	Mt. Juliet, TN
MW22-05 L1481504-05 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/07/22 08:25	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 20:10	SNR	Mt. Juliet, TN
MW22-06 L1481504-06 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/08/22 08:25	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/03/22 13:30	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 20:10	SNR	Mt. Juliet, TN
MW22-07 L1481504-07 DW		Collected by	Collected date/time	Received date/time		
		Seth Scherm	04/08/22 13:15	04/12/22 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG1857309	1	05/02/22 16:42	05/06/22 15:02	SWM	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17	04/28/22 20:10	SNR	Mt. Juliet, TN



SAMPLE SUMMARY

MW93-01 L1481504-08 DW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/08/22 14:18	04/12/22 09:30
Radiochemistry by Method 904	WG1857309	1	05/02/22 16:42		05/06/22 15:02	SWM
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17		04/28/22 20:10	SNR

¹Cp
²Tc
³Ss
⁴Cn
⁵Sr
⁶Qc
⁷Gl
⁸Al
⁹Sc

MW93-02 L1481504-09 DW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/08/22 12:23	04/12/22 09:30
Radiochemistry by Method 904	WG1857309	1	05/02/22 16:42		05/09/22 11:24	SWM
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17		04/28/22 20:41	SNR

MW93-03 L1481504-10 DW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/08/22 11:42	04/12/22 09:30
Radiochemistry by Method 904	WG1857309	1	05/02/22 16:42		05/09/22 11:24	SWM
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17		04/28/22 20:41	SNR

MW22-08 L1481504-11 DW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/08/22 11:05	04/12/22 09:30
Radiochemistry by Method 904	WG1857309	1	05/02/22 16:42		05/09/22 11:24	SWM
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17		04/28/22 20:41	SNR

MW03-01 L1481504-12 DW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/08/22 09:30	04/12/22 09:30
Radiochemistry by Method 904	WG1858571	1	05/04/22 17:49		05/09/22 11:24	SWM
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17		04/28/22 20:41	SNR

MW03-02 L1481504-13 DW

Method	Batch	Dilution	Preparation date/time	Collected by	Collected date/time	Received date/time
				Seth Scherm	04/08/22 10:25	04/12/22 09:30
Radiochemistry by Method 904	WG1858571	1	05/04/22 17:49		05/09/22 11:24	SWM
Radiochemistry by Method SM 7500 Ra B	WG1850448	1	04/25/22 11:17		04/28/22 21:11	SNR

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager



MW22-01

Collected date/time: 04/07/22 13:50

SAMPLE RESULTS - 01

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	¹ Cp
RADIUM-228	0.515	<u>U</u>	0.340	0.601	05/06/2022 15:02	WG1857309	² Tc
(<i>T</i>) Barium	87.7			62.0-143	05/06/2022 15:02	WG1857309	³ Ss
(<i>T</i>) Yttrium	102			79.0-136	05/06/2022 15:02	WG1857309	⁴ Cn

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	⁵ Sr
RADIUM-226	0.135		0.279	0.360	04/28/2022 19:40	WG1850448	⁶ Qc
(<i>T</i>) Barium	114			63.0-143	04/28/2022 19:40	WG1850448	⁷ Gl

MW22-02

Collected date/time: 04/07/22 15:20

SAMPLE RESULTS - 02

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	<u>Batch</u>	Cp
RADIUM-228	0.822		0.283	0.486	05/06/2022 15:02	WG1857309	² Tc
(<i>T</i>) Barium	105			62.0-143	05/06/2022 15:02	WG1857309	³ Ss
(<i>T</i>) Yttrium	104			79.0-136	05/06/2022 15:02	WG1857309	

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	<u>Batch</u>	Cn
RADIUM-226	0.316		0.451	0.490	04/28/2022 19:40	WG1850448	⁵ Sr
(<i>T</i>) Barium	132			63.0-143	04/28/2022 19:40	WG1850448	⁶ Qc

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

MW22-03

SAMPLE RESULTS - 03

Collected date/time: 04/07/22 16:30

L1481504

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
	pCi/l		+ / -	pCi/l	date / time		Cp
RADIUM-228	0.451	<u>U</u>	0.358	0.633	05/06/2022 15:02	<u>WG1857309</u>	² Tc
(<i>T</i>) Barium	87.2			62.0-143	05/06/2022 15:02	<u>WG1857309</u>	
(<i>T</i>) Yttrium	107			79.0-136	05/06/2022 15:02	<u>WG1857309</u>	³ Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
	pCi/l		+ / -	pCi/l	date / time		Cn
RADIUM-226	0.315		0.374	0.350	04/28/2022 19:40	<u>WG1850448</u>	⁵ Sr
(<i>T</i>) Barium	119			63.0-143	04/28/2022 19:40	<u>WG1850448</u>	⁶ Qc

MW22-04

Collected date/time: 04/07/22 17:50

SAMPLE RESULTS - 04

L1481504

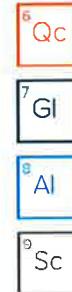
Radiochemistry by Method 904

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.579	<u>U</u>	0.344	0.607	05/06/2022 15:02	WG1857309
(<i>T</i>) Barium	99.3			62.0-143	05/06/2022 15:02	WG1857309
(<i>T</i>) Yttrium	99.9			79.0-136	05/06/2022 15:02	WG1857309



Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.223		0.410	0.486	04/28/2022 19:40	WG1850448
(<i>T</i>) Barium	132			63.0-143	04/28/2022 19:40	WG1850448



MW22-05

Collected date/time: 04/07/22 18:55

SAMPLE RESULTS - 05

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	<u>Batch</u>	Cp
RADIUM-228	0.390	<u>U</u>	0.297	0.525	05/06/2022 15:02	<u>WG1857309</u>	² Tc
(<i>T</i>) Barium	100			62.0-143	05/06/2022 15:02	<u>WG1857309</u>	³ Ss
(<i>T</i>) Yttrium	105			79.0-136	05/06/2022 15:02	<u>WG1857309</u>	

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	<u>Qualifier</u>	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	<u>Batch</u>	⁴ Cn
RADIUM-226	0.674		0.513	0.386	04/28/2022 20:10	<u>WG1850448</u>	⁵ Sr
(<i>T</i>) Barium	103			63.0-143	04/28/2022 20:10	<u>WG1850448</u>	⁶ Qc

MW22-06

Collected date/time: 04/08/22 08:25

SAMPLE RESULTS - 06

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	¹ Cp
RADIUM-228	1.72		0.314	0.508	05/06/2022 15:02	WG1857309	² Tc
(<i>T</i>) Barium	91.5			62.0-143	05/06/2022 15:02	WG1857309	³ Ss
(<i>T</i>) Yttrium	99.4			79.0-136	05/06/2022 15:02	WG1857309	⁴ Cn

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	⁵ Sr
RADIUM-226	0.225		0.413	0.516	04/28/2022 20:10	WG1850448	⁶ Qc
(<i>T</i>) Barium	123			63.0-143	04/28/2022 20:10	WG1850448	⁷ Gl

MW22-07

Collected date/time: 04/08/22 13:15

SAMPLE RESULTS - 07

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	Cp
RADIUM-228	1.33		0.263	0.427	05/06/2022 15:02	WG1857309	² Tc
(<i>T</i>) Barium	96.3			62.0-143	05/06/2022 15:02	WG1857309	³ Ss
(<i>T</i>) Yttrium	107			79.0-136	05/06/2022 15:02	WG1857309	⁴ Cn

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	Sr
RADIUM-226	0.314		0.373	0.331	04/28/2022 20:10	WG1850448	⁵ Qc
(<i>T</i>) Barium	128			63.0-143	04/28/2022 20:10	WG1850448	⁶ Gl

MW93-01

Collected date/time: 04/08/22 14:18

SAMPLE RESULTS - 08

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	
RADIUM-228	-0.303	<u>U</u>	0.319	0.593	05/06/2022 15:02	<u>WG1857309</u>	¹ Cp
(<i>T</i>) Barium	85.1			62.0-143	05/06/2022 15:02	<u>WG1857309</u>	² Tc
(<i>T</i>) Yttrium	106			79.0-136	05/06/2022 15:02	<u>WG1857309</u>	³ Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	
RADIUM-226	-0.133		0.213	0.508	04/28/2022 20:10	<u>WG1850448</u>	⁴ Cn
(<i>T</i>) Barium	124			63.0-143	04/28/2022 20:10	<u>WG1850448</u>	⁵ Sr

¹Cp
²Tc
³Ss

⁴Cn
⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW93-02

Collected date/time: 04/08/22 12:23

SAMPLE RESULTS - 09

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	3.56		0.347	0.506	05/09/2022 11:24	WG1857309
(<i>T</i>) Barium	110			62.0-143	05/09/2022 11:24	WG1857309
(<i>T</i>) Yttrium	93.6			79.0-136	05/09/2022 11:24	WG1857309



Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	1.21		0.668	0.352	04/28/2022 20:41	WG1850448
(<i>T</i>) Barium	117			63.0-143	04/28/2022 20:41	WG1850448



MW93-03

Collected date/time: 04/08/22 11:42

SAMPLE RESULTS - 10

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.555		0.304	0.533	05/09/2022 11:24	WG1857309
(<i>T</i>) Barium	90.0			62.0-143	05/09/2022 11:24	WG1857309
(<i>T</i>) Yttrium	102			79.0-136	05/09/2022 11:24	WG1857309



Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	-0.0448	U	0.277	0.540	04/28/2022 20:41	WG1850448
(<i>T</i>) Barium	116			63.0-143	04/28/2022 20:41	WG1850448



MW22-08

Collected date/time: 04/08/22 11:05

SAMPLE RESULTS - 11

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	¹ Cp
RADIUM-228	0.862		0.383	0.666	05/09/2022 11:24	WG1857309	² Tc
(<i>T</i>) Barium	84.3			62.0-143	05/09/2022 11:24	WG1857309	³ Ss
(<i>T</i>) Yttrium	102			79.0-136	05/09/2022 11:24	WG1857309	⁴ Cn

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	⁵ Sr
RADIUM-226	0.313		0.371	0.349	04/28/2022 20:41	WG1850448	⁶ Qc
(<i>T</i>) Barium	118			63.0-143	04/28/2022 20:41	WG1850448	⁷ Gl

MW03-01

Collected date/time: 04/08/22 09:30

SAMPLE RESULTS - 12

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	Cp
RADIUM-228	0.900		0.291	0.496	05/09/2022 11:24	WG1858571	² Tc
(<i>T</i>) Barium	113			62.0-143	05/09/2022 11:24	WG1858571	³ Ss
(<i>T</i>) Yttrium	100			79.0-136	05/09/2022 11:24	WG1858571	⁴ Cn

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	⁵ Sr
RADIUM-226	0.133		0.368	0.553	04/28/2022 20:41	WG1850448	⁶ Qc
(<i>T</i>) Barium	111			63.0-143	04/28/2022 20:41	WG1850448	⁷ Gl



MW03-02

Collected date/time: 04/08/22 10:25

SAMPLE RESULTS - 13

L1481504

Radiochemistry by Method 904

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	Cp
RADIUM-228	0.687		0.317	0.551	05/09/2022 11:24	WG1858571	² Tc
(<i>t</i>) Barium	95.5			62.0-143	05/09/2022 11:24	WG1858571	³ Ss
(<i>t</i>) Yttrium	93.7			79.0-136	05/09/2022 11:24	WG1858571	⁴ Cn

Radiochemistry by Method SM 7500 Ra B

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch	Sr
RADIUM-226	1.65		0.771	0.342	04/28/2022 21:11	WG1850448	⁶ Qc
(<i>t</i>) Barium	121			63.0-143	04/28/2022 21:11	WG1850448	⁷ Gl

³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

WG1857309

Radiochemistry by Method 904

QUALITY CONTROL SUMMARY

L1481504-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3790491-1 05/06/22 15:02

Analyte	MB Result pCi/l	<u>MB Qualifier</u> + / -	MB Uncertainty pCi/l	MB MDA pCi/l
Radium-228	-0.409	<u>U</u>	0.238	0.442
(<i>T</i>) Barium	105		105	
(<i>T</i>) Yttrium	102		102	

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

L1481477-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1481477-12 05/06/22 15:02 • (DUP) R3790491-5 05/06/22 15:02

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-228	0.729	0.321	0.581	2.41	0.946	0.581	1	107	1.68		20	2
(<i>T</i>) Barium	103			104	104							
(<i>T</i>) Yttrium	95.0			97.7	97.7							

Laboratory Control Sample (LCS)

(LCS) R3790491-2 05/06/22 15:02

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-228	5.00	5.67	113	80.0-120	
(<i>T</i>) Barium			101		
(<i>T</i>) Yttrium			110		

Sc

L1481477-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1481477-13 05/06/22 15:02 • (MS) R3790491-3 05/06/22 15:02 • (MSD) R3790491-4 05/06/22 15:02

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits %
Radium-228	16.7	-0.325	19.6	19.7	117	118	1	70.0-130			0.458		20
(<i>T</i>) Barium		104			106	102							
(<i>T</i>) Yttrium		98.7			105	108							

Sc

WG1858571

Radiochemistry by Method 904

QUALITY CONTROL SUMMARY

L1481504-12,13

Method Blank (MB)

(MB) R3792431-1 05/09/22 11:24

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0799	U	0.228	0.417
(T) Barium	115		115	
(T) Yttrium	105		105	

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

L1482890-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1482890-04 05/09/22 11:24 • (DUP) R3792431-2 05/09/22 11:24

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.502	0.296	0.539	0.650	1.02	0.539	1	25.6	0.139	U	20	2
(T) Barium	111			113	113							
(T) Yttrium	111			93.2	93.2							

Laboratory Control Sample (LCS)

(LCS) R3792431-3 05/16/22 12:16

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.00	99.9	80.0-120	
(T) Barium			114		
(T) Yttrium			102		

L1482890-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1482890-06 05/09/22 11:24 • (MS) R3792431-4 05/16/22 12:16 • (MSD) R3792431-5 05/16/22 12:16

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	6.32	14.7	13.5	84.2	71.8	1	70.0-130			8.78		20
(T) Barium		108			108	95.6							
(T) Yttrium		101			93.7	111							

WG1850448

Radiochemistry by Method SM 7500 Ra B

QUALITY CONTROL SUMMARY

L1481504-01,02,03,04,05,06,07,08,09,10,11,12,13

Method Blank (MB)

(MB) R3786827-1 04/28/22 18:39

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0354		0.0980	0.234
(<i>T</i>) Barium	95.3		95.3	

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

L1483320-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1483320-01 04/28/22 21:11 • (DUP) R3786827-5 04/28/22 19:10

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.321	0.381	0.401	0.526	0.547	0.401	1	48.5	0.308		20	2
(<i>T</i>) Barium	97.1			93.5	93.5							

Laboratory Control Sample (LCS)

(LCS) R3786827-2 04/28/22 19:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	5.08	101	90.0-110	
(<i>T</i>) Barium			89.2		

L1482879-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1482879-01 04/28/22 21:11 • (MS) R3786827-3 04/28/22 19:10 • (MSD) R3786827-4 04/28/22 19:10

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.867	22.7	23.8	109	114	1	80.0-120			4.43		20
(<i>T</i>) Barium		97.7		94.2		87.3							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.	¹ Cp
Rec.	Recovery.	² Tc
RER	Replicate Error Ratio.	³ Ss
RPD	Relative Percent Difference.	⁴ Cn
SDG	Sample Delivery Group.	⁵ Sr
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.	⁶ Qc
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁷ GI
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	⁸ AI
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	⁹ Sc
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier	Description
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Oklahoma	CL0069
Illinois	200008	Oregon	9915
Indiana	C-TN-01	Pennsylvania	TN200002
Iowa	364	Rhode Island	68-02979
Kansas	E-10277	South Carolina	LA000356
Kentucky ^{1,6}	KY90010	South Dakota	84004002
Kentucky ²	16	Tennessee ^{1,4}	n/a
Louisiana	AI30792	Texas	2006
Louisiana	LA018	Texas ⁵	T104704245-20-18
Maine	TN00003	Utah	LAB0152
Maryland	324	Vermont	TN000032021-11
Massachusetts	M-TN003	Virginia	VT2006
Michigan	9958	Washington	110033
Minnesota	047-999-395	West Virginia	C847
Mississippi	TN00003	Wisconsin	233
Missouri	340	Wyoming	998093910
Montana	CERT0086	AIHA-LAP,LLC EMLAP	A2LA
A2LA – ISO 17025	1461.01	DOD	100789
A2LA – ISO 17025 ⁵	1461.02	USDA	1461.01
Canada	1461.01		P330-15-00234
EPA-Crypto	TN00003		

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

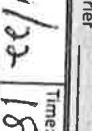
⁸ AI

⁹ Sc

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address		Billing Information		Analysis / Container / Preservative		Chain of Custody		Page <u>1</u> of <u>1</u>	
Enercon - Oklahoma City, OK 1601 Northwest Expressway Suite 1000 Oklahoma City, OK 73118 Report to: Rusty Lynch		Accounts Payable - Lisa Hedrick 1601 NW Expressway Ste. 1000 Oklahoma City, OK 73118 Phone: 405-722-7693		Project Description: GREC, Chouteau, OK		Email To: lynch@enercon.com; current@enercon.com			
 Collected by (print):  Collected by (signature):		Client Project # GDA-00016 Site/Facility ID # GDA-GREC P.O. # GDA-Colle		Please Circle: Lab Project # ENERCOOK-GRDA Rush? (Lab MUST Be Notified) Same Day <input checked="" type="checkbox"/> Five Day Two Day <input checked="" type="checkbox"/> 10 Day (Rad Only) Three Day <input checked="" type="checkbox"/>		Quote # SDG # U4815004 B239 Date Results Needed No. of Units		MT JULIET, TN 12065 Lebanon Rd, Abber, TN 37122 Submitting sample via the chain of custody constitutes acknowledgement and acceptance of the Pace Terms and Conditions found at: http://www.pace-lab.com/hub/ds1-standard-terms.pdf	
Packed on ice <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>		Sample ID		Comp/Grab Matrix • Depth Date Time					
MW 32-01		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 4/17/22 1350 5 X X X X X X		ALK 125mlHDPE-NoPres			
MW 32-02		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1520 5 X X X X X X		Cl, F, SO4 125mlHDPE-NoPres			
MW 32-03		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1630 5 X X X X X X		RA-226, RA-228 1L-HDPE-Add HNO3			
MW 32-04		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1750 5 X X X X X X		SPCON, TDS 250mlHDPE-NoPres			
MW 32-05		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1855 5 X X X X X X		Tot. Rec. Metals 250mlHDPE-HNO3			
MW 32-06		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1825 5 X X X X X X					
MW 32-07		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1315 5 X X X X X X					
MW 93-01		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1418 5 X X X X X X					
MW 93-02		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1223 5 X X X X X X					
MW 93-03		<input checked="" type="checkbox"/> DW		<input checked="" type="checkbox"/> 1142 5 X X X X X X					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		pH _____ Temp _____ Flow _____ Other _____							
Relinquished by: (Signature)  Relinquished by: (Signature)		Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input checked="" type="checkbox"/> Courier		Tracking # S719 G176 0340 / 0339 Date: 4/11/22 Time: 1800 Received by: (Signature)		Sample Receipt Checklist CC Seal Present/Intact: <input checked="" type="checkbox"/> NP COG Signed/Present: <input checked="" type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> N If applicable VOA zero headspace: <input checked="" type="checkbox"/> N Preservation Correct/checked: <input checked="" type="checkbox"/> N RAD Screen <0.5 mb/hr: <input checked="" type="checkbox"/> N		If preservation required by Login: Date/Time Date: 4/12/22 Time: 05 Hold: <input checked="" type="checkbox"/> Received for lab by: (Signature) 	
Relinquished by: (Signature)		Date: _____ Time: _____ Received by: (Signature)		Temp 24°C Trip Blank Received: <input checked="" type="checkbox"/> No TBR: <input checked="" type="checkbox"/> H2O / MeOH				Condition: <input checked="" type="checkbox"/> NCF NCF <input checked="" type="checkbox"/> OK	
Relinquished by: (Signature)		Date: _____ Time: _____ Received by: (Signature)							

Company Name/Address: Enercon - Oklahoma City, OK 1601 Northwest Expressway Suite 1000 Oklahoma City, OK 73118			Billing Information: Accounts Payable - Lisa Hedrick 1601 NW Expressway Ste.1000 Oklahoma City, OK 73118			Pres Chk	Analysis / Container / Preservative						Chain of Custody	Page <u>1</u> of <u>1</u>	
							✓	✓	✓						
Report to: Rusty Lynch			Email To: rlynn@enercon.com;ccurrent@enercon.com												
Project Description: GREC, Chouteau, OK		City/State Collected:	<i>Chouteau, OK</i>		Please Circle: PT MT CT ET										
Phone: 405-722-7693		Client Project #	<i>GRDA-00016</i>		Lab Project # ENERCOOK-GRDA										
Collected by (print): <i>Seth Scherm</i>		Site/Facility ID #	<i>GRDA-GREC</i>		P.O. # <i>GRDA-00016</i>										
Collected by (signature): <i>Seth Scherm</i>		Rush? (Lab MUST Be Notified)			Quote #										
Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>		Same Day	Five Day	Next Day	S Day (Rad Only)	Two Day	10 Day (Rad Only)	Date Results Needed <i>Standard TAT</i>	No. of Cntrs						
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time									
MW22-08		G	DW	—	4/18/22	1105	5	X X X X X	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, RA-228 1L-HDPE-Add HNO3	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3		
MW03-01			DW	—	1	0930	5	X X X X X							
MW03-02			DW	—	1	1025	5	X X X X X							
			DW				5	X X X X X							
			DW				5	X X X X X							
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:										pH _____ Temp _____	Sample Receipt Checklist		
		Samples returned via: UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier				Tracking #						Flow _____ Other _____	COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> N	If Applicable	
													COC Signed/Accurate: <input type="checkbox"/> N <input checked="" type="checkbox"/> N	VOA Zero Headspace: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
													Bottles arrive intact: <input type="checkbox"/> N <input checked="" type="checkbox"/> N	Preservation Correct/Checked: <input type="checkbox"/> C <input checked="" type="checkbox"/> N	
													Correct bottles used: <input type="checkbox"/> N <input checked="" type="checkbox"/> N	RAD Screen <0.5 mR/hr: <input type="checkbox"/> N <input checked="" type="checkbox"/> N	
													Sufficient volume sent: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
Relinquished by : (Signature) <i>Seth Scherm</i>		Date: <i>4/11/22</i>	Time: <i>1600</i>	Received by: (Signature)				Trip Blank Received: <input checked="" type="checkbox"/> Yes / No <input type="checkbox"/> MeOH TBR		If preservation required by Login: Date/Time					
Relinquished by : (Signature)		Date:	Time:	Received by: (Signature)				Temp <i>24.6 °C</i>		Bottles Received: <i>1840 = 68</i>					
Relinquished by : (Signature)		Date:	Time:	Received for lab by: (Signature) <i>Robert Potts</i>				Date: <i>4/12/22</i>	Time: <i>930</i>	Hold:	Condition: <input checked="" type="checkbox"/> NCF / <input type="checkbox"/> OK				

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<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # *L481504*

Table #

Acctnum: ENERCOOK

Template:T206542

Prelogin: P915590

PM: 104 - Jason Romer

PB: *3/31/22 May*

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

-11

-12

-13

SS

Attachment B
Statistical Output

2022 Annual Groundwater Monitoring and Assessment of Corrective Measures

January 31, 2023

Attachment B – Statistical Output

This attachment will be provided electronically. In printed version, it is over 700 pages.