

## **DATA SUMMARY POSTING**

Station: Midwest Generation Will County Generating Station

Regulated Unit(s):   Pond 2 S (IEPA ID No. W1978100011-03)  
                          Pond 3 S (IEPA ID No. W1978100011-04)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1<sup>st</sup> quarter 2024 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted October 31, 2021. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.







Table 2. Groundwater Turbidity - Ponds 25 and 35, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-05	2/23/2021	0.63
	4/10/2021	1.28
	4/25/2021	2.41
	5/24/2021	3.78
	6/11/2021	2.4
	6/28/2021	2.89
	7/12/2021	3.93
	8/4/2021	1.35
	8/24/2021	3.5
	9/24/2021	3.59
	11/23/2021	4.45
	2/24/2022	0.37
	6/16/2022	1.76
	8/25/2022	2.99
	11/15/2022	38.9
	2/23/2023	2.18
	4/26/2023	1.6
7/26/2023	7.1	
10/24/2023	0.80	
2/7/2024	0.82	
MW-06	2/23/2021	0.31
	4/10/2021	11.17
	4/25/2021	15.04
	5/24/2021	5.18
	6/11/2021	2.96
	6/29/2021	4.06
	7/12/2021	6.43
	8/4/2021	3.5
	8/24/2021	7.0
	9/24/2021	4.2
	11/23/2021	6.38
	2/22/2022	0.47
	6/14/2022	3.87
	8/25/2022	2.6
	11/16/2022	8.12
	2/23/2023	10.08
	4/26/2023	47.6
7/26/2023	3.7	
10/24/2023	0.80	
2/7/2024	5.24	
MW-09	3/1/2021	0.86
	4/10/2021	6.91
	4/25/2021	2.08
	5/25/2021	14.12
	6/11/2021	2.39
	6/29/2021	2.97
	7/12/2021	3.94
	8/4/2021	0.0
	8/25/2021	19.9
	9/24/2021	3.67
	11/23/2021	19.07
	2/22/2022	0.59
	6/15/2022	113.77
	8/25/2022	1.93
	11/16/2022	11.73
	2/23/2023	10.34
	4/27/2023	2.9
7/26/2023	6.5	
10/24/2023	9.5	
2/7/2024	9.3	
MW-10	2/25/2021	172.14
	4/10/2021	29.99
	4/25/2021	34.77
	5/25/2021	44.14
	6/11/2021	92.03
	6/29/2021	29.35
	7/12/2021	23.45
	8/4/2021	47.68
	8/26/2021	27.5
	9/24/2021	54.2
	11/23/2021	312.05
	2/24/2022	72.18
	6/14/2022	55.5
	8/25/2022	8.83
	11/16/2022	32.4
	2/23/2023	53.32
	4/26/2023	85.3
7/26/2023	1.4	
10/24/2023	5.4	
2/7/2024	75.44	
MW-11	4/10/2021	269.25
	4/25/2021	60.28
	5/25/2021	9.56
	6/11/2021	77.09
	6/29/2021	7.83
	7/12/2021	39.12
	8/4/2021	9.53
	8/26/2021	11.4
	9/24/2021	9.68
	11/23/2021	1.85
	2/23/2022	162.43
	6/13/2022	27.05
	8/23/2022	10.9
	11/16/2022	60.3
	2/21/2023	51.3
	4/25/2023	56.6
	7/25/2023	1.0
10/19/2023	3.90	
2/5/2024	39.20	
MW-12	4/10/2021	31.67
	4/25/2021	15.04
	5/25/2021	28.65
	6/11/2021	6.1
	6/29/2021	13.04
	7/12/2021	12.99
	8/4/2021	11.97
	8/26/2021	10.9
	9/24/2021	11.97
	11/23/2021	3.88
	2/24/2022	82.8
	6/13/2022	4.24
	8/23/2022	7.35
	11/16/2022	2.85
	2/21/2023	1.82
	4/25/2023	2.1
	7/25/2023	6.8
10/19/2023	3.00	
2/5/2024	2.96	

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: James Thorne  
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1800 Channahon Road  
Joliet, Illinois 60436

Generated 3/5/2024 1:57:56 PM

**JOB DESCRIPTION**

Will County CCR 2S/3S

**JOB NUMBER**

500-245763-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	16
QC Association . . . . .	17
QC Sample Results . . . . .	21
Chain of Custody . . . . .	28
Receipt Checklists . . . . .	30
Chronicle . . . . .	31



# Case Narrative

Client: Midwest Generation EME LLC  
Project: Will County CCR 2S/3S

Job ID: 500-245763-1

**Job ID: 500-245763-1**

**Eurofins Chicago**

## Job Narrative 500-245763-1

### Receipt

The samples were received on 2/6/2024 4:03 PM and 2/8/2024 9:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4°C, 1.6°C and 2.4°C.

### Metals

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 753405 recovered above the upper control limit for Be. The samples associated with this CCV were below the reporting limit for the affected analyte; therefore, the data have been reported.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 753405 was above the upper control limit. The affected analytes are: Sb. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 753633 recovered above the upper control limit for arsenic, cadmium, cobalt, nickel, selenium, thallium, and vanadium. The samples associated with this CCV were below the reporting for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

#### Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245763-1	MW-11	Water	02/05/24 14:17	02/06/24 16:03
500-245763-2	MW-12	Water	02/05/24 11:35	02/06/24 16:03
500-245763-3	2S/3S Duplicate	Water	02/05/24 00:00	02/06/24 16:03
500-245763-4	MW-16	Water	02/05/24 13:26	02/06/24 16:03
500-245763-5	MW-17	Water	02/05/24 12:23	02/06/24 16:03
500-245763-6	MW-05	Water	02/07/24 09:10	02/08/24 09:02
500-245763-7	MW-06	Water	02/07/24 10:21	02/08/24 09:02
500-245763-8	MW-09	Water	02/07/24 12:58	02/08/24 09:02
500-245763-9	MW-10	Water	02/07/24 11:27	02/08/24 09:02

- 1
- 2
- 3
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- 5
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- 7
- 8
- 9
- 10
- 11
- 12

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-11**  
**Date Collected: 02/05/24 14:17**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-1**  
**Matrix: Water**

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.025</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
<b>Boron</b>	<b>2.4</b>		0.50		mg/L		02/07/24 09:01	02/14/24 13:47	10
<b>Barium</b>	<b>0.18</b>		0.0025		mg/L		02/07/24 09:01	02/08/24 19:07	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		02/07/24 09:01	02/08/24 19:07	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:07	1
<b>Molybdenum</b>	<b>0.029</b>		0.0050		mg/L		02/07/24 09:01	02/08/24 19:07	1
<b>Lead</b>	<b>0.00056</b>		0.00050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:07	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:07	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:07	1
Lithium	<0.10	F1	0.10		mg/L		02/07/24 09:01	02/14/24 13:47	10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>730</b>		10		mg/L			02/06/24 22:06	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			02/07/24 15:32	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.45</b>		0.10		mg/L			03/04/24 16:16	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>78</b>		10		mg/L			02/20/24 12:08	2

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-12**  
**Date Collected: 02/05/24 11:35**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-2**  
**Matrix: Water**

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0017</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
<b>Boron</b>	<b>2.2</b>		0.50		mg/L		02/07/24 09:01	02/14/24 14:07	10
<b>Barium</b>	<b>0.18</b>		0.0025		mg/L		02/07/24 09:01	02/08/24 19:24	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
<b>Calcium</b>	<b>170</b>		0.20		mg/L		02/07/24 09:01	02/08/24 19:24	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:24	1
<b>Molybdenum</b>	<b>0.024</b>		0.0050		mg/L		02/07/24 09:01	02/08/24 19:24	1
<b>Lead</b>	<b>0.00060</b>		0.00050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:24	1
<b>Selenium</b>	<b>0.0044</b>		0.0025		mg/L		02/07/24 09:01	02/08/24 19:24	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:24	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:07	10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			02/06/24 22:09	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>140</b>		10		mg/L			02/07/24 13:28	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			03/04/24 16:21	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		25		mg/L			02/20/24 12:09	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: 2S/3S Duplicate**

**Lab Sample ID: 500-245763-3**

Date Collected: 02/05/24 00:00

Matrix: Water

Date Received: 02/06/24 16:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0022</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
<b>Boron</b>	<b>0.95</b>		0.50		mg/L		02/07/24 09:01	02/14/24 14:11	10
<b>Barium</b>	<b>0.082</b>		0.0025		mg/L		02/07/24 09:01	02/08/24 19:28	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		02/07/24 09:01	02/08/24 19:28	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:28	1
<b>Cobalt</b>	<b>0.0013</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:28	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:28	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:28	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:28	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:11	10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>900</b>		10		mg/L			02/06/24 22:11	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>160</b>		10		mg/L			02/07/24 13:28	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			03/04/24 16:25	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>170</b>		25		mg/L			02/20/24 12:05	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-16**

**Lab Sample ID: 500-245763-4**

Date Collected: 02/05/24 13:26

Matrix: Water

Date Received: 02/06/24 16:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0022</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
<b>Boron</b>	<b>1.0</b>		0.50		mg/L		02/07/24 09:01	02/14/24 14:15	10
<b>Barium</b>	<b>0.083</b>		0.0025		mg/L		02/07/24 09:01	02/08/24 19:31	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		02/07/24 09:01	02/08/24 19:31	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:31	1
<b>Cobalt</b>	<b>0.0014</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:31	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:31	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:31	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:31	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:15	10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>930</b>		10		mg/L			02/06/24 22:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>160</b>		10		mg/L			02/07/24 13:31	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			03/04/24 16:30	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>170</b>		25		mg/L			02/20/24 12:08	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-245763-5**

Date Collected: 02/05/24 12:23

Matrix: Water

Date Received: 02/06/24 16:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0052</b>		0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
<b>Boron</b>	<b>3.1</b>		0.50		mg/L		02/07/24 09:01	02/14/24 14:19	10
<b>Barium</b>	<b>0.050</b>		0.0025		mg/L		02/07/24 09:01	02/08/24 19:42	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
<b>Calcium</b>	<b>65</b>		0.20		mg/L		02/07/24 09:01	02/08/24 19:42	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:42	1
<b>Molybdenum</b>	<b>0.14</b>		0.0050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:42	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:42	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:42	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:19	10

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>850</b>		10		mg/L			02/06/24 22:16	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			02/07/24 13:31	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.85</b>		0.10		mg/L			03/04/24 16:34	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>340</b>		50		mg/L			02/20/24 12:33	10



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-245763-6**

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 09:02

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0018</b>		0.0010		mg/L		02/09/24 08:52	02/12/24 19:00	1
<b>Boron</b>	<b>4.8</b>		0.50		mg/L		02/09/24 08:52	02/13/24 15:15	10
<b>Barium</b>	<b>0.060</b>		0.0025		mg/L		02/09/24 08:52	02/12/24 19:00	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:15	10
<b>Calcium</b>	<b>260</b>		0.20		mg/L		02/09/24 08:52	02/12/24 19:00	1
Cadmium	<0.00050	^+	0.00050		mg/L		02/09/24 08:52	02/09/24 21:23	1
Cobalt	<0.0010	^+	0.0010		mg/L		02/09/24 08:52	02/09/24 21:23	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:00	1
<b>Molybdenum</b>	<b>0.046</b>		0.0050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:15	10
<b>Selenium</b>	<b>0.055</b>		0.0025		mg/L		02/09/24 08:52	02/12/24 19:00	1
Thallium	<0.0020	^+	0.0020		mg/L		02/09/24 08:52	02/09/24 21:23	1
<b>Lithium</b>	<b>0.017</b>		0.010		mg/L		02/09/24 08:52	02/12/24 19:00	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1900</b>		10		mg/L			02/09/24 00:47	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>38</b>		2.0		mg/L			02/11/24 14:24	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.32</b>		0.10		mg/L			03/04/24 16:39	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>800</b>		100		mg/L			02/20/24 12:33	20

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-06**

**Lab Sample ID: 500-245763-7**

Date Collected: 02/07/24 10:21

Matrix: Water

Date Received: 02/08/24 09:02

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0017</b>		0.0010		mg/L		02/09/24 08:52	02/12/24 19:04	1
<b>Boron</b>	<b>2.5</b>		0.50		mg/L		02/09/24 08:52	02/13/24 15:26	10
<b>Barium</b>	<b>0.077</b>		0.0025		mg/L		02/09/24 08:52	02/12/24 19:04	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:26	10
<b>Calcium</b>	<b>96</b>		0.20		mg/L		02/09/24 08:52	02/12/24 19:04	1
Cadmium	<0.00050	^+	0.00050		mg/L		02/09/24 08:52	02/09/24 21:27	1
Cobalt	<0.0010	^+	0.0010		mg/L		02/09/24 08:52	02/09/24 21:27	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:04	1
<b>Molybdenum</b>	<b>0.021</b>		0.0050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:26	10
Selenium	<0.0025	^+	0.0025		mg/L		02/09/24 08:52	02/09/24 21:27	1
Thallium	<0.0020	^+	0.0020		mg/L		02/09/24 08:52	02/09/24 21:27	1
<b>Lithium</b>	<b>0.015</b>		0.010		mg/L		02/09/24 08:52	02/12/24 19:04	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>570</b>		10		mg/L			02/09/24 00:49	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>12</b>		2.0		mg/L			02/11/24 14:24	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.39</b>		0.10		mg/L			03/04/24 16:44	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>150</b>		25		mg/L			02/20/24 12:33	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-09**

**Lab Sample ID: 500-245763-8**

Date Collected: 02/07/24 12:58

Matrix: Water

Date Received: 02/08/24 09:02

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0082</b>		0.0010		mg/L		02/09/24 08:52	02/09/24 21:38	1
<b>Boron</b>	<b>2.1</b>		0.50		mg/L		02/09/24 08:52	02/13/24 15:30	10
<b>Barium</b>	<b>0.035</b>		0.0025		mg/L		02/09/24 08:52	02/12/24 19:08	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:30	10
<b>Calcium</b>	<b>39</b>		0.20		mg/L		02/09/24 08:52	02/09/24 21:38	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 21:38	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 21:38	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:08	1
<b>Molybdenum</b>	<b>0.068</b>		0.0050		mg/L		02/09/24 08:52	02/09/24 21:38	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:08	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:30	10
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 21:38	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 21:38	1
Lithium	<0.010		0.010		mg/L		02/09/24 08:52	02/12/24 19:08	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>680</b>		10		mg/L			02/09/24 00:52	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>190</b>		10		mg/L			02/11/24 14:42	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.60</b>		0.10		mg/L			03/04/24 16:58	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>230</b>		25		mg/L			02/20/24 12:05	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-245763-9**

Date Collected: 02/07/24 11:27

Matrix: Water

Date Received: 02/08/24 09:02

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.012</b>		0.0010		mg/L		02/09/24 08:52	02/09/24 21:42	1
<b>Boron</b>	<b>3.7</b>		0.50		mg/L		02/09/24 08:52	02/13/24 15:34	10
<b>Barium</b>	<b>0.11</b>		0.0025		mg/L		02/09/24 08:52	02/12/24 19:11	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:34	10
<b>Calcium</b>	<b>130</b>		0.20		mg/L		02/09/24 08:52	02/09/24 21:42	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 21:42	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 21:42	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:11	1
<b>Molybdenum</b>	<b>0.082</b>		0.0050		mg/L		02/09/24 08:52	02/09/24 21:42	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:11	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:34	10
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 21:42	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 21:42	1
<b>Lithium</b>	<b>0.016</b>		0.010		mg/L		02/09/24 08:52	02/12/24 19:11	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>910</b>		10		mg/L			02/09/24 00:54	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			02/21/24 15:14	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.69</b>		0.10		mg/L			03/04/24 17:03	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>290</b>		50		mg/L			02/20/24 14:02	10

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Metals

### Prep Batch: 752999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	3005A	
500-245763-2	MW-12	Total Recoverable	Water	3005A	
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-245763-4	MW-16	Total Recoverable	Water	3005A	
500-245763-5	MW-17	Total Recoverable	Water	3005A	
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-245763-1 MS	MW-11	Total Recoverable	Water	3005A	
500-245763-1 MSD	MW-11	Total Recoverable	Water	3005A	
500-245763-1 DU	MW-11	Total Recoverable	Water	3005A	

### Analysis Batch: 753405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	6020B	752999
500-245763-2	MW-12	Total Recoverable	Water	6020B	752999
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	6020B	752999
500-245763-4	MW-16	Total Recoverable	Water	6020B	752999
500-245763-5	MW-17	Total Recoverable	Water	6020B	752999
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	6020B	752999
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752999
500-245763-1 MS	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 MSD	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 DU	MW-11	Total Recoverable	Water	6020B	752999

### Prep Batch: 753415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	3005A	
500-245763-7	MW-06	Total Recoverable	Water	3005A	
500-245763-8	MW-09	Total Recoverable	Water	3005A	
500-245763-9	MW-10	Total Recoverable	Water	3005A	
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 753633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

### Analysis Batch: 753801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

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# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Metals

### Analysis Batch: 753991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

### Analysis Batch: 754170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	6020B	752999
500-245763-2	MW-12	Total Recoverable	Water	6020B	752999
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	6020B	752999
500-245763-4	MW-16	Total Recoverable	Water	6020B	752999
500-245763-5	MW-17	Total Recoverable	Water	6020B	752999
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	6020B	752999
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752999
500-245763-1 MS	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 MSD	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 DU	MW-11	Total Recoverable	Water	6020B	752999

### Prep Batch: 755030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	7470A	
500-245763-2	MW-12	Total/NA	Water	7470A	
500-245763-3	2S/3S Duplicate	Total/NA	Water	7470A	
500-245763-4	MW-16	Total/NA	Water	7470A	
500-245763-5	MW-17	Total/NA	Water	7470A	
500-245763-6	MW-05	Total/NA	Water	7470A	
500-245763-7	MW-06	Total/NA	Water	7470A	
500-245763-8	MW-09	Total/NA	Water	7470A	
500-245763-9	MW-10	Total/NA	Water	7470A	
MB 500-755030/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-755030/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 755246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	7470A	755030
500-245763-2	MW-12	Total/NA	Water	7470A	755030
500-245763-3	2S/3S Duplicate	Total/NA	Water	7470A	755030
500-245763-4	MW-16	Total/NA	Water	7470A	755030
500-245763-5	MW-17	Total/NA	Water	7470A	755030
500-245763-6	MW-05	Total/NA	Water	7470A	755030
500-245763-7	MW-06	Total/NA	Water	7470A	755030
500-245763-8	MW-09	Total/NA	Water	7470A	755030
500-245763-9	MW-10	Total/NA	Water	7470A	755030
MB 500-755030/12-A	Method Blank	Total/NA	Water	7470A	755030
LCS 500-755030/13-A	Lab Control Sample	Total/NA	Water	7470A	755030

# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## General Chemistry

### Analysis Batch: 752912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 2540C	
500-245763-2	MW-12	Total/NA	Water	SM 2540C	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-245763-4	MW-16	Total/NA	Water	SM 2540C	
500-245763-5	MW-17	Total/NA	Water	SM 2540C	
MB 500-752912/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-752912/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 753095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-245763-2	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-245763-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-245763-5	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-753095/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-753095/70	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753095/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753095/71	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 753339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	SM 2540C	
500-245763-7	MW-06	Total/NA	Water	SM 2540C	
500-245763-8	MW-09	Total/NA	Water	SM 2540C	
500-245763-9	MW-10	Total/NA	Water	SM 2540C	
MB 500-753339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-753339/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 753572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-245763-7	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-245763-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-753572/109	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753572/110	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 754863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-245763-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-245763-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-245763-5	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-245763-6	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-245763-7	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-245763-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-245763-9	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-754863/121	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-754863/70	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-754863/122	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## General Chemistry (Continued)

### Analysis Batch: 754863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-754863/71	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 755087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-9	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 500-755087/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755087/5	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 756829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 F C	
500-245763-2	MW-12	Total/NA	Water	SM 4500 F C	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-245763-4	MW-16	Total/NA	Water	SM 4500 F C	
500-245763-5	MW-17	Total/NA	Water	SM 4500 F C	
500-245763-6	MW-05	Total/NA	Water	SM 4500 F C	
500-245763-7	MW-06	Total/NA	Water	SM 4500 F C	
500-245763-8	MW-09	Total/NA	Water	SM 4500 F C	
500-245763-9	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-756829/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-756829/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 500-752999/1-A**  
**Matrix: Water**  
**Analysis Batch: 753405**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Barium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:00	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Calcium	<0.20		0.20		mg/L		02/07/24 09:01	02/08/24 19:00	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Molybdenum	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:00	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:00	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:00	1

**Lab Sample ID: MB 500-752999/1-A**  
**Matrix: Water**  
**Analysis Batch: 754170**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		02/07/24 09:01	02/14/24 13:43	1
Lithium	<0.010		0.010		mg/L		02/07/24 09:01	02/14/24 13:43	1

**Lab Sample ID: LCS 500-752999/2-A**  
**Matrix: Water**  
**Analysis Batch: 753405**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.530		mg/L		106	80 - 120
Beryllium	0.0500	0.0580	^+	mg/L		116	80 - 120
Calcium	10.0	9.01		mg/L		90	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Cobalt	0.500	0.472		mg/L		94	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Molybdenum	1.00	0.962		mg/L		96	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Antimony	0.500	0.521	^1+	mg/L		104	80 - 120
Selenium	0.100	0.0985		mg/L		98	80 - 120
Thallium	0.100	0.0990		mg/L		99	80 - 120

**Lab Sample ID: LCS 500-752999/2-A**  
**Matrix: Water**  
**Analysis Batch: 754170**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.100	0.106		mg/L		106	80 - 120

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-245763-1 MS**  
**Matrix: Water**  
**Analysis Batch: 753405**

**Client Sample ID: MW-11**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Arsenic	0.025		0.100	0.126		mg/L		101	75 - 125	
Barium	0.18		0.500	0.687		mg/L		101	75 - 125	
Calcium	120		10.0	123	4	mg/L		41	75 - 125	
Cadmium	<0.00050		0.0500	0.0513		mg/L		103	75 - 125	
Cobalt	<0.0010		0.500	0.452		mg/L		90	75 - 125	
Chromium	<0.0050		0.200	0.189		mg/L		94	75 - 125	
Molybdenum	0.029		1.00	1.01		mg/L		98	75 - 125	
Lead	0.00056		0.100	0.0988		mg/L		98	75 - 125	
Antimony	<0.0030	^1+	0.500	0.521	^1+	mg/L		104	75 - 125	
Selenium	<0.0025		0.100	0.0983		mg/L		98	75 - 125	
Thallium	<0.0020		0.100	0.0958		mg/L		96	75 - 125	

**Lab Sample ID: 500-245763-1 MS**  
**Matrix: Water**  
**Analysis Batch: 754170**

**Client Sample ID: MW-11**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Boron	2.4		1.00	3.63		mg/L		125	75 - 125	
Lithium	<0.10	F1	0.100	0.134	F1	mg/L		134	75 - 125	

**Lab Sample ID: 500-245763-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 753405**

**Client Sample ID: MW-11**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Arsenic	0.025		0.100	0.127		mg/L		102	75 - 125	1	20	
Barium	0.18		0.500	0.690		mg/L		102	75 - 125	0	20	
Calcium	120		10.0	125	4	mg/L		61	75 - 125	2	20	
Cadmium	<0.00050		0.0500	0.0516		mg/L		103	75 - 125	1	20	
Cobalt	<0.0010		0.500	0.460		mg/L		92	75 - 125	2	20	
Chromium	<0.0050		0.200	0.189		mg/L		95	75 - 125	0	20	
Molybdenum	0.029		1.00	1.03		mg/L		100	75 - 125	1	20	
Lead	0.00056		0.100	0.0996		mg/L		99	75 - 125	1	20	
Antimony	<0.0030	^1+	0.500	0.525	^1+	mg/L		105	75 - 125	1	20	
Selenium	<0.0025		0.100	0.0991		mg/L		99	75 - 125	1	20	
Thallium	<0.0020		0.100	0.0960		mg/L		96	75 - 125	0	20	

**Lab Sample ID: 500-245763-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 754170**

**Client Sample ID: MW-11**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Boron	2.4		1.00	3.54		mg/L		115	75 - 125	3	20	
Lithium	<0.10	F1	0.100	0.117		mg/L		117	75 - 125	13	20	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-245763-1 DU**  
**Matrix: Water**  
**Analysis Batch: 753405**

**Client Sample ID: MW-11**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.025		0.0255		mg/L		1	20
Barium	0.18		0.184		mg/L		0.9	20
Beryllium	<0.0010	^+	<0.0010	^+	mg/L		NC	20
Calcium	120		119		mg/L		0.2	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Molybdenum	0.029		0.0286		mg/L		0.8	20
Lead	0.00056		0.000522		mg/L		7	20
Antimony	<0.0030	^1+	<0.0030	^1+	mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: 500-245763-1 DU**  
**Matrix: Water**  
**Analysis Batch: 754170**

**Client Sample ID: MW-11**  
**Prep Type: Total Recoverable**  
**Prep Batch: 752999**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	2.4		2.56		mg/L		7	20
Lithium	<0.10	F1	<0.10		mg/L		NC	20

**Lab Sample ID: MB 500-753415/1-A**  
**Matrix: Water**  
**Analysis Batch: 753633**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 753415**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 20:08	1
Calcium	<0.20		0.20		mg/L		02/09/24 08:52	02/09/24 20:08	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 20:08	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 20:08	1
Molybdenum	<0.0050		0.0050		mg/L		02/09/24 08:52	02/09/24 20:08	1
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 20:08	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 20:08	1

**Lab Sample ID: MB 500-753415/1-A**  
**Matrix: Water**  
**Analysis Batch: 753801**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 753415**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/12/24 16:33	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 16:33	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 16:33	1
Lithium	<0.010		0.010		mg/L		02/09/24 08:52	02/12/24 16:33	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 500-753415/1-A**  
**Matrix: Water**  
**Analysis Batch: 753991**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 753415**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		02/09/24 08:52	02/13/24 14:07	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/09/24 08:52	02/13/24 14:07	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/09/24 08:52	02/13/24 14:07	1

**Lab Sample ID: LCS 500-753415/2-A**  
**Matrix: Water**  
**Analysis Batch: 753633**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 753415**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10.0	10.1		mg/L		101	80 - 120
Cadmium	0.0500	0.0602		mg/L		120	80 - 120
Cobalt	0.500	0.591		mg/L		118	80 - 120
Molybdenum	1.00	1.15		mg/L		115	80 - 120
Selenium	0.100	0.118		mg/L		118	80 - 120
Thallium	0.100	0.118		mg/L		118	80 - 120

**Lab Sample ID: LCS 500-753415/2-A**  
**Matrix: Water**  
**Analysis Batch: 753801**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 753415**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.191		mg/L		95	80 - 120
Lead	0.100	0.0947		mg/L		95	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120

**Lab Sample ID: LCS 500-753415/2-A**  
**Matrix: Water**  
**Analysis Batch: 753991**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 753415**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0486	^1+	mg/L		97	80 - 120
Antimony	0.500	0.532	^1+	mg/L		106	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-755030/12-A**  
**Matrix: Water**  
**Analysis Batch: 755246**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 755030**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:21	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-755030/13-A  
 Matrix: Water  
 Analysis Batch: 755246

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 755030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00199		mg/L		99	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-752912/1  
 Matrix: Water  
 Analysis Batch: 752912

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/06/24 21:38	1

Lab Sample ID: LCS 500-752912/2  
 Matrix: Water  
 Analysis Batch: 752912

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: MB 500-753339/1  
 Matrix: Water  
 Analysis Batch: 753339

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/09/24 00:29	1

Lab Sample ID: LCS 500-753339/2  
 Matrix: Water  
 Analysis Batch: 753339

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-753095/16  
 Matrix: Water  
 Analysis Batch: 753095

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/07/24 13:03	1

Lab Sample ID: MB 500-753095/70  
 Matrix: Water  
 Analysis Batch: 753095

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/07/24 15:01	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 500-753095/17  
 Matrix: Water  
 Analysis Batch: 753095

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.7		mg/L		104	85 - 115

Lab Sample ID: LCS 500-753095/71  
 Matrix: Water  
 Analysis Batch: 753095

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.8		mg/L		109	85 - 115

Lab Sample ID: MB 500-753572/109  
 Matrix: Water  
 Analysis Batch: 753572

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/11/24 14:22	1

Lab Sample ID: LCS 500-753572/110  
 Matrix: Water  
 Analysis Batch: 753572

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.9		mg/L		110	85 - 115

Lab Sample ID: MB 500-755087/4  
 Matrix: Water  
 Analysis Batch: 755087

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/21/24 13:25	1

Lab Sample ID: LCS 500-755087/5  
 Matrix: Water  
 Analysis Batch: 755087

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		98	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-756829/3  
 Matrix: Water  
 Analysis Batch: 756829

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/04/24 15:03	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-756829/4  
 Matrix: Water  
 Analysis Batch: 756829

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-754863/121  
 Matrix: Water  
 Analysis Batch: 754863

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			02/20/24 12:55	1

Lab Sample ID: MB 500-754863/70  
 Matrix: Water  
 Analysis Batch: 754863

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			02/20/24 11:48	1

Lab Sample ID: LCS 500-754863/122  
 Matrix: Water  
 Analysis Batch: 754863

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	23.2		mg/L		116	88 - 123

Lab Sample ID: LCS 500-754863/71  
 Matrix: Water  
 Analysis Batch: 754863

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	22.7		mg/L		113	88 - 123



**Eurofins Chicago**

2417 Bond Street  
 University Park, IL 60484  
 Phone 708-534-5200 Fax 708-534-5211

**Chain of Custody Record**

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<b>Client Information</b>		Sampler: <u>JAN JOHN HONIGSON</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-120314-48726 1						
Client Contact: Mr Tim Stohrer		Phone: <u>630-290-6850</u>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin		Page: Page 1 of 1						
Company: KPRG and Associates, Inc.				PWSID	<b>Analysis Requested</b>				Job #: <u>500-245763</u>					
Address: 414 Plaza Drive Suite 106		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_C1E, SM4500_S04_E	500-245763 COC 	<b>Preservation Codes:</b>					
City: Westmont		TAT Requested (days)							Total Number of containers	A - HCL	M - Hexane			
State, Zip: IL, 60559		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No							5	B - NaOH	N - None			
Phone		PO #: 4502116506							6	C - Zn Acetate	O - AsNaO2			
Email: tims@kprginc.com		WO #:							7	D - Nitric Acid	P - Na2O4S			
Project Name: Will County 2S/3S Event Desc Quarterly GW Monitoring		Project #: 50011609		8	E - NaHSO4	Q - Na2SO3								
Site: Illinois		SSOW#:		9	F - MeOH	R - Na2S2O3								
<b>Sample Identification</b>		<b>Sample Date</b> / <b>Sample Time</b>		<b>Sample Type</b> (C=comp, G=grab) BT=Tissue, A=Air		<b>Matrix</b> (W=water, S=solid, O=waste/soil)		<b>Special Instructions/Note:</b>		10	G - Amchlor	T - TSP Dodecahydrate		
										11	12	H - Ascorbic Acid	U - Acetone	
										1	I - Ice	V - MCAA		
										2	J - DI Water	W - pH 4-5		
										3	K - EDTA	Y - Trizma		
										4	L - EDA	Z - other (specify)		
										5				
										6				
										7				
										8				
										9				
										10				

Possible Hazard Identification				Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2-6-24 06:03</u>		Company: <u>KPRG</u>		Received by: <u>[Signature]</u>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>37-33-19 -&gt; 24, 11-710</u>			

GCN 21

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Eurofins Chicago

2417 Bond Street  
University Park, IL 60484  
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

<b>Client Information</b>		Sampler: <u>IAN JOHN HOWISON</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-120314-48726 1					
Client Contact: Mr Tim Stohner		Phone: <u>630 290 6850</u>		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin		Page: Page 1 of 1					
Company: KPRG and Associates, Inc		PWSID:		<b>Analysis Requested</b>						Job #: <u>500-245763</u>			
Address: 414 Plaza Drive Suite 106 City: Westmont State, Zip: IL, 60559 Phone: 500-245763 COC		Due Date Requested:		Field Filtered Sample (Yes or No) Perfrom MS/MSD (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_CL_E, SM4500_S04_E						Preservation Codes:			
Email: tims@kprginc.com		TAT Requested (days):								A - HCL		M - Hexane	
Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B - NaOH		N - None	
Site: Illinois		PO #: 4502116506		C - Zn Acetate		O - AsNaO2		P - Na2O4S					
SSOW#:		WO #:		D - Nitric Acid		Q - Na2SO3		R - Na2S2O3					
Project #: 50011609 CCR		Matrix (W=water, S=solid, O=wastewater, ST=Tissue, A=Air)		E - NaHSO4		S - H2SO4		T - TSP Dodecahydrate					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		U - Ice		V - MCAA			
								W - DI Water		W - pH 4-5			
								X - EDTA		Y - Trizma			
								L - EDTA		Z - other (specify)			
								Other:					
								Special Instructions/Note:					
MW-05		2-7-24		09:10		G		Water		N N X X X			
MW-06		2-7-24		10:21		G		Water		N N X X X			
MW-09		2-7-24		12:58		G		Water		N N X X X			
MW-10		2-7-24		11:27		G		Water		N N X X X			
MW-11		---		---		---		Water					
MW-12		---		---		---		Water					
2S/3S Duplicate		---		---		---		Water					
MW-16		---		---		---		Water					
MW-17		---		---		---		Water					
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements.							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2-8-24 09:02</u>		Company: <u>KPRG</u>		Received by: <u>[Signature]</u>		Date/Time: <u>2/8/24 0902</u>		Company: <u>KPRG</u>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.8-7.4</u>									
<input type="checkbox"/> Yes <input type="checkbox"/> No													

# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-1

**Login Number: 245763**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,1.6,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

## Client Sample ID: MW-11

Date Collected: 02/05/24 14:17

Date Received: 02/06/24 16:03

## Lab Sample ID: 500-245763-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:07
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 13:47
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:55
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:06
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 15:32
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:16
Total/NA	Analysis	SM 4500 SO4 E		2	754863	TR	EET CHI	02/20/24 12:08

## Client Sample ID: MW-12

Date Collected: 02/05/24 11:35

Date Received: 02/06/24 16:03

## Lab Sample ID: 500-245763-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:24
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:07
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:57
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:09
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 13:28
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:21
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:09

## Client Sample ID: 2S/3S Duplicate

Date Collected: 02/05/24 00:00

Date Received: 02/06/24 16:03

## Lab Sample ID: 500-245763-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:28
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:11
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:59
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:11
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 13:28
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:25
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:05

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-16**  
**Date Collected: 02/05/24 13:26**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:31
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:15
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:01
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:14
Total/NA	Analysis	SM 4500 Cl- E		5	753095	TR	EET CHI	02/07/24 13:31
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:30
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:08

**Client Sample ID: MW-17**  
**Date Collected: 02/05/24 12:23**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:42
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:19
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:03
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:16
Total/NA	Analysis	SM 4500 Cl- E		5	753095	TR	EET CHI	02/07/24 13:31
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:34
Total/NA	Analysis	SM 4500 SO4 E		10	754863	TR	EET CHI	02/20/24 12:33

**Client Sample ID: MW-05**  
**Date Collected: 02/07/24 09:10**  
**Date Received: 02/08/24 09:02**

**Lab Sample ID: 500-245763-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:23
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:00
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:15
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:09
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:47
Total/NA	Analysis	SM 4500 Cl- E		1	753572	TR	EET CHI	02/11/24 14:24
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:39
Total/NA	Analysis	SM 4500 SO4 E		20	754863	TR	EET CHI	02/20/24 12:33

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-06**  
**Date Collected: 02/07/24 10:21**  
**Date Received: 02/08/24 09:02**

**Lab Sample ID: 500-245763-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:27
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:04
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:26
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:12
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:49
Total/NA	Analysis	SM 4500 CI- E		1	753572	TR	EET CHI	02/11/24 14:24
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:44
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:33

**Client Sample ID: MW-09**  
**Date Collected: 02/07/24 12:58**  
**Date Received: 02/08/24 09:02**

**Lab Sample ID: 500-245763-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:38
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:08
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:30
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:14
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:52
Total/NA	Analysis	SM 4500 CI- E		5	753572	TR	EET CHI	02/11/24 14:42
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:58
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:05

**Client Sample ID: MW-10**  
**Date Collected: 02/07/24 11:27**  
**Date Received: 02/08/24 09:02**

**Lab Sample ID: 500-245763-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:42
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:11
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 <sup>1</sup>
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:34
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 <sup>1</sup>
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:16

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# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-245763-9**

**Date Collected: 02/07/24 11:27**

**Matrix: Water**

**Date Received: 02/08/24 09:02**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:54
Total/NA	Analysis	SM 4500 Cl- E		5	755087	TR	EET CHI	02/21/24 15:14
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 17:03
Total/NA	Analysis	SM 4500 SO4 E		10	754863	TR	EET CHI	02/20/24 14:02

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200





# ANALYTICAL REPORT

## PREPARED FOR

Attn: James Thorne  
Midwest Generation EME LLC  
1800 Channahon Road  
Joliet, Illinois 60436

Generated 3/11/2024 1:33:44 PM

## JOB DESCRIPTION

Will County CCR 2S/3S (RAD)

## JOB NUMBER

500-245763-2



# Eurofins Chicago

## Job Notes

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## Authorization



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Authorized for release by  
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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	16
QC Association . . . . .	17
QC Sample Results . . . . .	18
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	24
Chronicle . . . . .	27
Tracer Carrier Summary . . . . .	30

# Case Narrative

Client: Midwest Generation EME LLC  
Project: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Job ID: 500-245763-2**

**Eurofins Chicago**

## Job Narrative 500-245763-2

### Receipt

The samples were received on 2/6/2024 4:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4° C, 1.6° C and 2.4° C.

### RAD

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



# Sample Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245763-1	MW-11	Water	02/05/24 14:17	02/06/24 16:03
500-245763-2	MW-12	Water	02/05/24 11:35	02/06/24 16:03
500-245763-3	2S/3S Duplicate	Water	02/05/24 00:00	02/06/24 16:03
500-245763-4	MW-16	Water	02/05/24 13:26	02/06/24 16:03
500-245763-5	MW-17	Water	02/05/24 12:23	02/06/24 16:03
500-245763-6	MW-05	Water	02/07/24 09:10	02/08/24 09:02
500-245763-7	MW-06	Water	02/07/24 10:21	02/08/24 09:02
500-245763-8	MW-09	Water	02/07/24 12:58	02/08/24 09:02
500-245763-9	MW-10	Water	02/07/24 11:27	02/08/24 09:02

- 1
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- 13

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-245763-1**

Date Collected: 02/05/24 14:17

Matrix: Water

Date Received: 02/06/24 16:03

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.407		0.165	0.169	1.00	0.189	pCi/L	02/09/24 10:00	03/04/24 15:02	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	88.8		30 - 110					02/09/24 10:00	03/04/24 15:02	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.25		0.624	0.634	1.00	0.867	pCi/L	02/09/24 10:02	02/27/24 12:04	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	88.8		30 - 110					02/09/24 10:02	02/27/24 12:04	1
Y Carrier	72.1		30 - 110					02/09/24 10:02	02/27/24 12:04	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.65		0.645	0.656	5.00	0.867	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-12**  
**Date Collected: 02/05/24 11:35**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-2**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0229	U	0.0636	0.0636	1.00	0.119	pCi/L	02/09/24 10:00	03/04/24 15:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/09/24 10:00	03/04/24 15:02	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.525	U	0.385	0.388	1.00	0.585	pCi/L	02/09/24 10:02	02/27/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/09/24 10:02	02/27/24 12:04	1
Y Carrier	74.4		30 - 110					02/09/24 10:02	02/27/24 12:04	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.548	U	0.390	0.393	5.00	0.585	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: 2S/3S Duplicate**

**Lab Sample ID: 500-245763-3**

Date Collected: 02/05/24 00:00

Matrix: Water

Date Received: 02/06/24 16:03

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.395		0.123	0.128	1.00	0.110	pCi/L	02/09/24 10:00	03/06/24 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/09/24 10:00	03/06/24 09:55	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	U	0.409	0.412	1.00	0.626	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	70.3		30 - 110					02/09/24 10:02	02/27/24 12:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.926		0.427	0.431	5.00	0.626	pCi/L		03/11/24 12:33	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-16**  
**Date Collected: 02/05/24 13:26**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-4**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.342</b>		0.122	0.126	1.00	0.120	pCi/L	02/09/24 10:00	03/04/24 17:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/09/24 10:00	03/04/24 17:36	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.867</b>		0.398	0.406	1.00	0.529	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	79.3		30 - 110					02/09/24 10:02	02/27/24 12:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.21</b>		0.416	0.425	5.00	0.529	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-17**

**Lab Sample ID: 500-245763-5**

Date Collected: 02/05/24 12:23

Matrix: Water

Date Received: 02/06/24 16:03

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.262		0.125	0.128	1.00	0.157	pCi/L	02/09/24 10:00	03/04/24 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/09/24 10:00	03/04/24 17:37	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0291	U	0.287	0.287	1.00	0.536	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	76.3		30 - 110					02/09/24 10:02	02/27/24 12:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.291	U	0.313	0.314	5.00	0.536	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-05**

**Lab Sample ID: 500-245763-6**

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 09:02

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0226	U	0.0486	0.0486	1.00	0.0894	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/13/24 10:25	03/07/24 17:42	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.543	U	0.423	0.426	1.00	0.655	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	69.9		30 - 110					02/13/24 10:31	02/26/24 11:59	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.565	U	0.426	0.429	5.00	0.655	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-06**

**Lab Sample ID: 500-245763-7**

Date Collected: 02/07/24 10:21

Matrix: Water

Date Received: 02/08/24 09:02

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0568	U	0.0571	0.0573	1.00	0.0891	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/13/24 10:25	03/07/24 17:42	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.364	U	0.308	0.310	1.00	0.483	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	80.4		30 - 110					02/13/24 10:31	02/26/24 11:59	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.313	0.315	5.00	0.483	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-09**

**Lab Sample ID: 500-245763-8**

Date Collected: 02/07/24 12:58

Matrix: Water

Date Received: 02/08/24 09:02

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.105</b>		0.0653	0.0660	1.00	0.0805	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/13/24 10:25	03/07/24 17:42	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.483</b>		0.318	0.322	1.00	0.468	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	84.1		30 - 110					02/13/24 10:31	02/26/24 11:59	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.588</b>		0.325	0.329	5.00	0.468	pCi/L		03/08/24 16:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-10**

**Lab Sample ID: 500-245763-9**

Date Collected: 02/07/24 11:27

Matrix: Water

Date Received: 02/08/24 09:02

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.278		0.0980	0.101	1.00	0.0824	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/13/24 10:25	03/07/24 17:42	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.25		0.442	0.457	1.00	0.546	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	86.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.52		0.453	0.468	5.00	0.546	pCi/L		03/08/24 16:34	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

## Rad

### Prep Batch: 647502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	PrecSep-21	
500-245763-2	MW-12	Total/NA	Water	PrecSep-21	
500-245763-3	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-245763-4	MW-16	Total/NA	Water	PrecSep-21	
500-245763-5	MW-17	Total/NA	Water	PrecSep-21	
MB 160-647502/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647502/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 647504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	PrecSep_0	
500-245763-2	MW-12	Total/NA	Water	PrecSep_0	
500-245763-3	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-245763-4	MW-16	Total/NA	Water	PrecSep_0	
500-245763-5	MW-17	Total/NA	Water	PrecSep_0	
MB 160-647504/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647504/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 647941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	PrecSep-21	
500-245763-7	MW-06	Total/NA	Water	PrecSep-21	
500-245763-8	MW-09	Total/NA	Water	PrecSep-21	
500-245763-9	MW-10	Total/NA	Water	PrecSep-21	
MB 160-647941/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647941/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 647942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	PrecSep_0	
500-245763-7	MW-06	Total/NA	Water	PrecSep_0	
500-245763-8	MW-09	Total/NA	Water	PrecSep_0	
500-245763-9	MW-10	Total/NA	Water	PrecSep_0	
MB 160-647942/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647942/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

## Method: 903.0 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-647502/1-A**  
**Matrix: Water**  
**Analysis Batch: 650942**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 647502**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01998	U	0.0467	0.0468	1.00	0.0887	pCi/L	02/09/24 10:00	03/04/24 13:10	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110				02/09/24 10:00		03/04/24 13:10	1

**Lab Sample ID: LCS 160-647502/2-A**  
**Matrix: Water**  
**Analysis Batch: 650947**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 647502**

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	10.79	1.13	1.00	0.128	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	98.0		30 - 110							

**Lab Sample ID: MB 160-647941/1-A**  
**Matrix: Water**  
**Analysis Batch: 651424**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 647941**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02484	U	0.0473	0.0473	1.00	0.0855	pCi/L	02/13/24 10:25	03/07/24 16:13	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110				02/13/24 10:25		03/07/24 16:13	1

**Lab Sample ID: LCS 160-647941/2-A**  
**Matrix: Water**  
**Analysis Batch: 651424**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 647941**

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	9.806	1.03	1.00	0.137	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	98.3		30 - 110							

## Method: 904.0 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-647504/1-A**  
**Matrix: Water**  
**Analysis Batch: 650045**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 647504**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.09967	U	0.294	0.294	1.00	0.522	pCi/L	02/09/24 10:02	02/27/24 12:03	1

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	97.0		30 - 110	02/09/24 10:02	02/27/24 12:03	1
Y Carrier	83.7		30 - 110	02/09/24 10:02	02/27/24 12:03	1

Lab Sample ID: LCS 160-647504/2-A  
 Matrix: Water  
 Analysis Batch: 650045

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 647504

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	98.0		30 - 110
Y Carrier	84.1		30 - 110

Lab Sample ID: MB 160-647942/1-A  
 Matrix: Water  
 Analysis Batch: 649794

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 647942

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	97.3		30 - 110	02/13/24 10:31	02/26/24 11:48	1
Y Carrier	84.1		30 - 110	02/13/24 10:31	02/26/24 11:48	1

Lab Sample ID: LCS 160-647942/2-A  
 Matrix: Water  
 Analysis Batch: 649794

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 647942

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

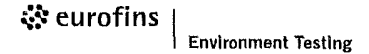
Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	98.3		30 - 110
Y Carrier	85.6		30 - 110



**Eurofins Chicago**

2417 Bond Street  
 University Park, IL 60484  
 Phone 708-534-5200 Fax: 708-534-5211

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <b>IAN JOHN HOWISON</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-120314-48726 1			
Client Contact: Mr Tim Stohner		Phone: <b>630 290 6850</b>		E-Mail: Diana Mockler@et.eurofins.com		State of Origin		Page: Page 1 of 1			
Company: KPRG and Associates, Inc		PWSID:		<b>Analysis Requested</b>						Job #: <b>500-245763</b>	
Address: 414 Plaza Drive Suite 106 City: Westmont State, Zip: IL, 60559 Phone: 500-245763 COC		Due Date Requested:		TAT Requested (days):		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 4502116506		WO #:	
Email: tims@kprginc.com		Project #: 50011609 <b>CCR</b>		SSOW#:		Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring		Project #: 50011609 <b>CCR</b>		SSOW#:	
Site: Illinois		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, ST=Tissue, A=Air)		Total Number of Containers	
<b>Sample Identification</b>		Preservation Code		Field Filtered Sample (Yes or No)		Performs MS/MSD (Yes or No)		903.0, 904.0		6010C, 6020A, 7470A	
								2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E			
MW-05		2-7-24		09:10		G		Water		N N X X X	
MW-06		2-7-24		10:21		G		Water		N N X X X	
MW-09		2-7-24		12:58		G		Water		N N X X X	
MW-10		2-7-24		11:27		G		Water		N N X X X	
MW-11		---		---		---		Water			
MW-12		---		---		---		Water			
2S/3S Duplicate		---		---		---		Water			
MW-16		---		---		---		Water			
MW-17		---		---		---		Water			
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements.					
Empty Kit Relinquished by:				Date		Time		Method of Shipment:			
Relinquished by: <i>[Signature]</i>				Date/Time: 2-8-24 09:02		Company: KPRG		Received by: <i>[Signature]</i>		Date/Time: 2/8/24 09:02	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <b>0.8 → 6.4</b>							



# Chain of Custody Record



Environment Testing



<b>Client Information (Sub Contract Lab)</b>		Lab PM Mockler, Diana J	Carrier Tracking No(s) 500-184533.1																																																																																																																			
Client Contact Shipping/Receiving		E-Mail Diana.Mockler@et.eurofins.com	Page Page 1 of 1																																																																																																																			
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Illinois	Job # 500-245763-2																																																																																																																			
Address 13715 Rider Trail North, Earth City		Due Date Requested: 3/11/2024	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NazSO3 R - Naz2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)																																																																																																																			
City Earth City		TAT Requested (days):	<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=swab, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Form M/MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 Standard Target List</th> <th>904.0/PreSep_0 Standard Target List</th> <th>Ra226Ra228 GPC</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-11 (500-245763-1)</td> <td>2/5/24</td> <td>14:17 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>MW-12 (500-245763-2)</td> <td>2/5/24</td> <td>11:35 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>2S/3S Duplicate (500-245763-3)</td> <td>2/5/24</td> <td>13:26 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>MW-16 (500-245763-4)</td> <td>2/5/24</td> <td>12:23 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>MW-17 (500-245763-5)</td> <td>2/5/24</td> <td>12:23 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swab, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form M/MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228 GPC	Total Number of Containers	Special Instructions/Note:	MW-11 (500-245763-1)	2/5/24	14:17 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	MW-12 (500-245763-2)	2/5/24	11:35 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	2S/3S Duplicate (500-245763-3)	2/5/24	13:26 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	MW-16 (500-245763-4)	2/5/24	12:23 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	MW-17 (500-245763-5)	2/5/24	12:23 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time		Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swab, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form M/MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228 GPC	Total Number of Containers	Special Instructions/Note:																																																																																																										
MW-11 (500-245763-1)	2/5/24	14:17 Central		Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																																																																											
MW-12 (500-245763-2)	2/5/24	11:35 Central		Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																																																																											
2S/3S Duplicate (500-245763-3)	2/5/24	13:26 Central		Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																																																																											
MW-16 (500-245763-4)	2/5/24	12:23 Central		Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																																																																											
MW-17 (500-245763-5)	2/5/24	12:23 Central		Water	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																																																																											
Project Name Will County CCR 2S/3S (RAD)		Project # 50011609																																																																																																																				
Site NRG Midwest Generation Will County		SSOW#																																																																																																																				

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

<b>Possible Hazard Identification</b>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by		Time: Method of Shipment	
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	Date/Time	Received by	Date/Time
Relinquished by	Date/Time	Received by	Date/Time
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	





# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-2

**Login Number: 245763**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4,1.6,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-2

**Login Number: 245763**

**List Number: 2**

**Creator: Thornley, Richard W**

**List Source: Eurofins St. Louis**

**List Creation: 02/08/24 02:33 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-2

**Login Number: 245763**

**List Number: 3**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 02/12/24 08:53 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-11**  
**Date Collected: 02/05/24 14:17**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650947	SCB	EET SL	03/04/24 15:02
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

**Client Sample ID: MW-12**  
**Date Collected: 02/05/24 11:35**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650947	SCB	EET SL	03/04/24 15:02
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

**Client Sample ID: 2S/3S Duplicate**  
**Date Collected: 02/05/24 00:00**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	651294	SWS	EET SL	03/06/24 09:55
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651940	CAH	EET SL	03/11/24 12:33

**Client Sample ID: MW-16**  
**Date Collected: 02/05/24 13:26**  
**Date Received: 02/06/24 16:03**

**Lab Sample ID: 500-245763-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650944	SCB	EET SL	03/04/24 17:36
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

## Client Sample ID: MW-17

Date Collected: 02/05/24 12:23

Date Received: 02/06/24 16:03

## Lab Sample ID: 500-245763-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650944	SCB	EET SL	03/04/24 17:37
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

## Client Sample ID: MW-05

Date Collected: 02/07/24 09:10

Date Received: 02/08/24 09:02

## Lab Sample ID: 500-245763-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

## Client Sample ID: MW-06

Date Collected: 02/07/24 10:21

Date Received: 02/08/24 09:02

## Lab Sample ID: 500-245763-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

## Client Sample ID: MW-09

Date Collected: 02/07/24 12:58

Date Received: 02/08/24 09:02

## Lab Sample ID: 500-245763-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

**Client Sample ID: MW-10**

**Lab Sample ID: 500-245763-9**

**Date Collected: 02/07/24 11:27**

**Matrix: Water**

**Date Received: 02/08/24 09:02**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

## Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-245763-1	MW-11	88.8
500-245763-2	MW-12	93.0
500-245763-3	2S/3S Duplicate	88.5
500-245763-4	MW-16	92.5
500-245763-5	MW-17	92.3
500-245763-6	MW-05	93.0
500-245763-7	MW-06	105
500-245763-8	MW-09	97.8
500-245763-9	MW-10	87.0
LCS 160-647502/2-A	Lab Control Sample	98.0
LCS 160-647941/2-A	Lab Control Sample	98.3
MB 160-647502/1-A	Method Blank	97.0
MB 160-647941/1-A	Method Blank	97.3

#### Tracer/Carrier Legend

Ba = Ba Carrier

## Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-245763-1	MW-11	88.8	72.1
500-245763-2	MW-12	93.0	74.4
500-245763-3	2S/3S Duplicate	88.5	70.3
500-245763-4	MW-16	92.5	79.3
500-245763-5	MW-17	92.3	76.3
500-245763-6	MW-05	93.0	69.9
500-245763-7	MW-06	105	80.4
500-245763-8	MW-09	97.8	84.1
500-245763-9	MW-10	87.0	86.0
LCS 160-647504/2-A	Lab Control Sample	98.0	84.1
LCS 160-647942/2-A	Lab Control Sample	98.3	85.6
MB 160-647504/1-A	Method Blank	97.0	83.7
MB 160-647942/1-A	Method Blank	97.3	84.1

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-7-24
Sample Name	MW-05	Start Time	08:55	
Condition of Well	GOOD			
Water Level	9.92	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.5 GGS	W L at Sample Time	9.92	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CCA CLEAR FILTERED	
Sample Analysis	CCA + CCR	Sample Time	09:10	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
08:58	9.94	7.18	8.7	1.399	7.72	69.6	0.25
09:01	9.96	6.71	10.4	1.977	3.60	78.3	0.33
09:04	9.95	6.64	10.2	2.196	2.25	79.2	0.68
09:07	9.93	6.63	10.2	2.281	1.51	78.8	0.61
09:10	9.92	6.62	10.1	2.289	1.36	78.6	0.82
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-7-24
Sample Name	MW-06	Start Time	09:57	
Condition of Well	GOOD			
Water Level	11.68	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS TRACE ODORLESS TURB	
Volume Removed	3.25 QRS	W L at Sample Time	11.68	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CCA CLEAR FILTERED	
Sample Analysis	CCA + CCR	Sample Time	10:21	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:00	11.68	7.62	7.9	1.039	6.50	62.7	4.18
10:03	11.69	7.40	8.5	1.063	4.40	62.1	3.0
10:06	11.68	7.36	9.0	1.068	3.22	60.0	20.0
10:09	11.68	7.33	9.6	1.048	2.68	51.4	24.9
10:12	11.68	7.36	10.1	0.990	2.94	26.2	14.0
10:15	11.68	7.39	10.3	0.961	2.73	-3.9	7.2
10:18	11.68	7.39	10.2	0.956	2.22	-16.8	7.0
10:21	11.68	7.39	10.2	0.953	2.10	-19.8	5.24
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-7-24
Sample Name	MW-09	Start Time	12:40	
Condition of Well	Good			
Water Level	11.10	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	200 to 12 KEPS OR LESS	
Volume Removed	3.0 QTS.	W L at Sample Time	11.38	
Method of Sample	Low-Flow	Sample Characteristics	APPEAR CCA CLEAR FILTERED.	
Sample Analysis	CCA + CCR + CCR 11/15 25/35	Sample Time	12:58	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:43	11.26	8.24	9.5	1.342	5.59	-124.7	9.92
12:46	11.35	8.63	10.8	1.332	3.81	-109.2	14.2
12:49	11.39	8.74	11.2	1.332	3.30	-87.5	11.0
12:52	11.37	8.85	11.2	1.330	2.35	-80.1	10.4
12:55	11.39	8.88	11.4	1.328	1.79	-76.8	9.2
12:58	11.38	8.89	11.4	1.329	1.74	-76.3	9.3
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates





PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-7-24
Sample Name	MW-10	Start Time	11:03	
Condition of Well	GOOD			
Water Level	10.19	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	LOW FLOW TAKE ODORLESS TURB	
Volume Removed	3.25 Gals.	W L at Sample Time	10.20	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CCA CLEAR FILTERED	
Sample Analysis	CCA + CCR	Sample Time	11:27	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:06	10.28	7.24	7.9	1.393	7.44	-54.9	6.74
11:09	10.36	6.94	10.1	1.547	3.63	-65.9	43.7
11:12	10.32	6.93	10.5	1.583	2.06	-68.6	93.9
11:15	10.36	6.94	10.4	1.598	1.18	-72.5	98.2
11:18	10.29	6.94	10.2	1.595	0.90	-71.0	94.1
11:21	10.28	6.94	10.3	1.595	0.90	-69.9	84.7
11:24	10.24	6.94	10.2	1.594	0.89	-69.1	80.09
11:27	10.20	6.94	10.2	1.595	0.88	-68.1	75.44
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-5-24
Sample Name	MW-11	Start Time	14:02	
Condition of Well	GOOD			
Water Level	9.49	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	TAS TINT → CLEAR ODORLESS	
Volume Removed	2.75 QTS.	W L at Sample Time	9.81	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR TRACE TURB	
Sample Analysis	CCR	Sample Time	14:17	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:05	9.81	7.32	11.9	1.289	4.42	-107.1	58.7
14:08	9.77	7.29	12.1	1.291	2.07	-102.7	154.2
14:11	9.81	7.22	12.1	1.301	1.36	-109.6	63.1
14:14	9.83	7.16	12.0	1.308	0.94	-109.9	50.1
14:17	9.81	7.12	12.0	1.313	0.80	-106.2	39.2
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-5-24
Sample Name	MW-12	Start Time	11:20	
Condition of Well	Good			
Water Level	9.99	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.5 QTS	W L at Sample Time	10.01	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR	Sample Time	11:35	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:23	10.01	7.21	10.8	1.809	5.01	-60.1	2.24
11:26	10.03	7.09	11.8	1.750	1.42	-2.2	3.96
11:29	10.02	7.08	11.5	1.732	0.90	22.7	3.19
11:32	10.01	7.07	11.3	1.726	0.76	32.6	2.52
11:35	10.01	7.07	11.4	1.723	0.77	35.5	2.96
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

