

DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

Regulated Unit(s): Pond 1N (IEPA ID No. W1978100011-01)
 Pond 1S (IEPA ID No. W1978100011-02)

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 2nd quarter 2022 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. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements.

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 for Ponds 1N and 1S dated March 31, 2022. 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 1N and 1S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-01	2/23/2021	0.64
	4/10/2021	5.81
	4/25/2021	7.69
	5/3/2021	1.74
	5/24/2021	1.83
	6/7/2021	2.32
	6/25/2021	3.50
	7/12/2021	4.18
	8/2/2021	2.87
	8/23/2021	1.17
	9/24/2021	3.25
	11/19/2021	16.82
2/21/2022	3.04	
6/15/2022	10.56	
MW-02	2/25/2021	8.84
	4/10/2021	9.17
	4/25/2021	12.03
	5/3/2021	2.42
	5/24/2021	2.7
	6/7/2021	1.82
	6/28/2021	3.15
	7/12/2021	4.23
	8/2/2021	3.11
	8/23/2021	1.37
	9/24/2021	4.63
	11/19/2021	2.1
	2/21/2022	0.45
6/15/2022	2.69	
MW-03	3/1/2021	0.0
	4/10/2021	1.45
	4/25/2021	3.41
	5/3/2021	1.61
	5/24/2021	2.06
	6/8/2021	2.34
	6/28/2021	2.69
	7/12/2021	4.07
	8/2/2021	1.98
	8/24/2021	5.1
	9/24/2021	4.18
	11/19/2021	0.47
2/24/2022	-1.1	
6/16/2022	1.66	
MW-04	2/22/2021	9.87
	4/10/2021	42.2
	4/25/2021	7.41
	5/3/2021	4.2
	5/24/2021	4.45
	6/8/2021	2.8
	6/28/2021	12.93
	7/12/2021	3.93
	8/2/2021	3.75
	8/24/2021	10.1
	9/24/2021	5.74
	11/19/2021	15.15
	2/24/2022	2.04
6/16/2022	3.13	
MW-07	3/1/2021	6.11
	4/10/2021	6.19
	4/25/2021	6.98
	5/4/2021	37.65
	5/24/2021	2.54
	6/7/2021	6.21
	6/25/2021	6.02
	7/12/2021	5.13
	8/2/2021	2.45
	8/25/2021	7.7
	9/24/2021	4.13
	11/19/2021	7.35
	2/22/2022	-0.02
6/15/2022	5.58	

Table 2. Groundwater Turbidity - Ponds 1N and 1S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-08	3/1/2021	2.3
	4/10/2021	270.98
	4/25/2021	26.73
	5/4/2021	6.6
	5/28/2021	6.51
	6/7/2021	4.58
	6/28/2021	5.67
	7/12/2021	6.71
	8/2/2021	14.15
	8/25/2021	8.9
	9/24/2021	7.21
	11/19/2021	2.34
2/24/2022	40.05	
6/15/2022	5.01	
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
MW-13	5/4/2021	20.6
	5/25/2021	9.8
	6/7/2021	6.49
	6/28/2021	8.25
	7/12/2021	5.89
	8/2/2021	2.91
	8/26/2021	12.9
	9/24/2021	9.13
	11/23/2021	17.83
2/23/2022	34.33	
6/14/2022	81.91	
MW-14	5/4/2021	6.88
	5/25/2021	3.5
	6/7/2021	2.55
	6/28/2021	7.44
	7/12/2021	4.89
	8/2/2021	9.8
	8/25/2021	11.7
	9/24/2021	6.87
	11/19/2021	5.19
2/23/2022	45.11	
6/14/2022	3.98	
MW-15	5/4/2021	28.65
	5/25/2021	8.89
	6/7/2021	8.82
	6/28/2021	6.48
	7/12/2021	8.52
	8/2/2021	22.71
	8/25/2021	12.4
	9/24/2021	11.44
	11/19/2021	10.83
2/22/2022	17.05	
6/14/2022	11.83	

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-218112-1
Client Project/Site: Will County CCR

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
7/15/2022 8:08:30 AM

Diana Mockler, Project Manager I
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

Job ID: 500-218112-1

Job ID: 500-218112-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-218112-1

Comments

No additional comments.

Receipt

The samples were received on 6/15/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.9° C, 1.2° C, 1.7° C, 4.0° C, 4.1° C and 4.4° C.

Metals

Method 6020A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: MW-13 (500-218112-5).

Method 6020A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: MW-13 (500-218112-5).

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

General Chemistry

Method SM 4500 Cl- E: The CCV bracketing the following samples recovered above the control limits for Chloride. The CCVH recovered within acceptance limits. The samples were reanalyzed outside of holding time. The re-analysis confirmed the original results. The original results have been qualified and reported.

MW-14 (500-218112-6), MW-15 (500-218112-7) and Duplicate-2 (500-218112-9)

Method SM 4500 Cl- E: The CCV recovered above the upper control limit for Chloride. The CCVH recovered within control limits. These samples recovered at a level greater than the CCVH and have been qualified and reported.

MW-12 (500-218112-4), MW-13 (500-218112-5) and Duplicate-1 (500-218112-8)

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

Method Summary

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

Job ID: 500-218112-1

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

TAL 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

Job ID: 500-218112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-218112-1	MW-6	Water	06/14/22 14:25	06/15/22 10:30
500-218112-2	MW-10	Water	06/14/22 13:05	06/15/22 10:30
500-218112-3	MW-11	Water	06/13/22 15:44	06/15/22 10:30
500-218112-4	MW-12	Water	06/13/22 14:35	06/15/22 10:30
500-218112-5	MW-13	Water	06/14/22 11:35	06/15/22 10:30
500-218112-6	MW-14	Water	06/14/22 10:25	06/15/22 10:30
500-218112-7	MW-15	Water	06/14/22 09:10	06/15/22 10:30
500-218112-8	Duplicate-1	Water	06/13/22 00:00	06/15/22 10:30
500-218112-9	Duplicate-2	Water	06/13/22 00:00	06/15/22 10:30
500-218112-10	MW-1	Water	06/15/22 08:35	06/16/22 13:50
500-218112-11	MW-2	Water	06/15/22 09:55	06/16/22 13:50
500-218112-12	MW-3	Water	06/16/22 11:40	06/16/22 13:50
500-218112-13	MW-4	Water	06/16/22 10:15	06/16/22 13:50
500-218112-14	MW-5	Water	06/16/22 09:10	06/16/22 13:50
500-218112-15	MW-7	Water	06/15/22 13:55	06/16/22 13:50
500-218112-16	MW-8	Water	06/15/22 12:30	06/16/22 13:50
500-218112-17	MW-9	Water	06/15/22 11:05	06/16/22 13:50

- 1
- 2
- 3
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- 5
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- 10
- 11
- 12

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 17:59	1
Arsenic	0.0018		0.0010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Barium	0.082		0.0025		mg/L		06/23/22 15:54	06/24/22 17:59	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Boron	2.5		0.50		mg/L		06/23/22 15:54	06/27/22 12:38	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Calcium	110		0.20		mg/L		06/23/22 15:54	06/24/22 17:59	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Lithium	0.014		0.010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Molybdenum	0.018		0.0050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 17:59	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 17:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	610		10		mg/L			06/20/22 02:57	1
Chloride	22		2.0		mg/L			06/16/22 11:15	1
Fluoride	0.35		0.10		mg/L			06/25/22 17:04	1
Sulfate	210		50		mg/L			06/16/22 12:39	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-10
Date Collected: 06/14/22 13:05
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-2
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:02	1
Arsenic	0.0080		0.0010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Barium	0.081		0.0025		mg/L		06/23/22 15:54	06/24/22 18:02	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Boron	2.9		0.50		mg/L		06/23/22 15:54	06/27/22 12:42	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Calcium	100		0.20		mg/L		06/23/22 15:54	06/24/22 18:02	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Lithium	0.015		0.010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Molybdenum	0.12		0.0050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:02	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	790		10		mg/L			06/20/22 02:59	1
Chloride	140		10		mg/L			06/16/22 11:15	5
Fluoride	0.86		0.10		mg/L			06/25/22 17:07	1
Sulfate	280		50		mg/L			06/16/22 12:38	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-11
Date Collected: 06/13/22 15:44
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-3
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:05	1
Arsenic	0.0088		0.0010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Barium	0.17		0.0025		mg/L		06/23/22 15:54	06/24/22 18:05	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Boron	2.8		0.50		mg/L		06/23/22 15:54	06/27/22 12:45	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Calcium	120		0.20		mg/L		06/23/22 15:54	06/24/22 18:05	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Cobalt	0.0022		0.0010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Lead	0.0018		0.00050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Lithium	0.011		0.010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Molybdenum	0.058		0.0050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:05	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			06/20/22 03:02	1
Chloride	140		10		mg/L			06/16/22 11:16	5
Fluoride	0.40		0.10		mg/L			06/25/22 17:10	1
Sulfate	97		25		mg/L			06/16/22 12:39	5

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-12

Lab Sample ID: 500-218112-4

Date Collected: 06/13/22 14:35

Matrix: Water

Date Received: 06/15/22 10:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:09	1
Arsenic	0.0015		0.0010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Barium	0.15		0.0025		mg/L		06/23/22 15:54	06/24/22 18:09	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Boron	1.9		0.25		mg/L		06/23/22 15:54	06/27/22 12:48	5
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Calcium	160		0.20		mg/L		06/23/22 15:54	06/24/22 18:09	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Lithium	0.012		0.010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Molybdenum	0.024		0.0050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Selenium	0.0045		0.0025		mg/L		06/23/22 15:54	06/24/22 18:09	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/20/22 03:04	1
Chloride	210	^+	10		mg/L			06/16/22 11:54	5
Fluoride	0.45		0.10		mg/L			06/25/22 17:14	1
Sulfate	170		25		mg/L			06/16/22 12:40	5

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-13

Lab Sample ID: 500-218112-5

Date Collected: 06/14/22 11:35

Matrix: Water

Date Received: 06/15/22 10:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:33	1
Arsenic	0.046		0.0010		mg/L		06/23/22 15:54	06/24/22 18:33	1
Barium	0.43		0.0025		mg/L		06/23/22 15:54	06/24/22 18:33	1
Beryllium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/27/22 13:12	5
Boron	2.1		0.25		mg/L		06/23/22 15:54	06/27/22 13:12	5
Cadmium	0.0022		0.00050		mg/L		06/23/22 15:54	06/24/22 18:33	1
Calcium	500		1.0		mg/L		06/23/22 15:54	06/27/22 13:12	5
Chromium	0.077		0.025		mg/L		06/23/22 15:54	06/27/22 13:12	5
Cobalt	0.041		0.0050		mg/L		06/23/22 15:54	06/27/22 13:12	5
Lead	0.063		0.00050		mg/L		06/23/22 15:54	06/24/22 18:33	1
Lithium	<0.050		0.050		mg/L		06/23/22 15:54	06/29/22 14:01	5
Molybdenum	0.026		0.0050		mg/L		06/23/22 15:54	06/24/22 18:33	1
Selenium	0.0097		0.0025		mg/L		06/23/22 15:54	06/24/22 18:33	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			06/20/22 03:07	1
Chloride	200	^+	10		mg/L			06/16/22 11:54	5
Fluoride	0.37		0.10		mg/L			06/25/22 17:17	1
Sulfate	210		25		mg/L			06/16/22 12:41	5

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:36	1
Arsenic	0.0021		0.0010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Barium	0.083		0.0025		mg/L		06/23/22 15:54	06/24/22 18:36	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Boron	5.3		1.0		mg/L		06/23/22 15:54	06/27/22 13:19	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Calcium	160		0.20		mg/L		06/23/22 15:54	06/24/22 18:36	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Lithium	0.048		0.010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Molybdenum	0.050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:36	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/20/22 03:10	1
Chloride	110	^+	10		mg/L			06/16/22 11:55	5
Fluoride	0.47		0.10		mg/L			06/25/22 17:20	1
Sulfate	490		50		mg/L			06/16/22 12:41	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:40	1
Arsenic	0.0027		0.0010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Barium	0.10		0.0025		mg/L		06/23/22 15:54	06/24/22 18:40	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Boron	3.7		0.50		mg/L		06/23/22 15:54	06/27/22 13:24	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Calcium	230		0.20		mg/L		06/23/22 15:54	06/24/22 18:40	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Cobalt	0.0012		0.0010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Lithium	0.021		0.010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Molybdenum	0.027		0.0050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:40	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			06/20/22 03:12	1
Chloride	130	^+	10		mg/L			06/16/22 11:55	5
Fluoride	0.45		0.10		mg/L			06/25/22 17:23	1
Sulfate	750		100		mg/L			06/16/22 12:42	20

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: Duplicate-1
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-8
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:43	1
Arsenic	0.0015		0.0010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Barium	0.15		0.0025		mg/L		06/23/22 15:54	06/24/22 18:43	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Boron	1.9		0.25		mg/L		06/23/22 15:54	06/27/22 13:27	5
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Calcium	170		0.20		mg/L		06/23/22 15:54	06/24/22 18:43	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Lithium	0.013		0.010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Molybdenum	0.025		0.0050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Selenium	0.0063		0.0025		mg/L		06/23/22 15:54	06/24/22 18:43	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/20/22 03:15	1
Chloride	210	^+	10		mg/L			06/16/22 11:55	5
Fluoride	0.44		0.10		mg/L			06/25/22 17:26	1
Sulfate	150		100		mg/L			06/16/22 12:42	20

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: Duplicate-2

Lab Sample ID: 500-218112-9

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:47	1
Arsenic	0.0024		0.0010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Barium	0.12		0.0025		mg/L		06/23/22 15:54	06/24/22 18:47	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Boron	4.1		0.50		mg/L		06/23/22 15:54	06/27/22 13:31	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Calcium	230		0.20		mg/L		06/23/22 15:54	06/24/22 18:47	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Cobalt	0.0011		0.0010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Lithium	0.022		0.010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Molybdenum	0.027		0.0050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:47	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			06/20/22 03:17	1
Chloride	130	^+	10		mg/L			06/16/22 11:56	5
Fluoride	0.44		0.10		mg/L			06/25/22 17:29	1
Sulfate	750		100		mg/L			06/16/22 12:42	20

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:50	1
Arsenic	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Barium	0.090		0.0025		mg/L		06/23/22 15:54	06/24/22 18:50	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Boron	2.6		0.50		mg/L		06/23/22 15:54	06/27/22 13:34	10
Cadmium	0.00054		0.00050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Calcium	180		0.20		mg/L		06/23/22 15:54	06/24/22 18:50	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Lithium	0.033		0.010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Molybdenum	0.015		0.0050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Selenium	0.0087		0.0025		mg/L		06/23/22 15:54	06/24/22 18:50	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:20	1
Chloride	33		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.61		0.10		mg/L			06/25/22 17:32	1
Sulfate	350		50		mg/L			06/17/22 15:06	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:54	1
Arsenic	0.010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Barium	0.058		0.0025		mg/L		06/23/22 15:54	06/24/22 18:54	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Boron	5.3		1.0		mg/L		06/23/22 15:54	06/27/22 13:45	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Calcium	91		0.20		mg/L		06/23/22 15:54	06/24/22 18:54	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Lithium	0.044		0.010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Molybdenum	0.073		0.0050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:54	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:22	1
Chloride	30		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.39		0.10		mg/L			06/25/22 17:45	1
Sulfate	460		50		mg/L			06/17/22 15:06	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 18:57	1
Arsenic	0.0014		0.0010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Barium	0.10		0.0025		mg/L		06/23/22 15:54	06/24/22 18:57	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Boron	4.0		0.50		mg/L		06/23/22 15:54	06/27/22 13:48	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Calcium	140		0.20		mg/L		06/23/22 15:54	06/24/22 18:57	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Lithium	0.045		0.010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Molybdenum	0.022		0.0050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:57	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			06/20/22 03:25	1
Chloride	18		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.31		0.10		mg/L			06/25/22 17:49	1
Sulfate	300		50		mg/L			06/17/22 15:07	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 19:00	1
Arsenic	0.0030		0.0010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Barium	0.045		0.0025		mg/L		06/23/22 15:54	06/24/22 19:00	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Boron	5.5		1.0		mg/L		06/23/22 15:54	06/27/22 13:51	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Calcium	310		4.0		mg/L		06/23/22 15:54	06/27/22 13:51	20
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Cobalt	0.0021		0.0010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Lithium	0.023		0.010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Molybdenum	0.026		0.0050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Selenium	0.0044		0.0025		mg/L		06/23/22 15:54	06/24/22 19:00	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2200		10		mg/L			06/20/22 03:28	1
Chloride	22		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.37		0.10		mg/L			06/25/22 17:52	1
Sulfate	990		250		mg/L			06/17/22 15:38	50

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-5
Date Collected: 06/16/22 09:10
Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-14
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 19:04	1
Arsenic	0.0037		0.0010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Barium	0.055		0.0025		mg/L		06/23/22 15:54	06/24/22 19:04	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Boron	5.1		1.0		mg/L		06/23/22 15:54	06/27/22 13:55	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Calcium	120		0.20		mg/L		06/23/22 15:54	06/24/22 19:04	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Lithium	0.011		0.010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Molybdenum	0.064		0.0050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Selenium	0.0080		0.0025		mg/L		06/23/22 15:54	06/24/22 19:04	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:30	1
Chloride	41		2.0		mg/L			06/20/22 13:40	1
Fluoride	0.34		0.10		mg/L			06/25/22 17:55	1
Sulfate	510		100		mg/L			06/17/22 15:39	20

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 19:14	1
Arsenic	0.0045		0.0010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Barium	0.075		0.0025		mg/L		06/23/22 15:54	06/24/22 19:14	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Boron	4.4		1.0		mg/L		06/23/22 15:54	06/27/22 13:58	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Calcium	150		0.20		mg/L		06/23/22 15:54	06/24/22 19:14	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Lithium	0.023		0.010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Molybdenum	0.056		0.0050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 19:14	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:33	1
Chloride	120		10		mg/L			06/20/22 13:58	5
Fluoride	0.68		0.10		mg/L			06/25/22 17:59	1
Sulfate	520		100		mg/L			06/17/22 15:39	20

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 19:18	1
Arsenic	0.0048		0.0010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Barium	0.075		0.0025		mg/L		06/23/22 15:54	06/24/22 19:18	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Boron	2.9		0.50		mg/L		06/23/22 15:54	06/27/22 14:02	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Calcium	150		0.20		mg/L		06/23/22 15:54	06/24/22 19:18	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Cobalt	0.0016		0.0010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Lithium	0.014		0.010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Molybdenum	0.064		0.0050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 19:18	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			06/20/22 03:35	1
Chloride	170		10		mg/L			06/20/22 13:59	5
Fluoride	0.59		0.10		mg/L			06/25/22 18:02	1
Sulfate	480		50		mg/L			06/17/22 15:39	10

Client Sample Results

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

Job ID: 500-218112-1

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 19:21	1
Arsenic	0.0071		0.0010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Barium	0.036		0.0025		mg/L		06/23/22 15:54	06/24/22 19:21	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Boron	1.9		0.25		mg/L		06/23/22 15:54	06/27/22 14:05	5
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Calcium	43		0.20		mg/L		06/23/22 15:54	06/24/22 19:21	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Lithium	<0.010		0.010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Molybdenum	0.057		0.0050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 19:21	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			06/20/22 03:38	1
Chloride	230		10		mg/L			06/20/22 13:59	5
Fluoride	0.48		0.10		mg/L			06/25/22 18:05	1
Sulfate	180		50		mg/L			06/17/22 15:40	10

Definitions/Glossary

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

Job ID: 500-218112-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) 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.

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

Job ID: 500-218112-1

Metals

Prep Batch: 662549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	7470A	
500-218112-2	MW-10	Total/NA	Water	7470A	
500-218112-3	MW-11	Total/NA	Water	7470A	
500-218112-4	MW-12	Total/NA	Water	7470A	
500-218112-5	MW-13	Total/NA	Water	7470A	
500-218112-6	MW-14	Total/NA	Water	7470A	
500-218112-7	MW-15	Total/NA	Water	7470A	
500-218112-8	Duplicate-1	Total/NA	Water	7470A	
500-218112-9	Duplicate-2	Total/NA	Water	7470A	
500-218112-10	MW-1	Total/NA	Water	7470A	
500-218112-11	MW-2	Total/NA	Water	7470A	
500-218112-12	MW-3	Total/NA	Water	7470A	
500-218112-13	MW-4	Total/NA	Water	7470A	
500-218112-14	MW-5	Total/NA	Water	7470A	
500-218112-15	MW-7	Total/NA	Water	7470A	
500-218112-16	MW-8	Total/NA	Water	7470A	
500-218112-17	MW-9	Total/NA	Water	7470A	
MB 500-662549/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-662549/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-218112-9 MS	Duplicate-2	Total/NA	Water	7470A	
500-218112-9 MSD	Duplicate-2	Total/NA	Water	7470A	
500-218112-9 DU	Duplicate-2	Total/NA	Water	7470A	

Prep Batch: 662626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total Recoverable	Water	3005A	
500-218112-2	MW-10	Total Recoverable	Water	3005A	
500-218112-3	MW-11	Total Recoverable	Water	3005A	
500-218112-4	MW-12	Total Recoverable	Water	3005A	
500-218112-5	MW-13	Total Recoverable	Water	3005A	
500-218112-6	MW-14	Total Recoverable	Water	3005A	
500-218112-7	MW-15	Total Recoverable	Water	3005A	
500-218112-8	Duplicate-1	Total Recoverable	Water	3005A	
500-218112-9	Duplicate-2	Total Recoverable	Water	3005A	
500-218112-10	MW-1	Total Recoverable	Water	3005A	
500-218112-11	MW-2	Total Recoverable	Water	3005A	
500-218112-12	MW-3	Total Recoverable	Water	3005A	
500-218112-13	MW-4	Total Recoverable	Water	3005A	
500-218112-14	MW-5	Total Recoverable	Water	3005A	
500-218112-15	MW-7	Total Recoverable	Water	3005A	
500-218112-16	MW-8	Total Recoverable	Water	3005A	
500-218112-17	MW-9	Total Recoverable	Water	3005A	
MB 500-662626/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-662626/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-218112-4 MS	MW-12	Total Recoverable	Water	3005A	
500-218112-4 MSD	MW-12	Total Recoverable	Water	3005A	
500-218112-4 DU	MW-12	Total Recoverable	Water	3005A	

Analysis Batch: 662744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	7470A	662549

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QC Association Summary

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

Job ID: 500-218112-1

Metals (Continued)

Analysis Batch: 662744 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-2	MW-10	Total/NA	Water	7470A	662549
500-218112-3	MW-11	Total/NA	Water	7470A	662549
500-218112-4	MW-12	Total/NA	Water	7470A	662549
500-218112-5	MW-13	Total/NA	Water	7470A	662549
500-218112-6	MW-14	Total/NA	Water	7470A	662549
500-218112-7	MW-15	Total/NA	Water	7470A	662549
500-218112-8	Duplicate-1	Total/NA	Water	7470A	662549
500-218112-9	Duplicate-2	Total/NA	Water	7470A	662549
500-218112-10	MW-1	Total/NA	Water	7470A	662549
500-218112-11	MW-2	Total/NA	Water	7470A	662549
500-218112-12	MW-3	Total/NA	Water	7470A	662549
500-218112-13	MW-4	Total/NA	Water	7470A	662549
500-218112-14	MW-5	Total/NA	Water	7470A	662549
500-218112-15	MW-7	Total/NA	Water	7470A	662549
500-218112-16	MW-8	Total/NA	Water	7470A	662549
500-218112-17	MW-9	Total/NA	Water	7470A	662549
MB 500-662549/12-A	Method Blank	Total/NA	Water	7470A	662549
LCS 500-662549/13-A	Lab Control Sample	Total/NA	Water	7470A	662549
500-218112-9 MS	Duplicate-2	Total/NA	Water	7470A	662549
500-218112-9 MSD	Duplicate-2	Total/NA	Water	7470A	662549
500-218112-9 DU	Duplicate-2	Total/NA	Water	7470A	662549

Analysis Batch: 663015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total Recoverable	Water	6020A	662626
500-218112-2	MW-10	Total Recoverable	Water	6020A	662626
500-218112-3	MW-11	Total Recoverable	Water	6020A	662626
500-218112-4	MW-12	Total Recoverable	Water	6020A	662626
500-218112-5	MW-13	Total Recoverable	Water	6020A	662626
500-218112-6	MW-14	Total Recoverable	Water	6020A	662626
500-218112-7	MW-15	Total Recoverable	Water	6020A	662626
500-218112-8	Duplicate-1	Total Recoverable	Water	6020A	662626
500-218112-9	Duplicate-2	Total Recoverable	Water	6020A	662626
500-218112-10	MW-1	Total Recoverable	Water	6020A	662626
500-218112-11	MW-2	Total Recoverable	Water	6020A	662626
500-218112-12	MW-3	Total Recoverable	Water	6020A	662626
500-218112-13	MW-4	Total Recoverable	Water	6020A	662626
500-218112-14	MW-5	Total Recoverable	Water	6020A	662626
500-218112-15	MW-7	Total Recoverable	Water	6020A	662626
500-218112-16	MW-8	Total Recoverable	Water	6020A	662626
500-218112-17	MW-9	Total Recoverable	Water	6020A	662626
MB 500-662626/1-A	Method Blank	Total Recoverable	Water	6020A	662626
LCS 500-662626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	662626
500-218112-4 MS	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 MSD	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 DU	MW-12	Total Recoverable	Water	6020A	662626

Analysis Batch: 663232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total Recoverable	Water	6020A	662626
500-218112-2	MW-10	Total Recoverable	Water	6020A	662626

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QC Association Summary

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

Job ID: 500-218112-1

Metals (Continued)

Analysis Batch: 663232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-3	MW-11	Total Recoverable	Water	6020A	662626
500-218112-4	MW-12	Total Recoverable	Water	6020A	662626
500-218112-5	MW-13	Total Recoverable	Water	6020A	662626
500-218112-6	MW-14	Total Recoverable	Water	6020A	662626
500-218112-7	MW-15	Total Recoverable	Water	6020A	662626
500-218112-8	Duplicate-1	Total Recoverable	Water	6020A	662626
500-218112-9	Duplicate-2	Total Recoverable	Water	6020A	662626
500-218112-10	MW-1	Total Recoverable	Water	6020A	662626
500-218112-11	MW-2	Total Recoverable	Water	6020A	662626
500-218112-12	MW-3	Total Recoverable	Water	6020A	662626
500-218112-13	MW-4	Total Recoverable	Water	6020A	662626
500-218112-14	MW-5	Total Recoverable	Water	6020A	662626
500-218112-15	MW-7	Total Recoverable	Water	6020A	662626
500-218112-16	MW-8	Total Recoverable	Water	6020A	662626
500-218112-17	MW-9	Total Recoverable	Water	6020A	662626
MB 500-662626/1-A	Method Blank	Total Recoverable	Water	6020A	662626
LCS 500-662626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	662626
500-218112-4 MS	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 MSD	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 DU	MW-12	Total Recoverable	Water	6020A	662626

Analysis Batch: 663608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-5	MW-13	Total Recoverable	Water	6020A	662626

General Chemistry

Analysis Batch: 661504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 4500 Cl- E	
500-218112-2	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-218112-3	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-218112-4	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-218112-5	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-218112-6	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-218112-7	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-218112-8	Duplicate-1	Total/NA	Water	SM 4500 Cl- E	
500-218112-9	Duplicate-2	Total/NA	Water	SM 4500 Cl- E	
MB 500-661504/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-661504/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 661531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 4500 SO4 E	
500-218112-2	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-218112-3	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-218112-4	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-218112-5	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-218112-6	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-218112-7	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-218112-8	Duplicate-1	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-218112-1

General Chemistry (Continued)

Analysis Batch: 661531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-9	Duplicate-2	Total/NA	Water	SM 4500 SO4 E	
MB 500-661531/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-661531/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-218112-2 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-218112-2 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 661787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	SM 4500 SO4 E	
500-218112-11	MW-2	Total/NA	Water	SM 4500 SO4 E	
500-218112-12	MW-3	Total/NA	Water	SM 4500 SO4 E	
500-218112-13	MW-4	Total/NA	Water	SM 4500 SO4 E	
500-218112-14	MW-5	Total/NA	Water	SM 4500 SO4 E	
500-218112-15	MW-7	Total/NA	Water	SM 4500 SO4 E	
500-218112-16	MW-8	Total/NA	Water	SM 4500 SO4 E	
500-218112-17	MW-9	Total/NA	Water	SM 4500 SO4 E	
MB 500-661787/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-661787/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-218112-10 MS	MW-1	Total/NA	Water	SM 4500 SO4 E	
500-218112-10 MSD	MW-1	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 661852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 2540C	
500-218112-2	MW-10	Total/NA	Water	SM 2540C	
500-218112-3	MW-11	Total/NA	Water	SM 2540C	
500-218112-4	MW-12	Total/NA	Water	SM 2540C	
500-218112-5	MW-13	Total/NA	Water	SM 2540C	
500-218112-6	MW-14	Total/NA	Water	SM 2540C	
500-218112-7	MW-15	Total/NA	Water	SM 2540C	
500-218112-8	Duplicate-1	Total/NA	Water	SM 2540C	
500-218112-9	Duplicate-2	Total/NA	Water	SM 2540C	
500-218112-10	MW-1	Total/NA	Water	SM 2540C	
500-218112-11	MW-2	Total/NA	Water	SM 2540C	
500-218112-12	MW-3	Total/NA	Water	SM 2540C	
500-218112-13	MW-4	Total/NA	Water	SM 2540C	
500-218112-14	MW-5	Total/NA	Water	SM 2540C	
500-218112-15	MW-7	Total/NA	Water	SM 2540C	
500-218112-16	MW-8	Total/NA	Water	SM 2540C	
500-218112-17	MW-9	Total/NA	Water	SM 2540C	
MB 500-661852/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-661852/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 662007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	SM 4500 CI- E	
500-218112-11	MW-2	Total/NA	Water	SM 4500 CI- E	
500-218112-12	MW-3	Total/NA	Water	SM 4500 CI- E	
500-218112-13	MW-4	Total/NA	Water	SM 4500 CI- E	
500-218112-14	MW-5	Total/NA	Water	SM 4500 CI- E	
500-218112-15	MW-7	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

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

Job ID: 500-218112-1

General Chemistry (Continued)

Analysis Batch: 662007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-16	MW-8	Total/NA	Water	SM 4500 CI- E	
500-218112-17	MW-9	Total/NA	Water	SM 4500 CI- E	
MB 500-662007/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-662007/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 662917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 4500 F C	
500-218112-2	MW-10	Total/NA	Water	SM 4500 F C	
500-218112-3	MW-11	Total/NA	Water	SM 4500 F C	
500-218112-4	MW-12	Total/NA	Water	SM 4500 F C	
500-218112-5	MW-13	Total/NA	Water	SM 4500 F C	
500-218112-6	MW-14	Total/NA	Water	SM 4500 F C	
500-218112-7	MW-15	Total/NA	Water	SM 4500 F C	
500-218112-8	Duplicate-1	Total/NA	Water	SM 4500 F C	
500-218112-9	Duplicate-2	Total/NA	Water	SM 4500 F C	
500-218112-10	MW-1	Total/NA	Water	SM 4500 F C	
500-218112-11	MW-2	Total/NA	Water	SM 4500 F C	
500-218112-12	MW-3	Total/NA	Water	SM 4500 F C	
500-218112-13	MW-4	Total/NA	Water	SM 4500 F C	
500-218112-14	MW-5	Total/NA	Water	SM 4500 F C	
500-218112-15	MW-7	Total/NA	Water	SM 4500 F C	
500-218112-16	MW-8	Total/NA	Water	SM 4500 F C	
500-218112-17	MW-9	Total/NA	Water	SM 4500 F C	
MB 500-662917/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-662917/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-218112-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-662626/1-A
Matrix: Water
Analysis Batch: 663015

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 17:52	1
Arsenic	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Barium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 17:52	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Calcium	<0.20		0.20		mg/L		06/23/22 15:54	06/24/22 17:52	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Lithium	<0.010		0.010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Molybdenum	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 17:52	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 17:52	1

Lab Sample ID: MB 500-662626/1-A
Matrix: Water
Analysis Batch: 663232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/23/22 15:54	06/27/22 12:31	1

Lab Sample ID: LCS 500-662626/2-A
Matrix: Water
Analysis Batch: 663015

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0981		mg/L		98	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.79		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.932		mg/L		93	80 - 120
Selenium	0.100	0.0988		mg/L		99	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-662626/2-A
Matrix: Water
Analysis Batch: 663232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

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

Job ID: 500-218112-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-218112-4 MS
Matrix: Water
Analysis Batch: 663015

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.494		mg/L		99	75 - 125
Arsenic	0.0015		0.100	0.104		mg/L		103	75 - 125
Barium	0.15		0.500	0.648		mg/L		100	75 - 125
Beryllium	<0.0010		0.0500	0.0483		mg/L		97	75 - 125
Cadmium	<0.00050		0.0500	0.0490		mg/L		98	75 - 125
Calcium	160		10.0	168	4	mg/L		76	75 - 125
Chromium	<0.0050		0.200	0.195		mg/L		97	75 - 125
Cobalt	<0.0010		0.500	0.475		mg/L		95	75 - 125
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125
Lithium	0.012		0.100	0.111		mg/L		99	75 - 125
Molybdenum	0.024		1.00	1.00		mg/L		98	75 - 125
Selenium	0.0045		0.100	0.108		mg/L		103	75 - 125
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125

Lab Sample ID: 500-218112-4 MS
Matrix: Water
Analysis Batch: 663232

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.9		1.00	2.88		mg/L		96	75 - 125

Lab Sample ID: 500-218112-4 MSD
Matrix: Water
Analysis Batch: 663015

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.510		mg/L		102	75 - 125	3	20
Arsenic	0.0015		0.100	0.107		mg/L		105	75 - 125	2	20
Barium	0.15		0.500	0.646		mg/L		100	75 - 125	0	20
Beryllium	<0.0010		0.0500	0.0484		mg/L		97	75 - 125	0	20
Cadmium	<0.00050		0.0500	0.0508		mg/L		102	75 - 125	4	20
Calcium	160		10.0	169	4	mg/L		87	75 - 125	1	20
Chromium	<0.0050		0.200	0.198		mg/L		99	75 - 125	1	20
Cobalt	<0.0010		0.500	0.482		mg/L		96	75 - 125	2	20
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125	0	20
Lithium	0.012		0.100	0.111		mg/L		99	75 - 125	0	20
Molybdenum	0.024		1.00	1.03		mg/L		101	75 - 125	3	20
Selenium	0.0045		0.100	0.111		mg/L		106	75 - 125	3	20
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125	2	20

Lab Sample ID: 500-218112-4 MSD
Matrix: Water
Analysis Batch: 663232

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.9		1.00	2.88		mg/L		96	75 - 125	0	20

QC Sample Results

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

Job ID: 500-218112-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-218112-4 DU
Matrix: Water
Analysis Batch: 663015

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0015		0.00166		mg/L		8	20
Barium	0.15		0.154		mg/L		5	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	160		167		mg/L		4	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	0.012		0.0132		mg/L		7	20
Molybdenum	0.024		0.0256		mg/L		5	20
Selenium	0.0045		0.00456		mg/L		0.4	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-218112-4 DU
Matrix: Water
Analysis Batch: 663232

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.9		1.99		mg/L		3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-662549/12-A
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662549

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:05	1

Lab Sample ID: LCS 500-662549/13-A
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 500-218112-9 MS
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125

Lab Sample ID: 500-218112-9 MSD
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.00020		0.00100	0.000985		mg/L		99	75 - 125	2	20

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QC Sample Results

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

Job ID: 500-218112-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-218112-9 DU
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

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

Lab Sample ID: MB 500-661852/1
Matrix: Water
Analysis Batch: 661852

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			06/20/22 02:39	1

Lab Sample ID: LCS 500-661852/2
Matrix: Water
Analysis Batch: 661852

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 500-661504/16
Matrix: Water
Analysis Batch: 661504

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			06/16/22 11:11	1

Lab Sample ID: LCS 500-661504/17
Matrix: Water
Analysis Batch: 661504

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	20.4		mg/L		102	85 - 115

Lab Sample ID: MB 500-662007/16
Matrix: Water
Analysis Batch: 662007

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			06/20/22 13:38	1

Lab Sample ID: LCS 500-662007/17
Matrix: Water
Analysis Batch: 662007

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	20.4		mg/L		102	85 - 115

QC Sample Results

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

Job ID: 500-218112-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-662917/31
Matrix: Water
Analysis Batch: 662917

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			06/25/22 16:36	1

Lab Sample ID: LCS 500-662917/32
Matrix: Water
Analysis Batch: 662917

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	10.7		mg/L		107	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-661531/16
Matrix: Water
Analysis Batch: 661531

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			06/16/22 12:36	1

Lab Sample ID: LCS 500-661531/17
Matrix: Water
Analysis Batch: 661531

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	21.9		mg/L		110	88 - 123

Lab Sample ID: 500-218112-2 MS
Matrix: Water
Analysis Batch: 661531

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	280		20.0	302	4	mg/L		87	75 - 125

Lab Sample ID: 500-218112-2 MSD
Matrix: Water
Analysis Batch: 661531

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	280		20.0	302	4	mg/L		92	75 - 125	0	20

Lab Sample ID: MB 500-661787/16
Matrix: Water
Analysis Batch: 661787

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			06/17/22 15:05	1

QC Sample Results

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

Job ID: 500-218112-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 500-661787/17
Matrix: Water
Analysis Batch: 661787

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	20.3		mg/L		102	88 - 123

Lab Sample ID: 500-218112-10 MS
Matrix: Water
Analysis Batch: 661787

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	350		20.0	365	4	mg/L		85	75 - 125

Lab Sample ID: 500-218112-10 MSD
Matrix: Water
Analysis Batch: 661787

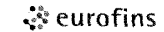
Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	350		20.0	365	4	mg/L		86	75 - 125	0	20

Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler CORY HIGGINS		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1					
Client Contact Mitchel Dolan		Phone 630 277 6038		E-Mail Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1					
Company KPRG and Associates, Inc.		PWSID		Analysis Requested						Job # 500-218112			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Total Number of containers Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4600FC - Fluoride SMA4500CIE Chloride, SMA4500SO4E - Sulfate						Preservation Codes			
City Brookfield		TAT Requested (days)								A HCL		M Hexane	
State Zip WI, 53005		Compliance Project: Δ Yes Δ No								B NaOH		N - None	
Phone 262-781-0475		PO # 4502041043								C Zn Acetate		O AsNaO2	
Email mitcheld@kprginc.com		WO #								D Nitric Acid		P Na2O4S	
Project Name Will County CCR 1N/1S		Project # 50011609		E NaHSO4		Q Na2SO3		F MeOH		R Na2S2O3			
Site Illinois		SSOW#		G Amchlor		S H2SO4		H Ascorbic Acid		T TSP Dodecahydrate			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Other			
						Preservation Code				Special Instructions/Note:			
1 MW-6		6/14/22		14:25		G		W		*Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl			
2 MW-10		6/14/22		13:05									
3 MW-11		6/13/22		15:44									
4 MW-12		6/13/22		14:35									
5 MW-13		6/14/22		11:35									
6 MW-14		6/14/22		10:25									
7 MW-15		6/14/22		09:10									
8 DUPLICATE-1													
9 DUPLICATE-2													
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 I II III IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by Cory Higgins		Date/Time 6/15/22 0930		Company EETA		Received by [Signature]		Date/Time 6/15/22 0930		Company EETA			
Relinquished by [Signature]		Date/Time 6/15/22 1030		Company EETA		Received by [Signature]		Date/Time 6/15/22 1030		Company EETA			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 31 → 17, 14 → 20, 9, 17 → 12									



Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Environment & Energy
 America

500-218112

Client Information		Sampler CORY HIGGINS		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1					
Client Contact: Mitchel Dolan		Phone 630 277 6038		E-Mail Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1					
Company KPRG and Associates Inc.		PWSID		Analysis Requested						Job # 12313.3			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SM4500ClE Chloride, SM4500SO4E - Sulfate						Preservation Codes			
City Brookfield		TAT Requested (days)								A HCL M Hexane		B NaOH N None	
State Zip WI 53005		Compliance Project Δ Yes Δ No								C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone 262-781-0475		PO #: 4502041043								E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email mitcheld@kprginc.com		WO #								G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name Will County CCR 1N/1S		Project # 50011609		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5					
Site Illinois		SSOW#		L EDA Z other (specify)		Other:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note.			
10 MW-1		6/15/22		08:35		G W		N N		5 *Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl			
11 MW-2		6/15/22		09:55									
12 MW-3		6/16/22		11:40									
13 MW-4		6/16/22		10:15									
14 MW-5		6/16/22		09:10									
15 MW-7		6/15/22		13:55									
16 MW-8		6/15/22		12:30									
17 MW-9		6/15/22		11:05									
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 I II III, IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment:							
Relinquished by Cory Higgins		Date/Time 6/16/22		Company KPRG		Received by Phylla Buckley		Date/Time 6/16/22 1350		Company ECHA			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 5.5, 4.0, 5.5, 4.1, 5.4 → 4.0,									



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-218112-1

Login Number: 218112

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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	1.7,0.9,1.2,4.4,4.1,4.0
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

Job ID: 500-218112-1

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 17:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 12:38	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:16	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 02:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	661504	06/16/22 11:15	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:04	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661531	06/16/22 12:39	LP	TAL CHI

Client Sample ID: MW-10

Lab Sample ID: 500-218112-2

Date Collected: 06/14/22 13:05

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:02	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 12:42	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 02:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:15	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:07	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661531	06/16/22 12:38	LP	TAL CHI

Client Sample ID: MW-11

Lab Sample ID: 500-218112-3

Date Collected: 06/13/22 15:44

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 12:45	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:16	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:10	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661531	06/16/22 12:39	LP	TAL CHI

Lab Chronicle

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

Job ID: 500-218112-1

Client Sample ID: MW-12
Date Collected: 06/13/22 14:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 12:48	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:54	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:14	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661531	06/16/22 12:40	LP	TAL CHI

Client Sample ID: MW-13
Date Collected: 06/14/22 11:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 13:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663608	06/29/22 14:01	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:54	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:17	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661531	06/16/22 12:41	LP	TAL CHI

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:19	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:55	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:20	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661531	06/16/22 12:41	LP	TAL CHI

Euofins Chicago

Lab Chronicle

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

Job ID: 500-218112-1

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:24	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:55	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:23	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661531	06/16/22 12:42	LP	TAL CHI

Client Sample ID: Duplicate-1
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 13:27	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:55	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661531	06/16/22 12:42	LP	TAL CHI

Client Sample ID: Duplicate-2
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:31	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:56	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661531	06/16/22 12:42	LP	TAL CHI

Lab Chronicle

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

Job ID: 500-218112-1

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:34	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:09	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:32	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:06	LP	TAL CHI

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:45	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:11	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:06	LP	TAL CHI

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:49	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:07	LP	TAL CHI

Lab Chronicle

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

Job ID: 500-218112-1

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:51	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:28	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:52	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	661787	06/17/22 15:38	LP	TAL CHI

Client Sample ID: MW-5

Lab Sample ID: 500-218112-14

Date Collected: 06/16/22 09:10

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:55	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:40	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661787	06/17/22 15:39	LP	TAL CHI

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:58	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	662007	06/20/22 13:58	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661787	06/17/22 15:39	LP	TAL CHI

Lab Chronicle

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

Job ID: 500-218112-1

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 14:02	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	662007	06/20/22 13:59	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 18:02	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:39	LP	TAL CHI

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 14:05	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	662007	06/20/22 13:59	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 18:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:40	LP	TAL CHI

Laboratory References:

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

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-218112-2
Client Project/Site: Will County CCR

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
7/15/2022 8:10:51 AM

Diana Mockler, Project Manager I
(219)252-7570
Diana.Mockler@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

Job ID: 500-218112-2

Job ID: 500-218112-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-218112-2

Comments

No additional comments.

Receipt

The samples were received on 6/15/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.9° C, 1.2° C, 1.7° C, 4.0° C, 4.1° C and 4.4° C.

RAD

Methods 903.0, 9315: Radium-226 batch 570468

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-6 (500-218112-1), MW-10 (500-218112-2), MW-11 (500-218112-3), MW-12 (500-218112-4), MW-13 (500-218112-5), MW-14 (500-218112-6), MW-15 (500-218112-7), Duplicate-1 (500-218112-8), Duplicate-2 (500-218112-9), (LCS 160-570468/2-A), (MB 160-570468/1-A) and (500-218112-C-1-A DU)

Methods 903.0, 9315: Radium-226 batch 570930

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-1 (500-218112-10), MW-2 (500-218112-11), MW-3 (500-218112-12), MW-4 (500-218112-13), MW-5 (500-218112-14), MW-7 (500-218112-15), MW-8 (500-218112-16), MW-9 (500-218112-17), (LCS 160-570930/2-A), (MB 160-570930/1-A) and (500-218112-E-10-C DU)

Method 904.0: Radium-228 batch 570471

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-13 (500-218112-5). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 570471

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date

MW-6 (500-218112-1), MW-10 (500-218112-2), MW-11 (500-218112-3), MW-12 (500-218112-4), MW-13 (500-218112-5), MW-14 (500-218112-6), MW-15 (500-218112-7), Duplicate-1 (500-218112-8), Duplicate-2 (500-218112-9), (LCS 160-570471/2-A), (MB 160-570471/1-A) and (500-218112-C-1-B DU)

Methods 904.0, 9320: Radium 228 Batch 160-570937

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-1 (500-218112-10), MW-2 (500-218112-11), MW-3 (500-218112-12), MW-4 (500-218112-13), MW-5 (500-218112-14), MW-7 (500-218112-15), MW-8 (500-218112-16), MW-9 (500-218112-17), (LCS 160-570937/2-A), (MB 160-570937/1-A) and (500-218112-E-10-B DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

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

Job ID: 500-218112-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

TAL 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

Job ID: 500-218112-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-218112-1	MW-6	Water	06/14/22 14:25	06/15/22 10:30
500-218112-2	MW-10	Water	06/14/22 13:05	06/15/22 10:30
500-218112-3	MW-11	Water	06/13/22 15:44	06/15/22 10:30
500-218112-4	MW-12	Water	06/13/22 14:35	06/15/22 10:30
500-218112-5	MW-13	Water	06/14/22 11:35	06/15/22 10:30
500-218112-6	MW-14	Water	06/14/22 10:25	06/15/22 10:30
500-218112-7	MW-15	Water	06/14/22 09:10	06/15/22 10:30
500-218112-8	Duplicate-1	Water	06/13/22 00:00	06/15/22 10:30
500-218112-9	Duplicate-2	Water	06/13/22 00:00	06/15/22 10:30
500-218112-10	MW-1	Water	06/15/22 08:35	06/16/22 13:50
500-218112-11	MW-2	Water	06/15/22 09:55	06/16/22 13:50
500-218112-12	MW-3	Water	06/16/22 11:40	06/16/22 13:50
500-218112-13	MW-4	Water	06/16/22 10:15	06/16/22 13:50
500-218112-14	MW-5	Water	06/16/22 09:10	06/16/22 13:50
500-218112-15	MW-7	Water	06/15/22 13:55	06/16/22 13:50
500-218112-16	MW-8	Water	06/15/22 12:30	06/16/22 13:50
500-218112-17	MW-9	Water	06/15/22 11:05	06/16/22 13:50

- 1
- 2
- 3
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- 13

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.147		0.0785	0.0796	1.00	0.0950	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.405	0.417	1.00	0.504	pCi/L	06/17/22 13:47	06/24/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					06/17/22 13:47	06/24/22 10:47	1
Y Carrier	86.0		40 - 110					06/17/22 13:47	06/24/22 10:47	1

Method: 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	1.22		0.413	0.425	5.00	0.504	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-10
Date Collected: 06/14/22 13:05
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-2
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179		0.123	0.124	1.00	0.177	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.37		0.536	0.550	1.00	0.683	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	86.7		40 - 110					06/17/22 13:47	06/24/22 10:48	1

Method: 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	1.55		0.550	0.564	5.00	0.683	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-11
Date Collected: 06/13/22 15:44
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.428		0.166	0.170	1.00	0.172	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.5		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.656	0.663	1.00	0.971	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.5		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	85.2		40 - 110					06/17/22 13:47	06/24/22 10:48	1

Method: 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	1.44		0.677	0.684	5.00	0.971	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-12
Date Collected: 06/13/22 14:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-4
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.201		0.0946	0.0963	1.00	0.116	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.756		0.363	0.369	1.00	0.505	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	84.9		40 - 110					06/17/22 13:47	06/24/22 10:48	1

Method: 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	0.957		0.375	0.381	5.00	0.505	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-13
Date Collected: 06/14/22 11:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.730		0.255	0.264	1.00	0.260	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.857	U G	0.781	0.784	1.00	1.24	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	86.4		40 - 110					06/17/22 13:47	06/24/22 10:48	1

Method: 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	1.59		0.822	0.827	5.00	1.24	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.443		0.116	0.123	1.00	0.0895	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.691		0.331	0.337	1.00	0.448	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	87.1		40 - 110					06/17/22 13:47	06/24/22 10:48	1

Method: 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	1.13		0.351	0.359	5.00	0.448	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.203		0.0877	0.0896	1.00	0.105	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.337	U	0.288	0.290	1.00	0.453	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	87.5		40 - 110					06/17/22 13:47	06/24/22 10:48	1

Method: 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	0.539		0.301	0.304	5.00	0.453	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: Duplicate-1

Lab Sample ID: 500-218112-8

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0245	U	0.0484	0.0485	1.00	0.0868	pCi/L	06/17/22 13:19	07/11/22 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					06/17/22 13:19	07/11/22 13:32	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.740		0.303	0.310	1.00	0.376	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	86.4		40 - 110					06/17/22 13:47	06/24/22 10:49	1

Method: 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	0.765		0.307	0.314	5.00	0.376	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: Duplicate-2

Lab Sample ID: 500-218112-9

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.235		0.0943	0.0966	1.00	0.113	pCi/L	06/17/22 13:19	07/11/22 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/17/22 13:19	07/11/22 13:32	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.976		0.346	0.357	1.00	0.423	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	84.5		40 - 110					06/17/22 13:47	06/24/22 10:49	1

Method: 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	1.21		0.359	0.370	5.00	0.423	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00679	U	0.0554	0.0554	1.00	0.114	pCi/L	06/21/22 13:46	07/13/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					06/21/22 13:46	07/13/22 12:54	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.951		0.337	0.348	1.00	0.404	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	92.7		40 - 110					06/21/22 14:21	06/28/22 11:11	1

Method: 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	0.945		0.342	0.352	5.00	0.404	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286		0.0993	0.103	1.00	0.0939	pCi/L	06/21/22 13:46	07/13/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					06/21/22 13:46	07/13/22 12:55	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.883		0.350	0.360	1.00	0.440	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	95.7		40 - 110					06/21/22 14:21	06/28/22 11:11	1

Method: 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	1.17		0.364	0.374	5.00	0.440	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.277		0.113	0.116	1.00	0.131	pCi/L	06/21/22 13:46	07/13/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					06/21/22 13:46	07/13/22 12:55	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10		0.420	0.432	1.00	0.524	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	93.5		40 - 110					06/21/22 14:21	06/28/22 11:11	1

Method: 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	1.38		0.435	0.447	5.00	0.524	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220		0.113	0.114	1.00	0.149	pCi/L	06/21/22 13:46	07/13/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					06/21/22 13:46	07/13/22 12:55	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.17		0.407	0.421	1.00	0.489	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	93.8		40 - 110					06/21/22 14:21	06/28/22 11:11	1

Method: 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	1.39		0.422	0.436	5.00	0.489	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-5

Lab Sample ID: 500-218112-14

Date Collected: 06/16/22 09:10

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0913		0.0656	0.0661	1.00	0.0871	pCi/L	06/21/22 13:46	07/13/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 13:46	07/13/22 12:56	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.270	U	0.289	0.290	1.00	0.471	pCi/L	06/21/22 14:21	06/28/22 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 14:21	06/28/22 11:12	1
Y Carrier	95.7		40 - 110					06/21/22 14:21	06/28/22 11:12	1

Method: 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	0.361	U	0.296	0.297	5.00	0.471	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.427		0.114	0.120	1.00	0.0961	pCi/L	06/21/22 13:47	07/13/22 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 13:47	07/13/22 12:57	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.874		0.352	0.361	1.00	0.461	pCi/L	06/21/22 14:21	06/28/22 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 14:21	06/28/22 11:13	1
Y Carrier	95.0		40 - 110					06/21/22 14:21	06/28/22 11:13	1

Method: 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	1.30		0.370	0.380	5.00	0.461	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259		0.0984	0.101	1.00	0.0968	pCi/L	06/21/22 13:47	07/13/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					06/21/22 13:47	07/13/22 13:37	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.13		0.416	0.429	1.00	0.519	pCi/L	06/21/22 14:21	06/28/22 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					06/21/22 14:21	06/28/22 11:13	1
Y Carrier	95.7		40 - 110					06/21/22 14:21	06/28/22 11:13	1

Method: 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	1.39		0.427	0.441	5.00	0.519	pCi/L		07/14/22 23:35	1

Client Sample Results

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

Job ID: 500-218112-2

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.0889	0.0895	1.00	0.135	pCi/L	06/21/22 14:18	07/13/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					06/21/22 14:18	07/13/22 13:37	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.102	U	0.178	0.178	1.00	0.390	pCi/L	06/21/22 14:21	06/28/22 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					06/21/22 14:21	06/28/22 11:13	1
Y Carrier	96.1		40 - 110					06/21/22 14:21	06/28/22 11:13	1

Method: 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	0.0106	U	0.199	0.199	5.00	0.390	pCi/L		07/14/22 23:35	1

Definitions/Glossary

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

Job ID: 500-218112-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
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

Job ID: 500-218112-2

Rad

Prep Batch: 570468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	PrecSep-21	
500-218112-2	MW-10	Total/NA	Water	PrecSep-21	
500-218112-3	MW-11	Total/NA	Water	PrecSep-21	
500-218112-4	MW-12	Total/NA	Water	PrecSep-21	
500-218112-5	MW-13	Total/NA	Water	PrecSep-21	
500-218112-6	MW-14	Total/NA	Water	PrecSep-21	
500-218112-7	MW-15	Total/NA	Water	PrecSep-21	
500-218112-8	Duplicate-1	Total/NA	Water	PrecSep-21	
500-218112-9	Duplicate-2	Total/NA	Water	PrecSep-21	
MB 160-570468/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570468/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-218112-1 DU	MW-6	Total/NA	Water	PrecSep-21	

Prep Batch: 570471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	PrecSep_0	
500-218112-2	MW-10	Total/NA	Water	PrecSep_0	
500-218112-3	MW-11	Total/NA	Water	PrecSep_0	
500-218112-4	MW-12	Total/NA	Water	PrecSep_0	
500-218112-5	MW-13	Total/NA	Water	PrecSep_0	
500-218112-6	MW-14	Total/NA	Water	PrecSep_0	
500-218112-7	MW-15	Total/NA	Water	PrecSep_0	
500-218112-8	Duplicate-1	Total/NA	Water	PrecSep_0	
500-218112-9	Duplicate-2	Total/NA	Water	PrecSep_0	
MB 160-570471/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570471/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-218112-1 DU	MW-6	Total/NA	Water	PrecSep_0	

Prep Batch: 570930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	PrecSep-21	
500-218112-11	MW-2	Total/NA	Water	PrecSep-21	
500-218112-12	MW-3	Total/NA	Water	PrecSep-21	
500-218112-13	MW-4	Total/NA	Water	PrecSep-21	
500-218112-14	MW-5	Total/NA	Water	PrecSep-21	
500-218112-15	MW-7	Total/NA	Water	PrecSep-21	
500-218112-16	MW-8	Total/NA	Water	PrecSep-21	
500-218112-17	MW-9	Total/NA	Water	PrecSep-21	
MB 160-570930/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570930/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-218112-10 DU	MW-1	Total/NA	Water	PrecSep-21	

Prep Batch: 570937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	PrecSep_0	
500-218112-11	MW-2	Total/NA	Water	PrecSep_0	
500-218112-12	MW-3	Total/NA	Water	PrecSep_0	
500-218112-13	MW-4	Total/NA	Water	PrecSep_0	
500-218112-14	MW-5	Total/NA	Water	PrecSep_0	
500-218112-15	MW-7	Total/NA	Water	PrecSep_0	
500-218112-16	MW-8	Total/NA	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 500-218112-2

Rad (Continued)

Prep Batch: 570937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-17	MW-9	Total/NA	Water	PrecSep_0	
MB 160-570937/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570937/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-218112-10 DU	MW-1	Total/NA	Water	PrecSep_0	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
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QC Sample Results

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

Job ID: 500-218112-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-570468/1-A
Matrix: Water
Analysis Batch: 573478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570468

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.005455	U	0.0338	0.0338	1.00	0.0770	pCi/L	06/17/22 13:19	07/11/22 08:52	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					06/17/22 13:19	07/11/22 08:52	1

Lab Sample ID: LCS 160-570468/2-A
Matrix: Water
Analysis Batch: 573478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570468

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.493		0.983	1.00	0.0829	pCi/L	84	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield 102	Qualifier	40 - 110						

Lab Sample ID: 500-218112-1 DU
Matrix: Water
Analysis Batch: 573478

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 570468

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.147		0.07999	U	0.0622	1.00	0.0886	pCi/L	0.47	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield 98.8	Qualifier	40 - 110							

Lab Sample ID: MB 160-570930/1-A
Matrix: Water
Analysis Batch: 573688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570930

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02463	U	0.0516	0.0517	1.00	0.0937	pCi/L	06/21/22 13:46	07/13/22 09:15	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					06/21/22 13:46	07/13/22 09:15	1

Lab Sample ID: LCS 160-570930/2-A
Matrix: Water
Analysis Batch: 573688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570930

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.755		1.03	1.00	0.128	pCi/L	86	75 - 125

Eurofins Chicago

QC Sample Results

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

Job ID: 500-218112-2

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

Lab Sample ID: LCS 160-570930/2-A
Matrix: Water
Analysis Batch: 573688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570930

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.6		40 - 110

Lab Sample ID: 500-218112-10 DU
Matrix: Water
Analysis Batch: 573688

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 570930

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert.					Limit
Radium-226	-0.00679	U	0.08883	U	0.0695	1.00	0.101	pCi/L	0.77	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-570471/1-A
Matrix: Water
Analysis Batch: 571618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570471

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert.	Uncert.								
Radium-228	0.5165		0.309	0.313	1.00	0.455	pCi/L	06/17/22 13:47	06/24/22 10:47			1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier				
Ba Carrier	103		40 - 110	06/17/22 13:47	06/24/22 10:47	1
Y Carrier	87.9		40 - 110	06/17/22 13:47	06/24/22 10:47	1

Lab Sample ID: LCS 160-570471/2-A
Matrix: Water
Analysis Batch: 571618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570471

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec
		Result	Qual	Uncert.					Limits
Radium-228	8.51	8.862		1.15	1.00	0.453	pCi/L	104	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: 500-218112-1 DU
Matrix: Water
Analysis Batch: 571618

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 570471

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert.					Limit
Radium-228	1.08		0.7627		0.324	1.00	0.405	pCi/L	0.42	1

Eurofins Chicago

QC Sample Results

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

Job ID: 500-218112-2

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

Lab Sample ID: 500-218112-1 DU
Matrix: Water
Analysis Batch: 571618

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 570471

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.8		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: MB 160-570937/1-A
Matrix: Water
Analysis Batch: 572035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570937

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.8325		0.333	0.342	1.00	0.412	pCi/L	06/21/22 14:21	06/28/22 11:07	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	93.4		40 - 110	06/21/22 14:21	06/28/22 11:07	1
Y Carrier	89.3		40 - 110	06/21/22 14:21	06/28/22 11:07	1

Lab Sample ID: LCS 160-570937/2-A
Matrix: Water
Analysis Batch: 572035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570937

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	90.6		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: 500-218112-10 DU
Matrix: Water
Analysis Batch: 572035

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 570937

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.951		0.9216		0.346	1.00	0.423	pCi/L	0.04	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	102		40 - 110
Y Carrier	93.8		40 - 110

Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler CORY HIGGINS		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1					
Client Contact Mitchel Dolan		Phone 630 277 6038		E-Mail Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1					
Company KPRG and Associates, Inc.		PWSID		Analysis Requested						Job # 500-218112			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SMA4500CIE Chloride, SMA4500SO4E - Sulfate						Preservation Codes			
City Brookfield		TAT Requested (days)								Total Number of Containers		A HCL M Hexane	
State Zip WI, 53005		Compliance Project: Δ Yes Δ No								B NaOH N - None		C Zn Acetate O AsNaO2	
Phone 262-781-0475		PO # 4502041043								D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3	
Email mitcheld@kprginc.com		WO #								F MeOH R Na2S2O3		G Amchlor S H2SO4	
Project Name Will County CCR 1N/1S		Project # 50011609		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone		J DI Water V MCAA					
Site Illinois		SSOW#		K EDTA W pH 4-5		L EDA Z other (specify)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)					
						Preservation Code							
						D D N N		Special Instructions/Note:					
1 MW-6		6/14/22		14:25		G W		5 *Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl					
2 MW-10		6/14/22		13:05									
3 MW-11		6/13/22		15:44									
4 MW-12		6/13/22		14:35									
5 MW-13		6/14/22		11:35									
6 MW-14		6/14/22		10:25									
7 MW-15		6/14/22		09:10									
8 DUPLICATE-1													
9 DUPLICATE-2													
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 I II III IV Other (specify)					Special Instructions/QC Requirements								
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by Cory Higgins		6/15/22		0930		Received by [Signature]		6/15/22 0930					
Relinquished by [Signature]		6/15/22		1030		Received by [Signature]		6/15/22 1030					
Relinquished by		Date/Time		Company		Received by		Date/Time/Company					
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 31 → 17, 14 → 20, 9, 17 → 12									



Eurofins TestAmerica, Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins
 Environment & Energy
 America

500-218112

Client Information		Sampler CORY HIGGINS		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1							
Client Contact: Mitchel Dolan		Phone 630 277 6038		E-Mail Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1							
Company KPRG and Associates Inc.		PWSID		Analysis Requested						Job # 12313.3					
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SM4500ClE Chloride, SM4500SO4E - Sulfate						Preservation Codes					
City Brookfield		TAT Requested (days)								A HCL M Hexane		B NaOH N None		C Zn Acetate O AsNaO2	
State Zip WI 53005		Compliance Project Δ Yes Δ No								D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Phone 262-781-0475		PO #: 4502041043								G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone	
Email mitcheld@kprginc.com		WO #		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Z other (specify)							
Project Name Will County CCR 1N/1S		Project # 50011609		Total Number of containers: 5						Other:					
Site Illinois		SSOW#								Special Instructions/Note.					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)							
						Preservation Code									
MW-1		6/15/22		08:35		G W		N N							
MW-2		6/15/22		09:55		↓ ↓		↓ ↓							
MW-3		6/16/22		11:40		↓ ↓		↓ ↓							
MW-4		6/16/22		10:15		↓ ↓		↓ ↓							
MW-5		6/16/22		09:10		↓ ↓		↓ ↓							
MW-7		6/15/22		13:55		↓ ↓		↓ ↓							
MW-8		6/15/22		12:30		↓ ↓		↓ ↓							
MW-9		6/15/22		11:05		↓ ↓		↓ ↓							
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 I II III, IV Other (specify)					Special Instructions/QC Requirements										
Empty Kit Relinquished by		Date		Time		Method of Shipment:									
Relinquished by Cory Higgins		Date/Time 6/16/22		Company KPRG		Received by Phylla Buckley		Date/Time 6/16/22 1350		Company EUA					
Relinquished by		Date/Time		Company		Received by		Date/Time		Company					
Relinquished by		Date/Time		Company		Received by		Date/Time		Company					
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 5.5, 4.0, 5.5, 4.1, 5.4 → 4.0,											

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-162168.1
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 #: 500-218112-1
Address: 13715 Rider Trail North.		Preservation Codes: M - Hexane N - None O - AsNB02 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
City: Earth City		Analysis Requested	
State, Zip: MO, 63045		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		3	
Email:		3	
Project #: 50011609		3	
SSOW#:		3	
Site: NRG Midwest Generation Will County		3	
Sample Date		3	
Sample Time		3	
Sample Type (C=Comp, G=grab)		3	
Matrix (Water, Seawater, Other)		3	
Preservation Code		3	
Field Filtered Sample (Yes or No)		3	
Perform MS/MSD (Yes or No)		3	
903.0/PreSep_21 Standard Target List		3	
904.0/PreSep_0 Standard Target List		3	
Ra26Ra228 GFPC		3	
Special Instructions/Note:		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-1 (500-218112-10)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-2 (500-218112-11)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-3 (500-218112-12)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-4 (500-218112-13)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-5 (500-218112-14)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-7 (500-218112-15)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-8 (500-218112-16)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-9 (500-218112-17)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	

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/tests/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.

Possible Hazard Identification
 Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 6/16/22 1530 Company: *[Signature]* Company: _____

Relinquished by: **FED EX** Date/Time: JUN 17 2022 0915 Company: **ETXSC** Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Custody Seal No.: _____

Special Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-218112-2

Login Number: 218112

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,0.9,1.2,4.4,4.1,4.0
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 <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: 500-218112-2

Login Number: 218112

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/16/22 11:40 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?	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 <6mm (1/4").	True	
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: 500-218112-2

Login Number: 218112

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/17/22 12:27 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?	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 <6mm (1/4").	True	
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

Job ID: 500-218112-2

Client Sample ID: MW-6

Date Collected: 06/14/22 14:25

Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:47	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-10

Date Collected: 06/14/22 13:05

Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-11

Date Collected: 06/13/22 15:44

Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-12

Date Collected: 06/13/22 14:35

Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-218112-2

Client Sample ID: MW-13
Date Collected: 06/14/22 11:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: Duplicate-1
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:32	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-218112-2

Client Sample ID: Duplicate-2

Lab Sample ID: 500-218112-9

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:32	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:54	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:55	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:55	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-218112-2

Client Sample ID: MW-4

Date Collected: 06/16/22 10:15

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:55	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-5

Date Collected: 06/16/22 09:10

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 12:56	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:12	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-7

Date Collected: 06/15/22 13:55

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:47	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 12:57	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:13	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-8

Date Collected: 06/15/22 12:30

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:47	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 13:37	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:13	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-218112-2

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			570930	06/21/22 14:18	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 13:37	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:13	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Laboratory References:

TAL 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

Job ID: 500-218112-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-218112-1	MW-6	84.5	
500-218112-1 DU	MW-6	98.8	
500-218112-2	MW-10	86.0	
500-218112-3	MW-11	61.5	
500-218112-4	MW-12	96.5	
500-218112-5	MW-13	73.0	
500-218112-6	MW-14	93.0	
500-218112-7	MW-15	102	
500-218112-8	Duplicate-1	106	
500-218112-9	Duplicate-2	105	
500-218112-10	MW-1	99.2	
500-218112-10 DU	MW-1	102	
500-218112-11	MW-2	88.4	
500-218112-12	MW-3	77.5	
500-218112-13	MW-4	82.8	
500-218112-14	MW-5	96.2	
500-218112-15	MW-7	96.2	
500-218112-16	MW-8	81.8	
500-218112-17	MW-9	86.3	
LCS 160-570468/2-A	Lab Control Sample	102	
LCS 160-570930/2-A	Lab Control Sample	90.6	
MB 160-570468/1-A	Method Blank	103	
MB 160-570930/1-A	Method Blank	93.4	

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 (40-110)	Y (40-110)
500-218112-1	MW-6	84.5	86.0
500-218112-1 DU	MW-6	98.8	89.0
500-218112-2	MW-10	86.0	86.7
500-218112-3	MW-11	61.5	85.2
500-218112-4	MW-12	96.5	84.9
500-218112-5	MW-13	73.0	86.4
500-218112-6	MW-14	93.0	87.1
500-218112-7	MW-15	102	87.5
500-218112-8	Duplicate-1	106	86.4
500-218112-9	Duplicate-2	105	84.5
500-218112-10	MW-1	99.2	92.7
500-218112-10 DU	MW-1	102	93.8
500-218112-11	MW-2	88.4	95.7
500-218112-12	MW-3	77.5	93.5
500-218112-13	MW-4	82.8	93.8
500-218112-14	MW-5	96.2	95.7
500-218112-15	MW-7	96.2	95.0

Tracer/Carrier Summary

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

Job ID: 500-218112-2

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(40-110)	(40-110)
500-218112-16	MW-8	81.8	95.7
500-218112-17	MW-9	86.3	96.1
LCS 160-570471/2-A	Lab Control Sample	102	88.6
LCS 160-570937/2-A	Lab Control Sample	90.6	89.0
MB 160-570471/1-A	Method Blank	103	87.9
MB 160-570937/1-A	Method Blank	93.4	89.3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	6/15/22 WCS
Sample Name	MW-1	Start Time	8:19	
Condition of Well	70.35 Good			
Water Level	10.35	Total Depth		
Well Diameter	PVC – 2 inch	Volume in Well		
Method of Purge	Low-Flow	Purge Characteristics	Clear	
Volume Removed	2.5 gal	W L at Sample Time	10.65'	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	CCA/CCR	Sample Time	8:35	
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)
8:23		6.54	13.4	1.597	2.41	-90.1	4.66
8:26		6.49	13.3	1.577	1.06	-87.6	4.05
8:29		6.46	13.2	1.574	0.84	-45.9	10.68
8:32		6.43	13.3	1.569	0.73	-40.0	10.56

SAMPLING NOTES:

Sampler Name and Company:

CORRY HIGGINS
KPRG and Associates

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	6/15/22 WEDS
Sample Name	MW-2	Start Time	9:35	
Condition of Well	Good			
Water Level	11.46	Total Depth	 	
Well Diameter	PVC - 2 inch	Volume in Well	 	
Method of Purge	Low-Flow	Purge Characteristics	Clean	
Volume Removed	2 gal	W L at Sample Time	11.48	
Method of Sample	Low-Flow	Sample Characteristics	Clean	
Sample Analysis	CCA/CCA	Sample Time	9:55	
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)
9:39		7.27	15.0	1.579	4.65	-132.0	5.26
942		7.29	14.6	1.512	1.43	-187.4	4.49
945		7.30	14.7	1.518	1.09	-200.0	3.53
948		7.31	14.5	1.526	0.84	-207.7	3.10
951		7.32	14.6	1.530	0.65	-211.3	2.64

SAMPLING NOTES:

Sampler Name and Company:

CORY HAGGINS
KPRG and Associates

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	6/16/22 THURS
Sample Name	MW-3	Start Time	11:20	
Condition of Well	6000			
Water Level	11.10	Total Depth		
Well Diameter	PVC – 2 inch	Volume in Well		
Method of Purge	Low-Flow	Purge Characteristics	CLEAR	
Volume Removed	2 gal	W L at Sample Time	11.27	
Method of Sample	Low-Flow	Sample Characteristics	CLEAR	
Sample Analysis	CCA/cor	Sample Time	1140	
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)
1122		6.79	13.6	1.543	7.17	-47.1	1.76
1125		6.62	12.6	1.365	1.80	-29.9	2.06
1128		6.61	12.3	1.365	1.09	-30.1	1.58
1131		6.62	12.3	1.366	0.88	-31.7	1.69
1134		6.62	12.3	1.362	0.72	-32.5	1.66

SAMPLING NOTES:

Sampler Name and Company:

CORY HIGGINS
KPRG and Associates

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	6/16/22 THURS
Sample Name	MW-4	Start Time	9:57	
Condition of Well	G600			
Water Level	11.47	Total Depth		
Well Diameter	PVC – 2 inch	Volume in Well		
Method of Purge	Low-Flow	Purge Characteristics	ORANGE EMULSION	
Volume Removed	2.5 gal	W L at Sample Time	11.82	
Method of Sample	Low-Flow	Sample Characteristics	SLIGHT ORANGE	
Sample Analysis	CCR/CCA	Sample Time	1015	
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)
1000		6.73	12.2	2.377	4.62	-40.8	98.30
1003		6.54	12.2	2.416	1.03	-73.4	29.51
1006		6.55	12.0	2.452	0.20	-91.5	15.53
1009		6.57	12.1	2.472	0.64	-98.9	5.80
1012		6.55	12.0	2.488	0.60	-103.6	3.13

SAMPLING NOTES:

Sampler Name and Company:

CORY HIGGINS
KPRG and Associates

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	10/15/22 WOODS
Sample Name	MW - 08	Start Time	12:03	
Condition of Well	Good			
Water Level	11.97	Total Depth		
Well Diameter	PVC - 2 inch	Volume in Well		
Method of Purge	Low-Flow	Purge Characteristics	Clear	
Volume Removed	3 gal	W L at Sample Time	12.82	
Method of Sample	Low-Flow	Sample Characteristics	CLEAR	
Sample Analysis	CCA/CCR	Sample Time	12:30	
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)
1206		6.52	12.7	1.950	4.92	-56.8	276.36
1209		6.59	12.4	1.873	2.81	-62.8	115.40
1212		6.64	12.0	1.856	2.63	-69.4	105.02
1215		6.66	12.0	1.875	2.42	-81.7	19.95
1218		6.67	12.1	1.867	2.29	-89.2	28.53
1221		6.66	12.0	1.895	1.11	-93.6	5.01

SAMPLING NOTES:

Sampler Name and Company:

CORY HILGINS
KPRG and Associates

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	6/14/22 AM TUES
Sample Name	MW-14	Start Time	10:00	
Condition of Well	GOOD			
Water Level	10.82	Total Depth	XXXXXXXXXX	
Well Diameter	PVC - 2 inch	Volume in Well	XXXXXXXXXX	
Method of Purge	Low-Flow	Purge Characteristics	CLEAR	
Volume Removed	2.5 gal	W L at Sample Time	10.96	
Method of Sample	Low-Flow	Sample Characteristics	CLEAR	
Sample Analysis	CCR	Sample Time	1025	
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)
1007		7.58	16.8	1.447	1.35	-214.2	31.30
1010		7.30	18.4	1.545	1.37	-171.9	27.26
1013		7.13	19.4	1.711	0.87	-154.4	41.28
1016		7.11	19.6	1.750	0.63	-154.6	17.02
1019		7.09	19.6	1.785	0.56	-156.7	3.98

SAMPLING NOTES: CCR

Sampler Name and Company:

CORY HIGGINS
KPRG and Associates

