

DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 3rd 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 including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Table 2. Groundwater Turbidity - Ponds 2S and 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-05	2/23/2021	0.63
	4/10/2021	1.28
	4/25/2021	2.41
	5/24/2021	3.78
	6/11/2021	2.4
	6/28/2021	2.89
	7/12/2021	3.93
	8/4/2021	1.35
	8/24/2021	3.5
	9/24/2021	3.59
	11/23/2021	4.45
	2/24/2022	0.37
	6/16/2022	1.76
8/25/2022	2.99	
MW-06	2/23/2021	0.31
	4/10/2021	11.17
	4/25/2021	15.04
	5/24/2021	5.18
	6/11/2021	2.96
	6/29/2021	4.06
	7/12/2021	6.43
	8/4/2021	3.5
	8/24/2021	7.0
	9/24/2021	4.2
	11/23/2021	6.38
	2/22/2022	0.47
	6/14/2022	3.87
	8/25/2022	2.6
MW-09	3/1/2021	0.86
	4/10/2021	6.91
	4/25/2021	2.08
	5/25/2021	14.12
	6/11/2021	2.39
	6/29/2021	2.97
	7/12/2021	3.94
	8/4/2021	0.0
	8/25/2021	19.9
	9/24/2021	3.67
	11/23/2021	19.07
	2/22/2022	0.59
6/15/2022	113.77	
8/25/2022	1.93	
MW-10	2/25/2021	172.14
	4/10/2021	29.99
	4/25/2021	34.77
	5/25/2021	44.14
	6/11/2021	92.03
	6/29/2021	29.35
	7/12/2021	23.45
	8/4/2021	47.68
	8/26/2021	27.5
	9/24/2021	542
	11/23/2021	312.05
	2/24/2022	72.18
	6/14/2022	55.5
8/25/2022	8.83	
MW-11	4/10/2021	269.25
	4/25/2021	60.28
	5/25/2021	9.56
	6/11/2021	77.09
	6/29/2021	7.43
	7/12/2021	39.12
	8/4/2021	9.53
	8/26/2021	11.4
	9/24/2021	9.68
	11/23/2021	1.85
	2/23/2022	162.43
	6/13/2022	27.05
8/23/2022	10.9	
MW-12	4/10/2021	31.67
	4/25/2021	15.04
	5/25/2021	28.65
	6/11/2021	6.1
	6/29/2021	13.04
	7/12/2021	12.99
	8/4/2021	11.97
	8/26/2021	10.9
	9/24/2021	11.97
	11/23/2021	3.88
	2/24/2022	82.8
6/13/2022	4.24	
8/23/2022	7.35	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-221304-1
Client Project/Site: Will County CCR
Sampling Event: Quarterly GW Monitoring

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

Attn: John Niedzwiecki



Authorized for release by:
9/23/2022 8:26:14 AM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

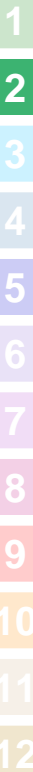


Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	12
QC Association	13
QC Sample Results	16
Chain of Custody	20
Receipt Checklists	22
Chronicle	23

Case Narrative

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

Job ID: 500-221304-1

Job ID: 500-221304-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-221304-1**

Comments

No additional comments.

Receipt

The samples were received on 8/24/2022 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.1° C, 1.1° C and 2.6° C.

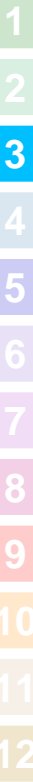
Metals

Method 6020A: The initial calibration verification low level (ICVL) result for batch 500-672787 was above the upper control limit for Cadmium. The samples were bracketed by CCVL that were within control limits and have been reported as qualified data.

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

General Chemistry

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



Method Summary

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

Job ID: 500-221304-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-221304-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221304-1	MW-11	Water	08/23/22 15:37	08/24/22 16:30
500-221304-2	MW-12	Water	08/23/22 16:26	08/24/22 16:30
500-221304-3	MW-05	Water	08/25/22 09:08	08/26/22 09:40
500-221304-4	MW-06	Water	08/25/22 10:01	08/26/22 09:40
500-221304-5	MW-09	Water	08/25/22 14:03	08/26/22 09:40
500-221304-6	MW-10	Water	08/25/22 15:32	08/26/22 09:40

1

2

3

4

5

6

7

8

9

10

11

12

Client Sample Results

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

Job ID: 500-221304-1

Client Sample ID: MW-11
Date Collected: 08/23/22 15:37
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-1
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		08/31/22 08:26	08/31/22 21:56	1
Arsenic	0.0082		0.0010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Barium	0.12		0.0025		mg/L		08/31/22 08:26	08/31/22 21:56	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Boron	2.5		0.50		mg/L		08/31/22 08:26	09/01/22 15:39	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Calcium	110		0.20		mg/L		08/31/22 08:26	08/31/22 21:56	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Lithium	<0.010		0.010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Molybdenum	0.033		0.0050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 21:56	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 21:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			08/30/22 15:20	1
Chloride	140		20		mg/L			08/25/22 14:41	10
Fluoride	0.53		0.10		mg/L			09/02/22 14:11	1
Sulfate	160		50		mg/L			08/25/22 16:02	10

Client Sample Results

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

Job ID: 500-221304-1

Client Sample ID: MW-12
 Date Collected: 08/23/22 16:26
 Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-2
 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		08/31/22 08:26	08/31/22 21:59	1
Arsenic	0.0011		0.0010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Barium	0.18		0.0025		mg/L		08/31/22 08:26	08/31/22 21:59	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Boron	1.9		0.50		mg/L		08/31/22 08:26	09/01/22 15:43	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Calcium	150		0.20		mg/L		08/31/22 08:26	08/31/22 21:59	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Lithium	0.013		0.010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Molybdenum	0.015		0.0050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Selenium	0.0086		0.0025		mg/L		08/31/22 08:26	08/31/22 21:59	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 21:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			08/30/22 15:22	1
Chloride	170		20		mg/L			08/25/22 14:42	10
Fluoride	0.37		0.10		mg/L			09/02/22 14:20	1
Sulfate	160		50		mg/L			08/25/22 16:12	10

Client Sample Results

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

Job ID: 500-221304-1

Client Sample ID: MW-05

Lab Sample ID: 500-221304-3

Date Collected: 08/25/22 09:08

Matrix: Water

Date Received: 08/26/22 09:40

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		08/31/22 08:26	08/31/22 22:03	1
Arsenic	0.0043		0.0010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Barium	0.072		0.0025		mg/L		08/31/22 08:26	08/31/22 22:03	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Boron	6.6		1.0		mg/L		08/31/22 08:26	09/01/22 15:46	20
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Calcium	130		0.20		mg/L		08/31/22 08:26	08/31/22 22:03	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Lithium	0.016		0.010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Molybdenum	0.061		0.0050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Selenium	0.0056		0.0025		mg/L		08/31/22 08:26	08/31/22 22:03	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			09/01/22 15:29	1
Chloride	20		4.0		mg/L			08/29/22 13:42	2
Fluoride	0.40		0.10		mg/L			09/02/22 14:23	1
Sulfate	300		100		mg/L			08/29/22 15:32	20

Client Sample Results

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

Job ID: 500-221304-1

Client Sample ID: MW-06
Date Collected: 08/25/22 10:01
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-4
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		08/31/22 08:26	08/31/22 22:06	1
Arsenic	0.0023		0.0010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Barium	0.088		0.0025		mg/L		08/31/22 08:26	08/31/22 22:06	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Boron	2.7		0.50		mg/L		08/31/22 08:26	09/01/22 15:56	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Calcium	110		0.20		mg/L		08/31/22 08:26	08/31/22 22:06	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Lithium	0.018		0.010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Molybdenum	0.021		0.0050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 22:06	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	750		10		mg/L			09/01/22 15:30	1
Chloride	20		4.0		mg/L			08/29/22 13:42	2
Fluoride	0.42		0.10		mg/L			09/02/22 14:25	1
Sulfate	170		100		mg/L			08/29/22 15:32	20

Client Sample Results

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

Job ID: 500-221304-1

Client Sample ID: MW-09

Lab Sample ID: 500-221304-5

Date Collected: 08/25/22 14:03

Matrix: Water

Date Received: 08/26/22 09:40

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		08/31/22 08:26	08/31/22 22:16	1
Arsenic	0.0089		0.0010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Barium	0.034		0.0025		mg/L		08/31/22 08:26	08/31/22 22:16	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Boron	2.1		0.50		mg/L		08/31/22 08:26	09/01/22 16:00	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Calcium	38		0.20		mg/L		08/31/22 08:26	08/31/22 22:16	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Lithium	<0.010		0.010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Molybdenum	0.065		0.0050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 22:16	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	770		10		mg/L			09/01/22 15:31	1
Chloride	210		20		mg/L			08/29/22 13:42	10
Fluoride	0.58		0.10		mg/L			09/02/22 14:27	1
Sulfate	190		100		mg/L			08/29/22 15:33	20

Client Sample Results

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

Job ID: 500-221304-1

Client Sample ID: MW-10

Lab Sample ID: 500-221304-6

Date Collected: 08/25/22 15:32

Matrix: Water

Date Received: 08/26/22 09:40

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		08/31/22 08:26	08/31/22 22:20	1
Arsenic	0.019		0.0010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Barium	0.11		0.0025		mg/L		08/31/22 08:26	08/31/22 22:20	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Boron	2.6		0.50		mg/L		08/31/22 08:26	09/01/22 16:03	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Calcium	130		0.20		mg/L		08/31/22 08:26	08/31/22 22:20	1
Chromium	0.0053		0.0050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Cobalt	0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Lead	0.0077		0.00050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Lithium	0.015		0.010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Molybdenum	0.12		0.0050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 22:20	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			09/01/22 15:33	1
Chloride	140		20		mg/L			08/29/22 14:05	10
Fluoride	0.99		0.10		mg/L			09/02/22 14:30	1
Sulfate	280		100		mg/L			08/29/22 15:33	20

Definitions/Glossary

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

Job ID: 500-221304-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

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: 500-221304-1

Metals

Prep Batch: 672316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	7470A	
500-221304-2	MW-12	Total/NA	Water	7470A	
500-221304-3	MW-05	Total/NA	Water	7470A	
500-221304-4	MW-06	Total/NA	Water	7470A	
500-221304-5	MW-09	Total/NA	Water	7470A	
500-221304-6	MW-10	Total/NA	Water	7470A	
MB 500-672316/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-672316/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 672467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total Recoverable	Water	3005A	
500-221304-2	MW-12	Total Recoverable	Water	3005A	
500-221304-3	MW-05	Total Recoverable	Water	3005A	
500-221304-4	MW-06	Total Recoverable	Water	3005A	
500-221304-5	MW-09	Total Recoverable	Water	3005A	
500-221304-6	MW-10	Total Recoverable	Water	3005A	
MB 500-672467/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-672467/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 672571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	7470A	672316
500-221304-2	MW-12	Total/NA	Water	7470A	672316
500-221304-3	MW-05	Total/NA	Water	7470A	672316
500-221304-4	MW-06	Total/NA	Water	7470A	672316
500-221304-5	MW-09	Total/NA	Water	7470A	672316
500-221304-6	MW-10	Total/NA	Water	7470A	672316
MB 500-672316/12-A	Method Blank	Total/NA	Water	7470A	672316
LCS 500-672316/13-A	Lab Control Sample	Total/NA	Water	7470A	672316

Analysis Batch: 672787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total Recoverable	Water	6020A	672467
500-221304-2	MW-12	Total Recoverable	Water	6020A	672467
500-221304-3	MW-05	Total Recoverable	Water	6020A	672467
500-221304-4	MW-06	Total Recoverable	Water	6020A	672467
500-221304-5	MW-09	Total Recoverable	Water	6020A	672467
500-221304-6	MW-10	Total Recoverable	Water	6020A	672467
MB 500-672467/1-A	Method Blank	Total Recoverable	Water	6020A	672467
LCS 500-672467/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672467

Analysis Batch: 672872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total Recoverable	Water	6020A	672467
500-221304-2	MW-12	Total Recoverable	Water	6020A	672467
500-221304-3	MW-05	Total Recoverable	Water	6020A	672467
500-221304-4	MW-06	Total Recoverable	Water	6020A	672467
500-221304-5	MW-09	Total Recoverable	Water	6020A	672467
500-221304-6	MW-10	Total Recoverable	Water	6020A	672467
MB 500-672467/1-A	Method Blank	Total Recoverable	Water	6020A	672467

Eurofins Chicago

QC Association Summary

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

Job ID: 500-221304-1

Metals (Continued)

Analysis Batch: 672872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-672467/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672467

General Chemistry

Analysis Batch: 671760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 4500 CI- E	
500-221304-2	MW-12	Total/NA	Water	SM 4500 CI- E	
MB 500-671760/51	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-671760/52	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 671776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-221304-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-671776/58	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-671776/59	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 672196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-3	MW-05	Total/NA	Water	SM 4500 CI- E	
500-221304-4	MW-06	Total/NA	Water	SM 4500 CI- E	
500-221304-5	MW-09	Total/NA	Water	SM 4500 CI- E	
500-221304-6	MW-10	Total/NA	Water	SM 4500 CI- E	
MB 500-672196/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-672196/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 672207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-3	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-221304-4	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-221304-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-221304-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-672207/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-672207/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 672355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 2540C	
500-221304-2	MW-12	Total/NA	Water	SM 2540C	
MB 500-672355/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-672355/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-221304-2 DU	MW-12	Total/NA	Water	SM 2540C	

Analysis Batch: 672840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-3	MW-05	Total/NA	Water	SM 2540C	
500-221304-4	MW-06	Total/NA	Water	SM 2540C	
500-221304-5	MW-09	Total/NA	Water	SM 2540C	
500-221304-6	MW-10	Total/NA	Water	SM 2540C	
MB 500-672840/1	Method Blank	Total/NA	Water	SM 2540C	

Eurolins Chicago

QC Association Summary

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

Job ID: 500-221304-1

General Chemistry (Continued)

Analysis Batch: 672840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-672840/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-221304-5 DU	MW-09	Total/NA	Water	SM 2540C	

Analysis Batch: 673068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 4500 F C	
500-221304-2	MW-12	Total/NA	Water	SM 4500 F C	
500-221304-3	MW-05	Total/NA	Water	SM 4500 F C	
500-221304-4	MW-06	Total/NA	Water	SM 4500 F C	
500-221304-5	MW-09	Total/NA	Water	SM 4500 F C	
500-221304-6	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-673068/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-673068/32	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: 500-221304-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-672467/1-A
Matrix: Water
Analysis Batch: 672787

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/22 08:26	08/31/22 20:54	1
Arsenic	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Barium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 20:54	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Calcium	<0.20		0.20		mg/L		08/31/22 08:26	08/31/22 20:54	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Lithium	<0.010		0.010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Molybdenum	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 20:54	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 20:54	1

Lab Sample ID: MB 500-672467/1-A
Matrix: Water
Analysis Batch: 672872

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		08/31/22 08:26	09/01/22 14:38	1

Lab Sample ID: LCS 500-672467/2-A
Matrix: Water
Analysis Batch: 672787

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.501		mg/L		100	80 - 120
Arsenic	0.100	0.0953		mg/L		95	80 - 120
Barium	2.00	1.99		mg/L		99	80 - 120
Beryllium	0.0500	0.0500		mg/L		100	80 - 120
Cadmium	0.0500	0.0516	^1+	mg/L		103	80 - 120
Calcium	10.0	8.70		mg/L		87	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.497		mg/L		99	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Lithium	0.500	0.532		mg/L		106	80 - 120
Molybdenum	1.00	0.979		mg/L		98	80 - 120
Selenium	0.100	0.0940		mg/L		94	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-672467/2-A
Matrix: Water
Analysis Batch: 672872

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.05		mg/L		105	80 - 120

QC Sample Results

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

Job ID: 500-221304-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-672316/12-A
Matrix: Water
Analysis Batch: 672571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 08:25	1

Lab Sample ID: LCS 500-672316/13-A
Matrix: Water
Analysis Batch: 672571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00177		mg/L		89	80 - 120

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

Lab Sample ID: MB 500-672355/1
Matrix: Water
Analysis Batch: 672355

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			08/30/22 15:00	1

Lab Sample ID: LCS 500-672355/2
Matrix: Water
Analysis Batch: 672355

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	274		mg/L		110	80 - 120

Lab Sample ID: 500-221304-2 DU
Matrix: Water
Analysis Batch: 672355

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1020		mg/L		0.6	5

Lab Sample ID: MB 500-672840/1
Matrix: Water
Analysis Batch: 672840

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			09/01/22 15:15	1

Lab Sample ID: LCS 500-672840/2
Matrix: Water
Analysis Batch: 672840

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	298		mg/L		119	80 - 120

QC Sample Results

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

Job ID: 500-221304-1

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

Lab Sample ID: 500-221304-5 DU
 Matrix: Water
 Analysis Batch: 672840

Client Sample ID: MW-09
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	770		792		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-671760/51
 Matrix: Water
 Analysis Batch: 671760

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			08/25/22 14:38	1

Lab Sample ID: LCS 500-671760/52
 Matrix: Water
 Analysis Batch: 671760

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		99	85 - 115

Lab Sample ID: MB 500-672196/16
 Matrix: Water
 Analysis Batch: 672196

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			08/29/22 13:38	1

Lab Sample ID: LCS 500-672196/17
 Matrix: Water
 Analysis Batch: 672196

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.6		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-673068/31
 Matrix: Water
 Analysis Batch: 673068

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			09/02/22 13:59	1

Lab Sample ID: LCS 500-673068/32
 Matrix: Water
 Analysis Batch: 673068

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	10.8		mg/L		108	90 - 119

QC Sample Results

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

Job ID: 500-221304-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-671776/58
Matrix: Water
Analysis Batch: 671776

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			08/25/22 15:59	1

Lab Sample ID: LCS 500-671776/59
Matrix: Water
Analysis Batch: 671776

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	21.3		mg/L		107	88 - 123

Lab Sample ID: MB 500-672207/16
Matrix: Water
Analysis Batch: 672207

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			08/29/22 14:52	1

Lab Sample ID: LCS 500-672207/17
Matrix: Water
Analysis Batch: 672207

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	20.9		mg/L		105	88 - 123

Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Environment
 America

Client Information	Sampler: IAN S. HOWISON	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-221304 COC 11
---------------------------	--------------------------------	--------------------------	---

Client Contact: Mitchel Dolan	Phone: 630-290-6850	E-Mail: Diana Mockler@Eurofinset.com	State of Origin: WI
-------------------------------	----------------------------	--------------------------------------	----------------------------

Company: KPRG and Associates, Inc.	PWSID:	Analysis Requested:	Page 1 of 1 Job #: 500-221304
------------------------------------	--------	---------------------	---

Address: 14665 West Lisbon Road Suite 1A	Due Date Requested:	<table border="1" style="width:100%"> <tr><td>903.0, 904.0, Radium Combined</td></tr> <tr><td>6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury</td></tr> <tr><td>2540C TDS, 4500FC - Fluoride</td></tr> <tr><td>SM4500ClE Chloride, SM4500SO4E - Sulfate</td></tr> </table>										903.0, 904.0, Radium Combined	6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury	2540C TDS, 4500FC - Fluoride	SM4500ClE Chloride, SM4500SO4E - Sulfate
903.0, 904.0, Radium Combined															
6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury															
2540C TDS, 4500FC - Fluoride															
SM4500ClE Chloride, SM4500SO4E - Sulfate															
City: Brookfield	TAT Requested (days):														
State/Zip: WI 53005	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No														
Phone: 262-781-0475	PO #: 4502041043														
Email: mitcheld@kprginc.com	WO #:	<table border="1" style="width:100%"> <tr> <td style="width:50%"> Preservation Codes A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify) </td> <td style="width:50%">Other:</td> </tr> </table>										Preservation Codes A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)	Other:		
Preservation Codes A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)	Other:														
Project Name: Will County CCR 2S/3S	Project #: 50011609														
Site: Illinois	SSOW#:														

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested										Total Number of containers	Special Instructions/Note:
							D	D	N	N								

1 2	MW-11	8-23-22	15:37	W	W	N	X	X	X											5	*Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl	
	MW-12	8-23-22	16:26	W	W	N	X	X	X												5	

Possible Hazard Identification <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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
---	--

Deliverable Requested I, II, III, IV Other (specify)	Special Instructions/QC Requirements
--	--------------------------------------

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 8-24-22 16:30	Company: KPRG	Received by: <i>[Signature]</i> Date/Time: 8/24/22 1630 Company: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks: 2.4 - 1.1
--	------------------	--


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: <u>JAN. S. HOWESON</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-92124-41061 1					
Client Contact: Mitchel Dolan		Phone: <u>630.290.6850</u>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin		Page: Page 1 of 1					
Company: KPRG and Associates Inc.		PWSID		Analysis Request: 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SM4500ClE Chloride, SM4500SO4E - Sulfate		500-221304 COC 		Job #: <u>500-221304</u>					
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested						Total Number of containers: 5		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F-MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)			
City: Brookfield		TAT Requested (days):								Other:			
State/Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone: 262-781-0475		PO #: 4502041043											
Email: mitcheld@kprginc.com		WO #		Project #:		SSOW#		Special Instructions/Note:					
Project Name: Will County CCR 2S/3S		Project #: 50011609		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)					
Site: Illinois		SSOW#		Sample Type (C=comp, G=grab)		Sample Date		Sample Time					
Sample Identification		Sample Date		Sample Time		Preservation Code:		Special Instructions/Note:					
3 MW-05		8-25-22		09:08		W NN		5 Metals List					
4 MW-06		8-25-22		10:01		W NN		5 Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl					
5 MW-09		8-25-22		14:03		W NN		5					
6 MW-10		8-25-22		15:32		W NN		5					
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: <u>CLIENT DROP OFF</u>							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-26-22 09:40</u>		Company: <u>KPRG</u>		Received by: <u>Failla Kimberly</u>		Date/Time: <u>8/26/22 0940</u>					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>3.9+2.6, 2.4+1.1</u>									



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-221304-1

Login Number: 221304

List Number: 1

Creator: James, Jeff A

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	1.1,2.6,1.1
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: 500-221304-1

Client Sample ID: MW-11
Date Collected: 08/23/22 15:37
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 21:56
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 15:39
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 08:57
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:20
Total/NA	Analysis	SM 4500 CI- E		10	671760	LP	EET CHI	08/25/22 14:41
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:11
Total/NA	Analysis	SM 4500 SO4 E		10	671776	LP	EET CHI	08/25/22 16:02

Client Sample ID: MW-12
Date Collected: 08/23/22 16:26
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 21:59
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 15:43
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 08:59
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:22
Total/NA	Analysis	SM 4500 CI- E		10	671760	LP	EET CHI	08/25/22 14:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:20
Total/NA	Analysis	SM 4500 SO4 E		10	671776	LP	EET CHI	08/25/22 16:12

Client Sample ID: MW-05
Date Collected: 08/25/22 09:08
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:03
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		20	672872	FXG	EET CHI	09/01/22 15:46
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:06
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:29
Total/NA	Analysis	SM 4500 CI- E		2	672196	LP	EET CHI	08/29/22 13:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:23
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:32

Lab Chronicle

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

Job ID: 500-221304-1

Client Sample ID: MW-06

Date Collected: 08/25/22 10:01

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:06
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 15:56
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:08
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:30
Total/NA	Analysis	SM 4500 CI- E		2	672196	LP	EET CHI	08/29/22 13:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:25
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:32

Client Sample ID: MW-09

Date Collected: 08/25/22 14:03

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:16
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 16:00
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:10
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:31
Total/NA	Analysis	SM 4500 CI- E		10	672196	LP	EET CHI	08/29/22 13:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:27
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:33

Client Sample ID: MW-10

Date Collected: 08/25/22 15:32

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:20
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 16:03
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:12
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:33
Total/NA	Analysis	SM 4500 CI- E		10	672196	LP	EET CHI	08/29/22 14:05
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:30
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:33

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

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

Job ID: 500-221304-1

Laboratory References:

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

1

2

3

4

5

6

7

8

9

10

11

12

ANALYTICAL REPORT

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

Laboratory Job ID: 500-221304-2
Client Project/Site: Will County CCR (RAD)
Sampling Event: Quarterly GW Monitoring
Revision: 1

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

Attn: John Niedzwiecki



Authorized for release by:
9/27/2022 12:09:50 PM

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

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	12
QC Association	13
QC Sample Results	14
Chain of Custody	15
Receipt Checklists	19
Chronicle	22
Tracer Carrier Summary	24

Case Narrative

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

Job ID: 500-221304-2

Job ID: 500-221304-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-221304-2

Comments

No additional comments.

Receipt

The samples were received on 8/24/2022 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.1° C, 1.1° C and 2.6° C.

RAD

Methods 903.0, RA-06-RC: Radium-226 batch 580319

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-11 (500-221304-1), MW-12 (500-221304-2), MW-05 (500-221304-3), MW-06 (500-221304-4), MW-09 (500-221304-5), MW-10 (500-221304-6), (LCS 160-580319/2-A), (MB 160-580319/1-A), (500-221301-E-1-A) and (500-221301-C-1-A DU)

Methods 904.0, RA-06-RC: Radium-228 batch 580328

The detection goal was not met for the following sample(s). The sample was prepped at a reduced volume due to the presence of matrix interferences: MW-11 (500-221304-1). Analytical results are reported with the detection limit achieved.

Methods 904.0, RA-06-RC: Radium-228 batch 580328

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-11 (500-221304-1), MW-12 (500-221304-2), MW-05 (500-221304-3), MW-06 (500-221304-4), MW-09 (500-221304-5), MW-10 (500-221304-6), (LCS 160-580328/2-A), (MB 160-580328/1-A), (500-221301-E-1-B) and (500-221301-C-1-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 (RAD)

Job ID: 500-221304-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

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

Job ID: 500-221304-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221304-1	MW-11	Water	08/23/22 15:37	08/24/22 16:30
500-221304-2	MW-12	Water	08/23/22 16:26	08/24/22 16:30
500-221304-3	MW-05	Water	08/25/22 09:08	08/26/22 09:40
500-221304-4	MW-06	Water	08/25/22 10:01	08/26/22 09:40
500-221304-5	MW-09	Water	08/25/22 14:03	08/26/22 09:40
500-221304-6	MW-10	Water	08/25/22 15:32	08/26/22 09:40

1

2

3

4

5

6

7

8

9

10

11

12

13

Client Sample Results

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

Job ID: 500-221304-2

Client Sample ID: MW-11

Lab Sample ID: 500-221304-1

Date Collected: 08/23/22 15:37

Matrix: Water

Date Received: 08/24/22 16:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.475		0.250	0.254	1.00	0.327	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					09/01/22 09:35	09/23/22 09:07	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	1.54	G	0.930	0.940	1.00	1.35	pCi/L	09/01/22 10:07	09/13/22 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					09/01/22 10:07	09/13/22 13:46	1
Y Carrier	81.9		40 - 110					09/01/22 10:07	09/13/22 13:46	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	2.02		0.963	0.974	5.00	1.35	pCi/L		09/27/22 11:50	1

Client Sample Results

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

Job ID: 500-221304-2

Client Sample ID: MW-12

Lab Sample ID: 500-221304-2

Date Collected: 08/23/22 16:26

Matrix: Water

Date Received: 08/24/22 16:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0716	0.0724	1.00	0.0882	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					09/01/22 09:35	09/23/22 09:07	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	0.585		0.328	0.332	1.00	0.466	pCi/L	09/01/22 10:07	09/13/22 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					09/01/22 10:07	09/13/22 13:46	1
Y Carrier	81.9		40 - 110					09/01/22 10:07	09/13/22 13:46	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	0.709		0.336	0.340	5.00	0.466	pCi/L		09/27/22 11:50	1

Client Sample Results

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

Job ID: 500-221304-2

Client Sample ID: MW-05

Lab Sample ID: 500-221304-3

Date Collected: 08/25/22 09:08

Matrix: Water

Date Received: 08/26/22 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0843	U	0.0663	0.0668	1.00	0.0950	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					09/01/22 09:35	09/23/22 09:07	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	0.230	U	0.339	0.339	1.00	0.570	pCi/L	09/01/22 10:07	09/13/22 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					09/01/22 10:07	09/13/22 13:46	1
Y Carrier	81.1		40 - 110					09/01/22 10:07	09/13/22 13:46	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	0.314	U	0.345	0.346	5.00	0.570	pCi/L		09/27/22 11:50	1

Client Sample Results

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

Job ID: 500-221304-2

Client Sample ID: MW-06
Date Collected: 08/25/22 10:01
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-4
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	0.132		0.0769	0.0778	1.00	0.0984	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					09/01/22 09:35	09/23/22 09:07	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	0.256	U	0.313	0.314	1.00	0.519	pCi/L	09/01/22 10:07	09/13/22 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					09/01/22 10:07	09/13/22 13:48	1
Y Carrier	83.7		40 - 110					09/01/22 10:07	09/13/22 13:48	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	0.388	U	0.322	0.323	5.00	0.519	pCi/L		09/27/22 11:50	1

Client Sample Results

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

Job ID: 500-221304-2

Client Sample ID: MW-09

Lab Sample ID: 500-221304-5

Date Collected: 08/25/22 14:03

Matrix: Water

Date Received: 08/26/22 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0534	U	0.0735	0.0737	1.00	0.124	pCi/L	09/01/22 09:35	09/23/22 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					09/01/22 09:35	09/23/22 09:08	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	1.16		0.501	0.513	1.00	0.661	pCi/L	09/01/22 10:07	09/13/22 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					09/01/22 10:07	09/13/22 13:48	1
Y Carrier	83.7		40 - 110					09/01/22 10:07	09/13/22 13:48	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	1.22		0.506	0.518	5.00	0.661	pCi/L		09/27/22 11:50	1

Client Sample Results

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

Job ID: 500-221304-2

Client Sample ID: MW-10

Lab Sample ID: 500-221304-6

Date Collected: 08/25/22 15:32

Matrix: Water

Date Received: 08/26/22 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.416		0.171	0.175	1.00	0.202	pCi/L	09/01/22 09:35	09/23/22 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					09/01/22 09:35	09/23/22 09:08	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	0.789		0.480	0.486	1.00	0.694	pCi/L	09/01/22 10:07	09/13/22 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					09/01/22 10:07	09/13/22 13:48	1
Y Carrier	81.5		40 - 110					09/01/22 10:07	09/13/22 13:48	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	1.20		0.510	0.517	5.00	0.694	pCi/L		09/27/22 11:50	1

Definitions/Glossary

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

Job ID: 500-221304-2

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 (RAD)

Job ID: 500-221304-2

Rad

Prep Batch: 580319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	PrecSep-21	
500-221304-2	MW-12	Total/NA	Water	PrecSep-21	
500-221304-3	MW-05	Total/NA	Water	PrecSep-21	
500-221304-4	MW-06	Total/NA	Water	PrecSep-21	
500-221304-5	MW-09	Total/NA	Water	PrecSep-21	
500-221304-6	MW-10	Total/NA	Water	PrecSep-21	
MB 160-580319/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-580319/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 580328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	PrecSep_0	
500-221304-2	MW-12	Total/NA	Water	PrecSep_0	
500-221304-3	MW-05	Total/NA	Water	PrecSep_0	
500-221304-4	MW-06	Total/NA	Water	PrecSep_0	
500-221304-5	MW-09	Total/NA	Water	PrecSep_0	
500-221304-6	MW-10	Total/NA	Water	PrecSep_0	
MB 160-580328/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-580328/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-221304-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-580319/1-A
Matrix: Water
Analysis Batch: 583225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580319

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.006435	U	0.0472	0.0472	1.00	0.0959	pCi/L	09/01/22 09:35	09/23/22 07:11	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	96.8		40 - 110		09/01/22 09:35	09/23/22 07:11	1			

Lab Sample ID: LCS 160-580319/2-A
Matrix: Water
Analysis Batch: 583225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580319

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.457		0.988	1.00	0.0927	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	104		40 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-580328/1-A
Matrix: Water
Analysis Batch: 581987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580328

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3923	U	0.300	0.303	1.00	0.462	pCi/L	09/01/22 10:07	09/13/22 13:43	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	96.8		40 - 110		09/01/22 10:07	09/13/22 13:43	1			
Y Carrier	85.6		40 - 110		09/01/22 10:07	09/13/22 13:43	1			

Lab Sample ID: LCS 160-580328/2-A
Matrix: Water
Analysis Batch: 581987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580328

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.28	9.034		1.19	1.00	0.404	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	104		40 - 110						
Y Carrier	82.2		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 t p
America

Client Information | Sampler: *IAN S. HOWISON* | Lab PM: Mockler, Diana J | Carrier Tracking No(s): 500-221304 COC 11
 Client Contact: Mitchel Dolan | Phone: *630-290-6850* | E-Mail: Diana.Mockler@Eurofinset.com | State of Origin: | Page 1 of 1

Company: KPRG and Associates, Inc. | PWSID: | Analysis Requested: *500-221304*
 Address: 14865 West Lisbon Road Suite 1A | Due Date Requested: | Job #:
 City: Brookfield | TAT Requested (days): | Preservation Codes:
 State/Zip: WI 53005 | Compliance Project: Δ Yes Δ No | A HCL M Hexane
 Phone: 262-781-0475 | PO #: 4502041043 | B NaOH N - None
 Email: mitcheld@kprginc.com | WO #: | C Zn Acetate O AsNaO2
 Project Name: Will County CCR 2S/3S | Project #: 50011609 | D Nitric Acid P Na2O4S
 Site: Illinois | SSO#: | E NaHSO4 Q Na2SO3
 F MeOH R Na2S2O3
 G Amchlor S H2SO4
 H Ascorbic Acid T TSP Dodecahydrate
 I Ice U Acetone
 J DI Water V MCAA
 K EDTA W pH 4-5
 L EDTA Z other (specify)
 Other: | Total Number of containers: | 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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested				Total Number of containers	Special Instructions/Note
							D	D	N	N		
<i>1 MW-11</i>	<i>8-23-22</i>	<i>15:37</i>	<i>W</i>	<i>W</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>5</i>	*Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Te
<i>2 MW-12</i>	<i>8-23-22</i>	<i>16:26</i>	<i>W</i>	<i>W</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>5</i>	

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return To Client Disposal By Lab 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: *[Signature]* Date/Time: *8-24-22 16:30* Company: *KPRG* Received by: *[Signature]* Date/Time: *8/24/22 1630* Company: *[Signature]*
 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: *2.4 - 1.1*

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: <u>JAN. S. HOWESON</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-92124-41061 1	
Client Contact: Mitchel Dolan		Phone: <u>630-290-6850</u>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin		Page: Page 1 of 1	
Company: KPRG and Associates Inc.		PWSID		Analysis Request		500-221304 COC		Job #: <u>500-221304</u>	
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	
City: Brookfield		TAT Requested (days):							
State/Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: 262-781-0475		PO #: 4502041043							
Email: mitcheld@kprginc.com		WO #							
Project Name: Will County CCR 2S/3S		Project #: 50011609							
Site: Illinois		SSOW#		Total Number of containers		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F-MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)			
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:			
3	MW-05	8-25-22	09:08	W	NN	X	X	X	X
4	MW-06	8-25-22	10:01	W	NN	X	X	X	X
5	MW-09	8-25-22	14:03	W	NN	X	X	X	X
6	MW-10	8-25-22	15:32	W	NN	X	X	X	X
Possible Hazard Identification		<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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Deliverable Requested I II III IV, Other (specify)				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Empty Kit Relinquished by		Date		Time		Method of Shipment: <u>CLIENT DROP OFF</u>			
Relinquished by <u>[Signature]</u>		Date/Time: <u>8-26-22 09:40</u>		Company: <u>KPRG</u>		Received by: <u>Failla Kimberly</u>		Date/Time: <u>8/26/22 0940</u>	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>3.9+26, 2.4+11</u>					

Eurofins Chicago

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

Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)		Sampler: Lab PM: Mockler, Diana J		COC No: 500-164629.1	
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 #: 500-221304-2	
Address: 13715 Rider Trail North,		Due Date Requested: 9/14/2022		Preservation Codes: A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
City: Earth City		TAT Requested (days):		Analysis Requested	
State, Zip: MO, 63045		PO #:		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		903.0/PreSep_21 Standard Target List	
Email:		Project #:		904.0/PreSep_0 Standard Target List	
Project Name: Will County CCR (RAD)		SSOW#:		Perform MS/MSD (Yes or No)	
Site: NRG Midwest Generation Will County		Sample Date		Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Time		Matrix (Weaver, Sewall, Onwast/Oil, B1+Tissue, A+B)	
MW-11 (500-221304-1)	8/23/22	15:37 Central	Water	903.0/PreSep_21 Standard Target List	X
MW-12 (500-221304-2)	8/23/22	16:26 Central	Water	904.0/PreSep_0 Standard Target List	X
Special Instructions/Note:		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;		3	
		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;		3	

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

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: FEDEX

Relinquished by: Stephanie Hammond Date/Time: 8/15/22 1430 Company: EETA

Relinquished by: FED EX Date/Time: Received by: Diana Weddington AUG 26 2022 1730 Company: EMSR

Relinquished by: Date/Time: Received by: Date/Time: Company: Company:

Custody Seals Intact: Custody Seal No.:



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

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PIV: Mockler, Diana J		COC No: 500-164680.1	
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 #: 500-221304-2	
Address: 13715 Rider Trail North,		Due Date Requested: 9/14/2022		Preservation Codes: M - Hexane N - None O - AsNaO2 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		TAT Requested (days):		Analysis Requested	
State, Zip: MO, 63045		PO #:		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		903.0/PreSep_21 Standard Target List	
Email:		Project #: 500T1609		904.0/PreSep_0 Standard Target List	
Will County CCR (RAD)		SSOW#:		Perform MS/MSD (Yes or No)	
Site: NRG Midwest Generation Will County				Field Filtered Sample (Yes or No)	
				Matrix (Water, Seawater, Urine, Blood, etc.)	
				Sample Type (C=Comp, G=grab)	
				Sample Time	
				Sample Date	
				Preservation Code:	
				Special Instructions/Note:	
				Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
				Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
				Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
				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 out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

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

Sample 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:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment:
 Relinquished by: *Shirley* Date: 8/26/22 1500 Company: *FEDEX*
 Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____ Received by: *Patricia* Date/Time: **AUG 27 2022 1004** Company: *FEDEX*
 Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Custody Seal No.:



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-221304-2

Login Number: 221304

List Number: 1

Creator: James, Jeff A

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	1.1,2.6,1.1
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: 500-221304-2

Login Number: 221304

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 08/26/22 04:05 PM

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.	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 <math><6\text{mm}</math> (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: 500-221304-2

Login Number: 221304

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 08/29/22 10:46 AM

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.	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 <math><6\text{mm}</math> (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 (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-11

Date Collected: 08/23/22 15:37

Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:46
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-12

Date Collected: 08/23/22 16:26

Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:46
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-05

Date Collected: 08/25/22 09:08

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:46
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-06

Date Collected: 08/25/22 10:01

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:48
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Lab Chronicle

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

Job ID: 500-221304-2

Client Sample ID: MW-09

Date Collected: 08/25/22 14:03

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:08
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:48
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-10

Date Collected: 08/25/22 15:32

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:08
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:48
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Laboratory References:

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

Tracer/Carrier Summary

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

Job ID: 500-221304-2

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)	
500-221304-1	MW-11	69.1	
500-221304-2	MW-12	99.0	
500-221304-3	MW-05	97.3	
500-221304-4	MW-06	96.0	
500-221304-5	MW-09	70.1	
500-221304-6	MW-10	85.4	
LCS 160-580319/2-A	Lab Control Sample	104	
MB 160-580319/1-A	Method Blank	96.8	

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)
500-221304-1	MW-11	69.1	81.9
500-221304-2	MW-12	99.0	81.9
500-221304-3	MW-05	97.3	81.1
500-221304-4	MW-06	96.0	83.7
500-221304-5	MW-09	70.1	83.7
500-221304-6	MW-10	85.4	81.5
LCS 160-580328/2-A	Lab Control Sample	104	82.2
MB 160-580328/1-A	Method Blank	96.8	85.6

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

ANALYTICAL REPORT

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

Laboratory Job ID: 500-223050-1

Client Project/Site: Will County CCR - MW-10 Resample
(As/Pb)

For:

KPRG and Associates, Inc.
414 Plaza Drive Suite 106
Westmont, Illinois 60559

Attn: Mitchel Dolan



Authorized for release by:
10/5/2022 3:02:01 PM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	8
QC Association	9
QC Sample Results	10
Chronicle	11
Certification Summary	12
Chain of Custody	13
Receipt Checklists	14



Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Job ID: 500-223050-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-223050-1**

Comments

No additional comments.

Receipt

The sample was received on 9/29/2022 4:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

Metals

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-223050-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0088		0.0010		mg/L	1		6020A	Total
Lead	0.00093		0.00050		mg/L	1		6020A	Recoverable
									Total
									Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-223050-1	MW-10 CCR	Water	09/28/22 17:52	09/29/22 16:54

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-223050-1

Date Collected: 09/28/22 17:52

Matrix: Water

Date Received: 09/29/22 16:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0088		0.0010		mg/L		10/04/22 09:14	10/04/22 22:41	1
Lead	0.00093		0.00050		mg/L		10/04/22 09:14	10/04/22 22:41	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

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: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Metals

Prep Batch: 677745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-223050-1	MW-10 CCR	Total Recoverable	Water	3005A	
MB 500-677745/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-677745/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 678011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-223050-1	MW-10 CCR	Total Recoverable	Water	6020A	677745
MB 500-677745/1-A	Method Blank	Total Recoverable	Water	6020A	677745
LCS 500-677745/2-A	Lab Control Sample	Total Recoverable	Water	6020A	677745

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-677745/1-A
Matrix: Water
Analysis Batch: 678011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		10/04/22 09:14	10/04/22 21:35	1
Lead	<0.00050		0.00050		mg/L		10/04/22 09:14	10/04/22 21:35	1

Lab Sample ID: LCS 500-677745/2-A
Matrix: Water
Analysis Batch: 678011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0956		mg/L		96	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-223050-1

Date Collected: 09/28/22 17:52

Matrix: Water

Date Received: 09/29/22 16:54

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total Recoverable	Prep	3005A			677745	BDE	EET CHI	10/04/22 09:14 - 10/04/22 09:44 ¹
Total Recoverable	Analysis	6020A		1	678011	FXG	EET CHI	10/04/22 22:41

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23


- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins TestAmerica, Chicago

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

Chain of Custody Record

eurofins Environment America

Client Information Client Contact: Mitchel Dolan Company: KPRG and Associates Inc. Address: 14665 West Lisbon Road Suite 1A City: Brookfield State Zip: WI, 53005 Phone: 262-781-0475 Email: mitcheld@kprginc.com Project Name: Will County CCR 2S/3S Site: Illinois		Sampler: <i>LAN SOHN HOWISON</i> Phone: <i>630-825-1300</i> PWSID:		Lab PM: Mockler Diana J E-Mail: Diana.Mockler@Eurofinset.com		Carrier Tracking No(s) State of Origin		COC No: 500-92124-41061 1 Page: Page 1 of 1 Job #: <i>500-223050</i>	
Due Date Requested TAT Requested (days) Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502041043 WO#		Analysis Requested							
 500-223050 COC				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 A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air) Preservation Code:				Total Number of Containers		Special Instructions/Note.			
MW-10 CCR NOT FILTERED		9-28-22 17:52		W		1		*Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl	
Possible Hazard Identification <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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <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: <i>[Signature]</i>		Date: 9-29-22/16:30		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 9-29-22/16:30		Company: KPRG		Received by: <i>Stephanie Hemond</i>		Date/Time: 9/29/22 16:30	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>4.3 + 90</i>					

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-223050-1

Login Number: 223050

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	3.0
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	



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	8-25-22
Sample Name	MW-05	Start Time	08:50	
Condition of Well	GOOD			
Water Level	10.23	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	TRACE TURBIDITY	
Volume Removed	5 QTS	W L at Sample Time	10.27	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA+CCR	Sample Time	09:08 CT	
Water Quality Meter	YSI ProDss			

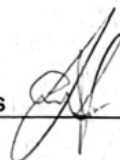
Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
08:53	10.30	6.85	16.1	1.403	2.68	-8.7	8.70
08:56	10.35	6.74	16.2	1.375	1.81	-27.6	5.15
08:59	10.31	6.72	16.3	1.371	1.49	-39.8	3.93
09:02	—	6.71	16.4	1.374	1.38	-60.2	3.24
09:05	—	6.71	16.4	1.379	1.34	-78.2	2.98
09:08	10.27	6.69	16.5	1.390	1.28	-88.1	2.99

SAMPLING NOTES:

HEAVY RAIN

Sampler Name and Company:

KPRG and Associates

 IAN, J. HOWIESON


PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	8-25-22
Sample Name	MW-06	Start Time	09:49	
Condition of Well	GOOD			
Water Level	11.74	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	4.5 QTS	W L at Sample Time	11.78	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	10:01 CT	
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)
09:52	11.78	7.64	16.2	1.104	3.82	-113.8	4.93
09:55	11.84	7.39	16.1	1.098	1.48	-113.5	2.96
09:58	11.76	7.32	16.4	1.099	1.30	-115.8	1.98
10:01	11.81	7.31	16.3	1.093	1.22	-119.1	2.6

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

 JANIS HOLMERSON

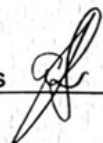
PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	8-25-22
Sample Name	MW-09	Start Time	13:51	
Condition of Well	GOOD			
Water Level	11.71	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	4.5 QRS	WL at Sample Time	11.92	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	14:03 CT	
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)
13:54	12.14	8.86	17.0	1.361	2.05	-150.2	1.97
13:57	12.18	8.79	16.9	1.356	1.36	-153.2	1.99
14:00	12.15	8.71	16.9	1.361	1.16	-156.3	1.95
14:03	11.92	8.68	16.8	1.263	1.14	-158.8	1.93

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

 IAN S. HOWIESON


PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	8-25-22
Sample Name	MW-10	Start Time	15:20	
Condition of Well	GOOD			
Water Level	10.87	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	BROWN TINT → color SLIGHT TURB	
Volume Removed	4 QTS	W L at Sample Time	10.94	
Method of Sample	Low-Flow	Sample Characteristics	TINT → CLEAR	
Sample Analysis	CCA + CLR	Sample Time	15:32	
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)
15:23	10.96	7.88	19.8	1.374	1.21	-154.2	19.20
15:26	10.94	7.60	20.1	1.378	1.12	-150.4	11.98
15:29	10.94	7.50	20.4	1.386	1.06	-148.4	8.92
15:32	10.94	7.47	20.4	1.387	1.04	-148.5	8.83

SAMPLING NOTES: BLOCKAGE ON AIR INTAKE, CLEARED.

Sampler Name and Company:

KPRG and Associates

 IAN, S. HOWESON


PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	8-23-22
Sample Name	MW-11	Start Time	15:20	
Condition of Well	GOOD			
Water Level	10.17	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	TRACE TO RB	
Volume Removed	5.5 GTS	W L at Sample Time	10.56	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CER	Sample Time	15:37 LT	
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)
15:25	10.38	7.37	19.1	1.327	2.09	-122.6	49.2
15:28	10.43	7.32	17.0	1.333	1.44	-127.6	40.2
15:31	10.48	7.11	16.5	1.341	1.16	-121.8	19.5
15:34	—	6.99	16.4	1.356	1.04	-115.8	13.5
15:37	10.54	6.94	16.3	1.363	1.07	-112.6	10.9

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

 IAN, S. HOWISON


PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	8-23-22
Sample Name	MW-12	Start Time	16:08	
Condition of Well	GOOD			
Water Level	10.43	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	4.5 QTS	W L at Sample Time	10.41	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR	Sample Time	16:26 CT	
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)
16:11	10.43	7.26	16.3	1.843	3.77	-42.1	5.84
16:14	10.43	6.86	15.9	1.794	2.63	-15.3	8.79
16:17	10.43	6.71	15.9	1.766	2.14	38.9	8.24
16:20	10.41	6.64	15.9	1.748	1.86	56.9	7.29
16:23	10.43	6.63	16.0	1.744	1.81	62.4	7.55
16:26	10.41	6.62	16.1	1.738	1.77	66.1	7.35

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

 IAN S. HOWIESON