

DATA SUMMARY POSTING

Station: Midwest Generation Joliet #29 Generating Station

Regulated Unit(s): Pond 2 (IEPA ID No. W1970450047-02)

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

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

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #29, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium	
MW-05 down-gradient	10/28/2015	0.64	100	160	0.39	7.12	120	790	< 0.003	0.0011	0.057	^< 0.001	< 0.0005	< 0.005	0.0013	< 0.0005	0.018	< 0.0002	0.0088	0.6231	0.0031	< 0.002	
	2/10/2016	0.46	110	220	0.39	7.25	120	790	< 0.003	0.0028	0.071	< 0.001	< 0.0005	0.0062	0.0013	0.0022	< 0.02	< 0.0002	F1 0.0053	1.09	< 0.0025	< 0.002	
	5/10/2016	0.8	150	220	0.46	6.88	290	950	< 0.003	0.0023	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	0.0022	0.014	< 0.0002	0.008	< 0.40	0.019	< 0.002	
	8/31/2016	1.0	140	99	0.56	6.81	260	820	< 0.003	< 0.001	0.07	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.012	< 0.42	0.02	< 0.002	
	11/2/2016	0.41	98	130	0.37	7.26	100	700	< 0.003	0.0022	0.056	< 0.001	< 0.0005	0.0051	< 0.001	0.0017	0.015	< 0.0002	0.0061	0.438	< 0.0025	< 0.002	
	2/6/2017	0.48	150	180	0.30	7.22	120	790	< 0.003	0.0016	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	0.0016	0.021	< 0.0002	< 0.005	0.564	0.0029	< 0.002	
	4/26/2017	0.67	110	F1 190	0.37	7.28	170	770	< 0.003	0.0014	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	0.0008	< 0.01	< 0.0002	< 0.0066	< 0.411	0.013	< 0.002	
	6/14/2017	0.44	75	150	0.46	7.47	110	670	< 0.003	0.0012	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0076	< 0.316	0.0029	< 0.002	
	8/2/2017	0.28	83	170	0.35	7.30	99	770	< 0.003	< 0.001	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0053	0.659	< 0.0025	< 0.002	
	10/18/2017	0.42	110	110	0.38	7.16	95	720	< 0.003	0.002	0.067	^< 0.001	< 0.0005	< 0.005	< 0.001	0.0023	0.018	< 0.0002	< 0.005	< 0.371	0.0029	^< 0.002	
	4/24/2018	0.31	110	300	0.34	7.33	130	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/31/2018 R	NA	NA	NA	NA	NA	NA	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/17/2018	0.31	110	210	0.36	7.29	93	810	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/6/2019	0.38	130	500	0.31	7.11	84	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	NA	NA	150	NA	NA	NA	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/2019	0.31	180	130	0.3	7.44	64	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2019 R	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/20/2020	0.32	100	270	0.37	7.03	67	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/2020	0.52	92	180	0.38	7.16	85	720	< 0.003	0.0012	0.069	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0054	NA	0.003	< 0.002	
	5/18/2021	0.37	130	410	0.3	7.00	160	1300	< 0.003	0.0015	0.1	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	< 0.005	< 0.5970	< 0.0025	< 0.002	
	6/29/2021 R	NA	NA	430	NA	7.33	150	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/27/2021	0.36	100	300	0.3	6.94	140	960	^+< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	< 0.005	0.528	0.0027	< 0.002	
	11/16/2021	0.44	120	260	0.3	7.08	140	970	< 0.003	0.0016	0.079	^1+< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0069	0.738	< 0.0025	< 0.002	
	3/3/2022	0.43	110	230	0.3	7.04	140	900	< 0.003	0.0015	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	< 0.005	0.514	< 0.0025	< 0.002	
	5/26/2022	0.55	120	320	0.31	6.86	140	1100	< 0.003	0.003	0.082	^+< 0.001	< 0.0005	< 0.005	< 0.001	0.0018	0.015	< 0.0002	< 0.005	< 0.656	0.0029	< 0.002	
	8/31/2022	0.43	110	240	0.32	6.5	130	1100	< 0.003	0.0015	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	< 0.005	< 0.421	< 0.0025	< 0.002	
	11/9/2022	0.39	120	230	0.42	7	120	910	< 0.003	0.0021	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.00093	0.015	< 0.0002	< 0.005	< 0.501	< 0.0025	< 0.002	
	2/28/2023	0.60	160	130	0.35	7.15	260	980	< 0.0030	0.0019	0.080	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00084	0.013	< 0.00020	< 0.005	0.011	< 0.685	0.022	< 0.0020
	3/23/2023 R	0.46	130	NA	NA	NA	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/3/2023	0.50	110	270	0.30	6.96	120	910	< 0.0030	< 0.0010	0.072	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	< 0.0050	< 0.604	0.0027	< 0.0020	
7/20/2023	0.45	110	240	0.30	6.94	120	900	< 0.0030	0.0011	0.070	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	< 0.0050	< 0.607	< 0.0025	< 0.0020		
10/26/2023	0.42	110	220	0.32	6.96	150	910	< 0.0030	0.0012	0.073	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	0.0050	1.16	< 0.0025	< 0.0020		
1/23/2024	0.49	110	210	0.29	6.93	210	1000	^1+< 0.0030	0.0012	0.098	^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	0.0050	0.779	< 0.0025	< 0.0020		
5/22/2024	0.58	110	260	0.34	7.07	180	1100	< 0.0030	< 0.0010	0.072	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	< 0.0050	0.834	< 0.0025	< 0.0020		

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L.
 DNVA - Data not yet available.
 F1 - MS and/or MSD Recovery outside of limits.
 NA - Not analyzed. No confirmation resample required.
 ^+ - Continuing calibration verification is outside acceptance limits, high biased.
 R - Resampled under federal rule.

Table 2.Turbidity Measurement Data, Midwest Generation, LLC, Joliet #29 Generating Station

Well ID	Date	Turbidity (NTU)
MW-03	3/2/2021	0.45
	4/10/2021	22.9
	4/25/2021	2.40
	5/18/2021	2.53
	6/11/2021	2.34
	6/29/2021	2.86
	7/19/2021	37.40
	8/9/2021	2.71
	8/30/2021	5.70
	9/27/2021	10.27
	11/16/2021	0.80
	3/3/2022	0.00
	5/26/2022	4.26
	8/31/2022	4.10
	11/9/2022	32.60
	2/28/2023	6.98
	5/3/2023	3.00
7/20/2023	5.90	
10/26/2023	3.50	
1/23/2024	90.70	
5/22/2024	48.07	
MW-04	3/2/2021	81.89
	4/10/2021	5.96
	4/25/2021	3.02
	5/18/2021	2.52
	6/11/2021	2.80
	6/29/2021	3.34
	7/19/2021	47.4
	8/9/2021	4.13
	8/30/2021	18.3
	9/27/2021	1.76
	11/16/2021	4.20
	3/3/2022	0.00
	5/26/2022	1.23
	8/31/2022	3.78
	11/9/2022	43.50
	2/28/2023	62.10
	5/3/2023	6.30
7/20/2023	6.00	
10/26/2023	1.60	
1/23/2024	80.10	
5/22/2024	24.27	
MW-05	2/25/2021	1.57
	4/10/2021	8.36
	4/25/2021	2.42
	5/17/2021	5.20
	6/11/2021	14.22
	6/29/2021	5.33
	7/19/2021	26.9
	8/9/2021	3.69
	8/27/2021	8.70
	9/27/2021	14.92
	11/16/2021	8.84
	3/3/2022	3.25
	5/26/2022	1.28
	8/31/2022	8.87
	11/9/2022	63.4
	2/28/2023	58.32
	5/3/2023	2.50
7/20/2023	6.00	
10/26/2023	1.10	
1/23/2024	7.12	
5/22/2024	3.23	
MW-10	3/2/2021	26.07
	4/10/2021	7.31
	4/25/2021	5.21
	5/18/2021	3.73
	6/11/2021	6.65
	6/29/2021	9.49
	7/19/2021	14.5
	8/9/2021	10.08
	8/30/2021	9.3
	9/27/2021	16.3
	11/16/2021	5.59
	3/3/2022	2.86
	5/26/2022	2.08
	8/31/2022	2.93
	11/9/2022	19.6
	2/28/2023	17.13
	5/3/2023	2.6
7/20/2023	5.6	
10/26/2023	1.4	
1/23/2024	82.7	
5/22/2024	49.31	

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

Attn: James Thorne
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JOB DESCRIPTION

Joliet #29 CCR

JOB NUMBER

500-250992-1

Eurofins Chicago

Job Notes

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Case Narrative

Client: Midwest Generation EME LLC
Project: Joliet #29 CCR

Job ID: 500-250992-1

Job ID: 500-250992-1

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Job Narrative 500-250992-1

Receipt

The samples were received on 5/23/2024 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.5°C.

Metals

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

General Chemistry

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



Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250992-1	MW-03	Water	05/22/24 09:02	05/23/24 08:40
500-250992-2	MW-04	Water	05/22/24 10:33	05/23/24 08:40
500-250992-3	MW-05	Water	05/22/24 11:53	05/23/24 08:40
500-250992-4	MW-10	Water	05/22/24 13:30	05/23/24 08:40
500-250992-5	Duplicate	Water	05/22/24 00:00	05/23/24 08:40

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Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: MW-03
Date Collected: 05/22/24 09:02
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/06/24 09:10	06/07/24 16:25	1
Arsenic	0.0013		0.0010		mg/L		06/06/24 09:10	06/07/24 16:25	1
Barium	0.099		0.0025		mg/L		06/06/24 09:10	06/07/24 16:25	1
Beryllium	<0.0010		0.0010		mg/L		06/06/24 09:10	06/10/24 14:42	1
Boron	0.49		0.050		mg/L		06/06/24 09:10	06/07/24 16:25	1
Cadmium	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:25	1
Calcium	110		0.20		mg/L		06/06/24 09:10	06/07/24 16:25	1
Chromium	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 16:25	1
Cobalt	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 16:25	1
Lead	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:25	1
Lithium	0.011		0.010		mg/L		06/06/24 09:10	06/10/24 14:42	1
Molybdenum	0.0053		0.0050		mg/L		06/06/24 09:10	06/07/24 16:25	1
Selenium	0.0050		0.0025		mg/L		06/06/24 09:10	06/10/24 14:42	1
Thallium	<0.0020		0.0020		mg/L		06/06/24 09:10	06/07/24 16:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/12/24 14:50	06/13/24 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10		mg/L			05/29/24 00:42	1
Chloride (SM 4500 Cl- E)	220		10		mg/L			05/28/24 14:44	5
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			06/06/24 13:47	1
Sulfate (SM 4500 SO4 E)	170		50		mg/L			06/09/24 14:30	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: MW-04
Date Collected: 05/22/24 10:33
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/06/24 09:10	06/07/24 16:35	1
Arsenic	0.0016		0.0010		mg/L		06/06/24 09:10	06/07/24 16:35	1
Barium	0.077		0.0025		mg/L		06/06/24 09:10	06/07/24 16:35	1
Beryllium	<0.0010		0.0010		mg/L		06/06/24 09:10	06/10/24 14:52	1
Boron	0.39		0.050		mg/L		06/06/24 09:10	06/07/24 16:35	1
Cadmium	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:35	1
Calcium	110		0.20		mg/L		06/06/24 09:10	06/07/24 16:35	1
Chromium	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 16:35	1
Cobalt	0.0091		0.0010		mg/L		06/06/24 09:10	06/07/24 16:35	1
Lead	0.00054		0.00050		mg/L		06/06/24 09:10	06/07/24 16:35	1
Lithium	0.013		0.010		mg/L		06/06/24 09:10	06/10/24 14:52	1
Molybdenum	0.0056		0.0050		mg/L		06/06/24 09:10	06/07/24 16:35	1
Selenium	<0.0025		0.0025		mg/L		06/06/24 09:10	06/10/24 14:52	1
Thallium	<0.0020		0.0020		mg/L		06/06/24 09:10	06/07/24 16:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/12/24 14:50	06/13/24 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	910		10		mg/L			05/29/24 00:48	1
Chloride (SM 4500 Cl- E)	200		10		mg/L			05/28/24 14:45	5
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			06/06/24 13:52	1
Sulfate (SM 4500 SO4 E)	120		25		mg/L			06/09/24 14:30	5

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: MW-05
Date Collected: 05/22/24 11:53
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/06/24 09:10	06/07/24 16:41	1
Arsenic	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 16:41	1
Barium	0.072		0.0025		mg/L		06/06/24 09:10	06/07/24 16:41	1
Beryllium	<0.0010		0.0010		mg/L		06/06/24 09:10	06/10/24 14:54	1
Boron	0.58		0.050		mg/L		06/06/24 09:10	06/07/24 16:41	1
Cadmium	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:41	1
Calcium	110		0.20		mg/L		06/06/24 09:10	06/07/24 16:41	1
Chromium	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 16:41	1
Cobalt	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 16:41	1
Lead	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:41	1
Lithium	0.015		0.010		mg/L		06/06/24 09:10	06/10/24 14:54	1
Molybdenum	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 16:41	1
Selenium	<0.0025		0.0025		mg/L		06/06/24 09:10	06/10/24 14:54	1
Thallium	<0.0020		0.0020		mg/L		06/06/24 09:10	06/07/24 16:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/12/24 14:50	06/13/24 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/29/24 00:50	1
Chloride (SM 4500 Cl- E)	260		20		mg/L			05/28/24 14:45	10
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			06/06/24 14:07	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			06/09/24 14:29	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: MW-10
Date Collected: 05/22/24 13:30
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/06/24 09:10	06/07/24 16:44	1
Arsenic	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 16:44	1
Barium	0.040		0.0025		mg/L		06/06/24 09:10	06/07/24 16:44	1
Beryllium	<0.0010		0.0010		mg/L		06/06/24 09:10	06/10/24 14:57	1
Boron	0.38		0.050		mg/L		06/06/24 09:10	06/07/24 16:44	1
Cadmium	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:44	1
Calcium	110		0.20		mg/L		06/06/24 09:10	06/07/24 16:44	1
Chromium	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 16:44	1
Cobalt	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 16:44	1
Lead	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:44	1
Lithium	0.013		0.010		mg/L		06/06/24 09:10	06/10/24 14:57	1
Molybdenum	0.0067		0.0050		mg/L		06/06/24 09:10	06/07/24 16:44	1
Selenium	<0.0025		0.0025		mg/L		06/06/24 09:10	06/10/24 14:57	1
Thallium	<0.0020		0.0020		mg/L		06/06/24 09:10	06/07/24 16:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/12/24 14:50	06/13/24 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		10		mg/L			05/29/24 00:53	1
Chloride (SM 4500 Cl- E)	180		10		mg/L			05/28/24 14:46	5
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			06/06/24 14:11	1
Sulfate (SM 4500 SO4 E)	120		25		mg/L			06/09/24 14:29	5

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: Duplicate

Lab Sample ID: 500-250992-5

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/23/24 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/06/24 09:10	06/07/24 16:46	1
Arsenic	0.0013		0.0010		mg/L		06/06/24 09:10	06/07/24 16:46	1
Barium	0.099		0.0025		mg/L		06/06/24 09:10	06/07/24 16:46	1
Beryllium	<0.0010		0.0010		mg/L		06/06/24 09:10	06/11/24 15:36	1
Boron	0.50		0.050		mg/L		06/06/24 09:10	06/07/24 16:46	1
Cadmium	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:46	1
Calcium	110		0.20		mg/L		06/06/24 09:10	06/07/24 16:46	1
Chromium	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 16:46	1
Cobalt	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 16:46	1
Lead	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 16:46	1
Lithium	0.010		0.010		mg/L		06/06/24 09:10	06/11/24 15:36	1
Molybdenum	0.0053		0.0050		mg/L		06/06/24 09:10	06/07/24 16:46	1
Selenium	0.0049		0.0025		mg/L		06/06/24 09:10	06/11/24 15:36	1
Thallium	<0.0020		0.0020		mg/L		06/06/24 09:10	06/07/24 16:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/12/24 14:50	06/13/24 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	950		10		mg/L			05/29/24 00:55	1
Chloride (SM 4500 Cl- E)	220		10		mg/L			05/28/24 14:46	5
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			06/06/24 14:16	1
Sulfate (SM 4500 SO4 E)	160		50		mg/L			06/09/24 14:30	10

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

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: Joliet #29 CCR

Job ID: 500-250992-1

Metals

Prep Batch: 771296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total Recoverable	Water	3005A	
500-250992-2	MW-04	Total Recoverable	Water	3005A	
500-250992-3	MW-05	Total Recoverable	Water	3005A	
500-250992-4	MW-10	Total Recoverable	Water	3005A	
500-250992-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-771296/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-771296/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-250992-1 MS	MW-03	Total Recoverable	Water	3005A	
500-250992-1 MSD	MW-03	Total Recoverable	Water	3005A	
500-250992-1 DU	MW-03	Total Recoverable	Water	3005A	

Analysis Batch: 771758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total Recoverable	Water	6020B	771296
500-250992-2	MW-04	Total Recoverable	Water	6020B	771296
500-250992-3	MW-05	Total Recoverable	Water	6020B	771296
500-250992-4	MW-10	Total Recoverable	Water	6020B	771296
500-250992-5	Duplicate	Total Recoverable	Water	6020B	771296
MB 500-771296/1-A	Method Blank	Total Recoverable	Water	6020B	771296
LCS 500-771296/2-A	Lab Control Sample	Total Recoverable	Water	6020B	771296
500-250992-1 MS	MW-03	Total Recoverable	Water	6020B	771296
500-250992-1 MSD	MW-03	Total Recoverable	Water	6020B	771296
500-250992-1 DU	MW-03	Total Recoverable	Water	6020B	771296

Analysis Batch: 771932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total Recoverable	Water	6020B	771296
500-250992-2	MW-04	Total Recoverable	Water	6020B	771296
500-250992-3	MW-05	Total Recoverable	Water	6020B	771296
500-250992-4	MW-10	Total Recoverable	Water	6020B	771296
MB 500-771296/1-A	Method Blank	Total Recoverable	Water	6020B	771296
LCS 500-771296/2-A	Lab Control Sample	Total Recoverable	Water	6020B	771296
500-250992-1 MS	MW-03	Total Recoverable	Water	6020B	771296
500-250992-1 MSD	MW-03	Total Recoverable	Water	6020B	771296
500-250992-1 DU	MW-03	Total Recoverable	Water	6020B	771296

Analysis Batch: 772188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-5	Duplicate	Total Recoverable	Water	6020B	771296

Prep Batch: 772288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	7470A	
500-250992-2	MW-04	Total/NA	Water	7470A	
500-250992-3	MW-05	Total/NA	Water	7470A	
500-250992-4	MW-10	Total/NA	Water	7470A	
500-250992-5	Duplicate	Total/NA	Water	7470A	
MB 500-772288/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-772288/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-250992-5 MS	Duplicate	Total/NA	Water	7470A	
500-250992-5 MSD	Duplicate	Total/NA	Water	7470A	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Metals (Continued)

Prep Batch: 772288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-5 DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 772460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	7470A	772288
500-250992-2	MW-04	Total/NA	Water	7470A	772288
500-250992-3	MW-05	Total/NA	Water	7470A	772288
500-250992-4	MW-10	Total/NA	Water	7470A	772288
500-250992-5	Duplicate	Total/NA	Water	7470A	772288
MB 500-772288/12-A	Method Blank	Total/NA	Water	7470A	772288
LCS 500-772288/13-A	Lab Control Sample	Total/NA	Water	7470A	772288
500-250992-5 MS	Duplicate	Total/NA	Water	7470A	772288
500-250992-5 MSD	Duplicate	Total/NA	Water	7470A	772288
500-250992-5 DU	Duplicate	Total/NA	Water	7470A	772288

General Chemistry

Analysis Batch: 769837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	SM 4500 CI- E	
500-250992-2	MW-04	Total/NA	Water	SM 4500 CI- E	
500-250992-3	MW-05	Total/NA	Water	SM 4500 CI- E	
500-250992-4	MW-10	Total/NA	Water	SM 4500 CI- E	
500-250992-5	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-769837/92	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-769837/93	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 769850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	SM 2540C	
500-250992-2	MW-04	Total/NA	Water	SM 2540C	
500-250992-3	MW-05	Total/NA	Water	SM 2540C	
500-250992-4	MW-10	Total/NA	Water	SM 2540C	
500-250992-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-769850/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-769850/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-250992-1 DU	MW-03	Total/NA	Water	SM 2540C	

Analysis Batch: 771513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	SM 4500 F C	
500-250992-2	MW-04	Total/NA	Water	SM 4500 F C	
500-250992-3	MW-05	Total/NA	Water	SM 4500 F C	
500-250992-4	MW-10	Total/NA	Water	SM 4500 F C	
500-250992-5	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-771513/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-771513/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 771679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

General Chemistry (Continued)

Analysis Batch: 771679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-2	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-250992-3	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-250992-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-250992-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-771679/112	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-771679/113	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-771296/1-A
Matrix: Water
Analysis Batch: 771758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/06/24 09:10	06/07/24 15:51	1
Arsenic	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 15:51	1
Barium	<0.0025		0.0025		mg/L		06/06/24 09:10	06/07/24 15:51	1
Boron	<0.050		0.050		mg/L		06/06/24 09:10	06/07/24 15:51	1
Cadmium	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 15:51	1
Calcium	<0.20		0.20		mg/L		06/06/24 09:10	06/07/24 15:51	1
Chromium	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 15:51	1
Cobalt	<0.0010		0.0010		mg/L		06/06/24 09:10	06/07/24 15:51	1
Lead	<0.00050		0.00050		mg/L		06/06/24 09:10	06/07/24 15:51	1
Molybdenum	<0.0050		0.0050		mg/L		06/06/24 09:10	06/07/24 15:51	1
Thallium	<0.0020		0.0020		mg/L		06/06/24 09:10	06/07/24 15:51	1

Lab Sample ID: MB 500-771296/1-A
Matrix: Water
Analysis Batch: 771932

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		06/06/24 09:10	06/10/24 14:12	1
Lithium	<0.010		0.010		mg/L		06/06/24 09:10	06/10/24 14:12	1
Selenium	<0.0025		0.0025		mg/L		06/06/24 09:10	06/10/24 14:12	1

Lab Sample ID: LCS 500-771296/2-A
Matrix: Water
Analysis Batch: 771758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.500	0.520		mg/L		104	80 - 120
Boron	1.00	1.03		mg/L		103	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Calcium	10.0	9.17		mg/L		92	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Cobalt	0.500	0.543		mg/L		109	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	1.00		mg/L		100	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-771296/2-A
Matrix: Water
Analysis Batch: 771932

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.100	0.105		mg/L		105	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

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

Lab Sample ID: 500-250992-1 MS
Matrix: Water
Analysis Batch: 771758

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limit
Antimony	<0.0030		0.500	0.536		mg/L		107	75 - 125	
Arsenic	0.0013		0.100	0.106		mg/L		105	75 - 125	
Barium	0.099		0.500	0.621		mg/L		104	75 - 125	
Boron	0.49		1.00	1.52		mg/L		103	75 - 125	
Cadmium	<0.00050		0.0500	0.0517		mg/L		103	75 - 125	
Calcium	110		10.0	123	4	mg/L		125	75 - 125	
Chromium	<0.0050		0.200	0.212		mg/L		105	75 - 125	
Cobalt	<0.0010		0.500	0.523		mg/L		105	75 - 125	
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125	
Molybdenum	0.0053		1.00	1.05		mg/L		104	75 - 125	
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	

Lab Sample ID: 500-250992-1 MS
Matrix: Water
Analysis Batch: 771932

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limit
Beryllium	<0.0010		0.0500	0.0516		mg/L		103	75 - 125	
Lithium	0.011		0.100	0.114		mg/L		103	75 - 125	
Selenium	0.0050		0.100	0.111		mg/L		106	75 - 125	

Lab Sample ID: 500-250992-1 MSD
Matrix: Water
Analysis Batch: 771758

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	RPD	Limit	
Antimony	<0.0030		0.500	0.534		mg/L		107	75 - 125	0	20	
Arsenic	0.0013		0.100	0.104		mg/L		103	75 - 125	2	20	
Barium	0.099		0.500	0.619		mg/L		104	75 - 125	0	20	
Boron	0.49		1.00	1.52		mg/L		103	75 - 125	0	20	
Cadmium	<0.00050		0.0500	0.0516		mg/L		103	75 - 125	0	20	
Calcium	110		10.0	120	4	mg/L		94	75 - 125	3	20	
Chromium	<0.0050		0.200	0.207		mg/L		103	75 - 125	3	20	
Cobalt	<0.0010		0.500	0.512		mg/L		102	75 - 125	2	20	
Lead	<0.00050		0.100	0.101		mg/L		101	75 - 125	1	20	
Molybdenum	0.0053		1.00	1.04		mg/L		103	75 - 125	1	20	
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125	1	20	

Lab Sample ID: 500-250992-1 MSD
Matrix: Water
Analysis Batch: 771932

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	RPD	Limit	
Beryllium	<0.0010		0.0500	0.0511		mg/L		102	75 - 125	1	20	
Lithium	0.011		0.100	0.112		mg/L		101	75 - 125	1	20	
Selenium	0.0050		0.100	0.114		mg/L		108	75 - 125	2	20	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

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

Lab Sample ID: 500-250992-1 DU
Matrix: Water
Analysis Batch: 771758

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0013		0.00131		mg/L		4	20
Barium	0.099		0.101		mg/L		2	20
Boron	0.49		0.501		mg/L		2	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	110		113		mg/L		3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.0053		0.00542		mg/L		2	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-250992-1 DU
Matrix: Water
Analysis Batch: 771932

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 771296

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Lithium	0.011		0.0112		mg/L		0.5	20
Selenium	0.0050		0.00649	F5	mg/L		26	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-772288/12-A
Matrix: Water
Analysis Batch: 772460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 772288

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		06/12/24 14:50	06/13/24 08:36	1

Lab Sample ID: LCS 500-772288/13-A
Matrix: Water
Analysis Batch: 772460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 772288

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

Lab Sample ID: 500-250992-5 MS
Matrix: Water
Analysis Batch: 772460

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 772288

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.000956		mg/L		96	75 - 125

Lab Sample ID: 500-250992-5 MSD
Matrix: Water
Analysis Batch: 772460

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 772288

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.00020		0.00100	0.000948		mg/L		95	75 - 125	1	20

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-250992-5 DU
Matrix: Water
Analysis Batch: 772460

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 772288

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

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

Lab Sample ID: MB 500-769850/1
Matrix: Water
Analysis Batch: 769850

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			05/29/24 00:30	1

Lab Sample ID: LCS 500-769850/2
Matrix: Water
Analysis Batch: 769850

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	276		mg/L		110	80 - 120

Lab Sample ID: 500-250992-1 DU
Matrix: Water
Analysis Batch: 769850

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	990		1010		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-769837/92
Matrix: Water
Analysis Batch: 769837

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			05/28/24 14:24	1

Lab Sample ID: LCS 500-769837/93
Matrix: Water
Analysis Batch: 769837

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	22.0		mg/L		110	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-771513/3
Matrix: Water
Analysis Batch: 771513

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/06/24 12:12	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-771513/4
 Matrix: Water
 Analysis Batch: 771513

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	9.64		mg/L		96	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-771679/112
 Matrix: Water
 Analysis Batch: 771679

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


Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/09/24 14:14	1

Lab Sample ID: LCS 500-771679/113
 Matrix: Water
 Analysis Batch: 771679

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	20.8		mg/L		104	88 - 123

Chain of Custody Record

Client Information Client Contact: Patrick Allenstein Company: KPRG and Associates, Inc Address: 14665 West Lisbon Road, Suite 1A City: Brookfield State Zip: WI, 53005 Phone: Email: patricka@kprginc.com Project Name: Joliet #29 CCR/ Event Desc. Quarterly MWG Joliet #29 CCR Site: Illinois		Sampler: IAN JOHN HOVISON Phone: 630 290 6850 PWSID: Due Date Requested: TAT Requested (days): Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502153835 WO #: Project #: 50011568 SSOW#: Lab PM: Mockler, Diana J E-Mail: Diana Mockler@et eurofinsus.com Carrier Tracking No(s): COC No: 500-123086-45941 1 State of Origin: Page: Page 1 of 1 Job #: 500-250992		Analysis Ref  500-250992 COC 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 Y Trizma Z other (specify) Other: 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)		Total Number of Containers	
						Preservation Code.				<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
1	MW-03	5-22-24	09:02	G	Water	N	N	X	X	X					5
2	MW-04	5-22-24	10:33	G	Water	N	N	X	X	X					5
3	MW-05	5-22-24	11:53	G	Water	N	N	X	X	X					5
4	MW-10	5-22-24	13:30	G	Water	N	N	X	X	X					5
5	Duplicate	5-22-24	—	G	Water	N	N	X	X	X					5
								Water							



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: 	Date/Time: 5-25-24 08:40	Company: KPRG	Received by: 	Date/Time: 5/23/24 0840	Company: KPRG
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____

Custody Seals Intact. Yes No Custody Seal No: _____
Cooler Temperature(s) °C and Other Remarks: 1.4+1.5, 0.9+1.0



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250992-1

Login Number: 250992

List Number: 1

Creator: Hernandez, Stephanie

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	1.5,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: MW-03
Date Collected: 05/22/24 09:02
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771758	RN	EET CHI	06/07/24 16:25
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771932	RN	EET CHI	06/10/24 14:42
Total/NA	Prep	7470A			772288	MJG	EET CHI	06/12/24 14:50 - 06/12/24 16:50 ¹
Total/NA	Analysis	7470A		1	772460	MJG	EET CHI	06/13/24 08:49
Total/NA	Analysis	SM 2540C		1	769850	CLB	EET CHI	05/29/24 00:42
Total/NA	Analysis	SM 4500 CI- E		5	769837	TR	EET CHI	05/28/24 14:44
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 13:47
Total/NA	Analysis	SM 4500 SO4 E		10	771679	TR	EET CHI	06/09/24 14:30

Client Sample ID: MW-04
Date Collected: 05/22/24 10:33
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771758	RN	EET CHI	06/07/24 16:35
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771932	RN	EET CHI	06/10/24 14:52
Total/NA	Prep	7470A			772288	MJG	EET CHI	06/12/24 14:50 - 06/12/24 16:50 ¹
Total/NA	Analysis	7470A		1	772460	MJG	EET CHI	06/13/24 08:51
Total/NA	Analysis	SM 2540C		1	769850	CLB	EET CHI	05/29/24 00:48
Total/NA	Analysis	SM 4500 CI- E		5	769837	TR	EET CHI	05/28/24 14:45
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 13:52
Total/NA	Analysis	SM 4500 SO4 E		5	771679	TR	EET CHI	06/09/24 14:30

Client Sample ID: MW-05
Date Collected: 05/22/24 11:53
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771758	RN	EET CHI	06/07/24 16:41
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771932	RN	EET CHI	06/10/24 14:54
Total/NA	Prep	7470A			772288	MJG	EET CHI	06/12/24 14:50 - 06/12/24 16:50 ¹
Total/NA	Analysis	7470A		1	772460	MJG	EET CHI	06/13/24 08:53
Total/NA	Analysis	SM 2540C		1	769850	CLB	EET CHI	05/29/24 00:50
Total/NA	Analysis	SM 4500 CI- E		10	769837	TR	EET CHI	05/28/24 14:45
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 14:07
Total/NA	Analysis	SM 4500 SO4 E		10	771679	TR	EET CHI	06/09/24 14:29

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR

Job ID: 500-250992-1

Client Sample ID: MW-10

Lab Sample ID: 500-250992-4

Date Collected: 05/22/24 13:30

Matrix: Water

Date Received: 05/23/24 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771758	RN	EET CHI	06/07/24 16:44
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771932	RN	EET CHI	06/10/24 14:57
Total/NA	Prep	7470A			772288	MJG	EET CHI	06/12/24 14:50 - 06/12/24 16:50 ¹
Total/NA	Analysis	7470A		1	772460	MJG	EET CHI	06/13/24 09:00
Total/NA	Analysis	SM 2540C		1	769850	CLB	EET CHI	05/29/24 00:53
Total/NA	Analysis	SM 4500 CI- E		5	769837	TR	EET CHI	05/28/24 14:46
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 14:11
Total/NA	Analysis	SM 4500 SO4 E		5	771679	TR	EET CHI	06/09/24 14:29

Client Sample ID: Duplicate

Lab Sample ID: 500-250992-5

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/23/24 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	772188	RN	EET CHI	06/11/24 15:36
Total Recoverable	Prep	3005A			771296	RN	EET CHI	06/06/24 09:10 - 06/06/24 15:10 ¹
Total Recoverable	Analysis	6020B		1	771758	RN	EET CHI	06/07/24 16:46
Total/NA	Prep	7470A			772288	MJG	EET CHI	06/12/24 14:50 - 06/12/24 16:50 ¹
Total/NA	Analysis	7470A		1	772460	MJG	EET CHI	06/13/24 09:02
Total/NA	Analysis	SM 2540C		1	769850	CLB	EET CHI	05/29/24 00:55
Total/NA	Analysis	SM 4500 CI- E		5	769837	TR	EET CHI	05/28/24 14:46
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 14:16
Total/NA	Analysis	SM 4500 SO4 E		10	771679	TR	EET CHI	06/09/24 14:30

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

Laboratory References:

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



ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/28/2024 2:51:31 PM

JOB DESCRIPTION

Joliet #29 CCR (RAD)

JOB NUMBER

500-250992-2

Eurofins Chicago

Job Notes

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

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Authorization



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



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Case Narrative

Client: Midwest Generation EME LLC
Project: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Job ID: 500-250992-2

Eurofins Chicago

Job Narrative 500-250992-2

Receipt

The samples were received on 5/23/2024 8:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.5°C.

Gas Flow Proportional Counter

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

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Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

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: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250992-1	MW-03	Water	05/22/24 09:02	05/23/24 08:40
500-250992-2	MW-04	Water	05/22/24 10:33	05/23/24 08:40
500-250992-3	MW-05	Water	05/22/24 11:53	05/23/24 08:40
500-250992-4	MW-10	Water	05/22/24 13:30	05/23/24 08:40
500-250992-5	Duplicate	Water	05/22/24 00:00	05/23/24 08:40

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Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: MW-03

Lab Sample ID: 500-250992-1

Date Collected: 05/22/24 09:02

Matrix: Water

Date Received: 05/23/24 08:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0820	U	0.113	0.113	1.00	0.191	pCi/L	05/30/24 09:05	06/26/24 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		30 - 110					05/30/24 09:05	06/26/24 14:17	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.472	U	0.384	0.386	1.00	0.594	pCi/L	05/30/24 09:09	06/21/24 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		30 - 110					05/30/24 09:09	06/21/24 12:50	1
Y Carrier	95.0		30 - 110					05/30/24 09:09	06/21/24 12:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.554	U	0.400	0.402	5.00	0.594	pCi/L		06/28/24 13:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: MW-04

Lab Sample ID: 500-250992-2

Date Collected: 05/22/24 10:33

Matrix: Water

Date Received: 05/23/24 08:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.180		0.105	0.106	1.00	0.137	pCi/L	05/30/24 09:05	06/26/24 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					05/30/24 09:05	06/26/24 14:17	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.407	U	0.329	0.331	1.00	0.510	pCi/L	05/30/24 09:09	06/21/24 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					05/30/24 09:09	06/21/24 12:50	1
Y Carrier	96.8		30 - 110					05/30/24 09:09	06/21/24 12:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.586		0.345	0.348	5.00	0.510	pCi/L		06/28/24 13:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: MW-05

Lab Sample ID: 500-250992-3

Date Collected: 05/22/24 11:53

Matrix: Water

Date Received: 05/23/24 08:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.128	U	0.0961	0.0968	1.00	0.135	pCi/L	05/30/24 09:05	06/26/24 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					05/30/24 09:05	06/26/24 14:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.707		0.450	0.455	1.00	0.674	pCi/L	05/30/24 09:09	06/21/24 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					05/30/24 09:09	06/21/24 12:50	1
Y Carrier	97.9		30 - 110					05/30/24 09:09	06/21/24 12:50	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.834		0.460	0.465	5.00	0.674	pCi/L		06/28/24 13:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: MW-10
Date Collected: 05/22/24 13:30
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139		0.0953	0.0961	1.00	0.128	pCi/L	05/30/24 09:05	06/26/24 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		30 - 110					05/30/24 09:05	06/26/24 14:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.222	U	0.310	0.311	1.00	0.633	pCi/L	05/30/24 09:09	06/21/24 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		30 - 110					05/30/24 09:09	06/21/24 12:51	1
Y Carrier	98.7		30 - 110					05/30/24 09:09	06/21/24 12:51	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0838	U	0.324	0.326	5.00	0.633	pCi/L		06/28/24 13:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: Duplicate

Lab Sample ID: 500-250992-5

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/23/24 08:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150		0.0964	0.0974	1.00	0.128	pCi/L	05/30/24 09:05	06/26/24 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					05/30/24 09:05	06/26/24 14:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.739		0.381	0.387	1.00	0.533	pCi/L	05/30/24 09:09	06/21/24 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					05/30/24 09:09	06/21/24 12:51	1
Y Carrier	97.2		30 - 110					05/30/24 09:09	06/21/24 12:51	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.889		0.393	0.399	5.00	0.533	pCi/L		06/28/24 13:08	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Rad

Prep Batch: 663926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	PrecSep-21	
500-250992-2	MW-04	Total/NA	Water	PrecSep-21	
500-250992-3	MW-05	Total/NA	Water	PrecSep-21	
500-250992-4	MW-10	Total/NA	Water	PrecSep-21	
500-250992-5	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-663926/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-663926/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 663929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250992-1	MW-03	Total/NA	Water	PrecSep_0	
500-250992-2	MW-04	Total/NA	Water	PrecSep_0	
500-250992-3	MW-05	Total/NA	Water	PrecSep_0	
500-250992-4	MW-10	Total/NA	Water	PrecSep_0	
500-250992-5	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-663929/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-663929/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-663926/1-A
Matrix: Water
Analysis Batch: 668084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 663926

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05886	U	0.0685	0.0687	1.00	0.110	pCi/L	05/30/24 09:05	06/26/24 10:08	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	97.0		30 - 110		05/30/24 09:05	06/26/24 10:08	1			

Lab Sample ID: LCS 160-663926/2-A
Matrix: Water
Analysis Batch: 668084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663926

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.528		1.05	1.00	0.120	pCi/L	84	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	85.8		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-663929/1-A
Matrix: Water
Analysis Batch: 667438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 663929

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.08492	U	0.351	0.352	1.00	0.642	pCi/L	05/30/24 09:09	06/21/24 16:10	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	97.0		30 - 110		05/30/24 09:09	06/21/24 16:10	1			
Y Carrier	92.3		30 - 110		05/30/24 09:09	06/21/24 16:10	1			

Lab Sample ID: LCS 160-663929/2-A
Matrix: Water
Analysis Batch: 667438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663929




Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.83	9.088		1.44	1.00	0.794	pCi/L	103	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	85.8		30 - 110						
Y Carrier	95.0		30 - 110						

Eurofins Chicago

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

Chain of Custody Record

eurofins | Environment Testing

Client Information		Sampler: <u>IAN JOHN HOUJESON</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-123086-45941 1			
Client Contact: Patrick Allenstein		Phone: <u>890 290 6850</u>		E-Mail: Diana Mockler@et.eurofins.com		State of Origin:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc		PWSID:		Analysis Ref:  500-250992 COC					Job #: <u>500-250992</u>		
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested									
City: Brookfield		TAT Requested (days)									
State Zip: WI, 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone:		PO #: 4502153835									
Email: patricka@kprginc.com		WO #:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E 903.0, 904.0		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, Y - Trizma Z - other (specify)			
Project Name: Joliet #29 CCR/ Event Desc. Quarterly MWG Joliet #29 CCR		Project #: 50011568						Special Instructions/Note:			
Site: Illinois		SSOW#:									
Sample Identification		Sample Date						Sample Time		Sample Type (C=comp, G=grab)	
								Preservation Code			
1 MW-03		5-22-24		09:02		G		Water			
2 MW-04		5-22-24		10:33		G		Water			
3 MW-05		5-22-24		11:53		G		Water			
4 MW-10		5-22-24		13:30		G		Water			
5 Duplicate		5-22-24		-		G		Water			
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: 		Date/Time: 5-25-24 08:40		Company: KPRG		Received by: 		Date/Time: 5/23/24 0840		Company: KPRG	
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: <u>1.4 to 1.5, 0.9 to 1.0</u>							

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250992-2

Login Number: 250992

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	1.5,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250992-2

Login Number: 250992

List Number: 2

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 05/24/24 12:37 PM

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

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: MW-03
Date Collected: 05/22/24 09:02
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			663926	MLT	EET SL	05/30/24 09:05
Total/NA	Analysis	903.0		1	668008	FLC	EET SL	06/26/24 14:17
Total/NA	Prep	PrecSep_0			663929	MLT	EET SL	05/30/24 09:09
Total/NA	Analysis	904.0		1	667323	CMM	EET SL	06/21/24 12:50
Total/NA	Analysis	Ra226_Ra228		1	668567	CAH	EET SL	06/28/24 13:08

Client Sample ID: MW-04
Date Collected: 05/22/24 10:33
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			663926	MLT	EET SL	05/30/24 09:05
Total/NA	Analysis	903.0		1	668008	FLC	EET SL	06/26/24 14:17
Total/NA	Prep	PrecSep_0			663929	MLT	EET SL	05/30/24 09:09
Total/NA	Analysis	904.0		1	667323	CMM	EET SL	06/21/24 12:50
Total/NA	Analysis	Ra226_Ra228		1	668567	CAH	EET SL	06/28/24 13:08

Client Sample ID: MW-05
Date Collected: 05/22/24 11:53
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			663926	MLT	EET SL	05/30/24 09:05
Total/NA	Analysis	903.0		1	668008	FLC	EET SL	06/26/24 14:18
Total/NA	Prep	PrecSep_0			663929	MLT	EET SL	05/30/24 09:09
Total/NA	Analysis	904.0		1	667323	CMM	EET SL	06/21/24 12:50
Total/NA	Analysis	Ra226_Ra228		1	668567	CAH	EET SL	06/28/24 13:08

Client Sample ID: MW-10
Date Collected: 05/22/24 13:30
Date Received: 05/23/24 08:40

Lab Sample ID: 500-250992-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			663926	MLT	EET SL	05/30/24 09:05
Total/NA	Analysis	903.0		1	668008	FLC	EET SL	06/26/24 14:18
Total/NA	Prep	PrecSep_0			663929	MLT	EET SL	05/30/24 09:09
Total/NA	Analysis	904.0		1	667323	CMM	EET SL	06/21/24 12:51
Total/NA	Analysis	Ra226_Ra228		1	668567	CAH	EET SL	06/28/24 13:08

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Client Sample ID: Duplicate

Lab Sample ID: 500-250992-5

Date Collected: 05/22/24 00:00

Matrix: Water

Date Received: 05/23/24 08:40

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			663926	MLT	EET SL	05/30/24 09:05
Total/NA	Analysis	903.0		1	668008	FLC	EET SL	06/26/24 14:18
Total/NA	Prep	PrecSep_0			663929	MLT	EET SL	05/30/24 09:09
Total/NA	Analysis	904.0		1	667323	CMM	EET SL	06/21/24 12:51
Total/NA	Analysis	Ra226_Ra228		1	668567	CAH	EET SL	06/28/24 13:08

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: Joliet #29 CCR (RAD)

Job ID: 500-250992-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-250992-1	MW-03	75.8
500-250992-2	MW-04	89.0
500-250992-3	MW-05	76.3
500-250992-4	MW-10	80.0
500-250992-5	Duplicate	87.5
LCS 160-663926/2-A	Lab Control Sample	85.8
MB 160-663926/1-A	Method Blank	97.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-250992-1	MW-03	75.8	95.0
500-250992-2	MW-04	89.0	96.8
500-250992-3	MW-05	76.3	97.9
500-250992-4	MW-10	80.0	98.7
500-250992-5	Duplicate	87.5	97.2
LCS 160-663929/2-A	Lab Control Sample	85.8	95.0
MB 160-663929/1-A	Method Blank	97.0	92.3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	5-22-24
Sample Name	MW-03	Start Time	08:47	
Condition of Well	Good			
Water Level	32.52	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	1.75 Qrs	W L at Sample Time	32.53	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR + CCR DUP	Sample Time	09:02	
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)
08:50	32.52	7.52	15.4	1.659	8.03	150.4	3.93
08:53	32.53	7.42	15.8	1.644	8.23	145.9	4.74
08:56	32.53	7.17	16.2	1.681	7.67	145.3	26.23
08:59	32.53	7.09	15.7	1.685	7.25	145.2	46.42
09:02	32.53	7.07	15.6	1.680	7.02	145.1	48.07

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	5-22-24
Sample Name	MW-04	Start Time	10:18	
Condition of Well	GOOD			
Water Level	32.81	Total Depth	_____	
Well Diameter	PVC - 2 inch	Volume in Well	_____	
Method of Purge	Low-Flow	Purge Characteristics	ODORLESS TASTE ODORLESS TURB	
Volume Removed	2.0 QTS	W L at Sample Time	32.82	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	10:33	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:21	32.82	7.40	21.9	1.669	7.07	133.2	134.12
10:24	32.82	7.37	20.7	1.673	7.43	134.1	12.13
10:27	32.82	7.21	16.6	1.657	7.25	134.8	23.53
10:30	32.82	7.14	15.1	1.615	6.80	136.0	22.60
10:33	32.82	7.12	15.0	1.602	6.68	136.7	24.27

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	5-22-24
Sample Name	MW-05	Start Time	11:35	
Condition of Well	GOOD			
Water Level	33.48	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	1.75 GRS.	W L at Sample Time	33.49	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	11:53	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:38	33.49	7.39	15.4	1.639	7.56	133.8	7.54
* → 11:41	33.49	7.18	15.6	1.685	6.56	137.0	4.64
11:47	—	7.08	19.2	1.775	5.48	138.9	3.45
11:50	—	7.07	19.5	1.785	5.42	138.9	3.38
11:53	33.49	7.07	19.5	1.787	5.43	138.8	3.23

SAMPLING NOTES: * HAD TO PAUSE PROCESS / ON SITE VISIT FROM PHILIP NRG.

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	5-22-24
Sample Name	MW-10	Start Time	13:18	
Condition of Well	GOOD			
Water Level	33.65	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	1.5 GGS	W L at Sample Time	33.67	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	13:30	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:21	33.68	7.30	17.2	1.775	7.61	119.3	20.93
13:24	33.68	7.23	16.3	1.652	7.60	122.1	38.19
13:27	33.67	7.19	16.0	1.594	7.35	124.4	52.11
13:30	33.67	7.17	15.9	1.571	7.27	125.7	49.31

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

