

DATA SUMMARY POSTING

Station: Midwest Generation Joliet #9 Generating Station

Regulated Unit(s): Lincoln Stone Quarry (IEPA ID No. W1970450046-01)

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 1st quarter 2023 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 - Midwest Generation, LLC, Joliet #9 Generating Station

Well ID	Date	Turbidity (NTU)
G45S	3/12/2021	0.87
	4/5/2021	0.33
	4/23/2021	0.54
	5/18/2021	0.36
	6/8/2021	0.64
	7/2/2021	1.4
	8/12/2021	0.36
	9/2/2021	0.46
	12/16/2021	0.89
	3/16/2022	0.98
	6/10/2022	0.03
	9/26/2022	0.29
12/21/2022	2.04	
3/23/2023	1.13	
T03S	3/15/2021	2.42
	4/1/2021	0.44
	4/22/2021	94
	5/17/2021	0.47
	6/7/2021	0.47
	7/1/2021	0.3
	8/12/2021	0.34
	9/1/2021	0.67
	12/9/2021	0.56
	3/14/2022	0.65
	6/13/2022	-0.1
	9/29/2022	0.53
	12/21/2022	2.03
3/20/2023	1.19	
R08S	3/12/2021	0.19
	4/1/2021	0.46
	4/23/2021	0.34
	5/18/2021	0.24
	6/8/2021	0.2
	7/1/2021	0.17
	8/12/2021	0.58
	9/2/2021	0.42
	12/14/2021	0.57
	3/11/2022	0.52
	6/7/2022	0.23
	9/19/2022	0.36
	12/19/2022	1.01
3/22/2023	1.41	
G20S	3/12/2021	0.32
	4/1/2021	0.29
	4/22/2021	0.14
	5/18/2021	0.63
	6/8/2021	0.2
	7/1/2021	0.29
	8/12/2021	0.32
	9/2/2021	0.48
	12/10/2021	1.28
	3/15/2022	0.46
	6/7/2022	0.5
	9/19/2022	2.47
	12/19/2022	2.61
3/14/2023	0.39	
G30S	3/12/2021	0.05
	4/2/2021	0.14
	4/23/2021	0.25
	5/18/2021	0.43
	6/8/2021	0.61
	7/2/2021	0.48
	8/13/2021	0.31
	9/2/2021	0.48
	12/15/2021	0.09
	3/15/2022	0.45
	6/10/2022	0.16
	9/28/2022	0.61
	12/19/2022	1.04
3/17/2023	2.43	

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Joliet #9 Generating Station

Well ID	Date	Turbidity (NTU)
R32S	3/12/2021	0.42
	4/5/2021	0.81
	4/23/2021	1.23
	5/18/2021	1.78
	6/8/2021	1.14
	7/2/2021	0.42
	8/13/2021	0.57
	9/30/2021	0.39
	12/15/2021	0.84
	3/16/2022	1.31
	6/10/2022	-0.1
	9/26/2022	0.66
12/16/2022	1.53	
3/23/2023	1.59	
G44S	3/15/2021	3.66
	4/5/2021	3.89
	4/23/2021	3.31
	5/18/2021	1.41
	6/8/2021	1.42
	7/2/2021	1.37
	8/12/2021	1.56
	9/2/2021	1.38
	12/16/2021	1.29
	3/15/2022	1.09
	6/9/2022	0.78
	9/26/2022	0.86
	12/21/2022	11.7
3/15/2023	1.13	
G46S	3/15/2021	18.4
	4/5/2021	106.5
	4/23/2021	59.2
	5/18/2021	181
	6/8/2021	3140
	7/1/2021	11.6
	8/12/2021	112
	9/2/2021	43.3
	12/15/2021	73.1
	3/11/2022	99.3
	6/9/2022	6.63
	9/26/2022	34.4
	12/20/2022	77.9
3/22/2023	88.61	
G47S	3/15/2021	0.12
	4/5/2021	0.1
	4/22/2021	0.16
	5/18/2021	0.14
	6/8/2021	0.53
	7/1/2021	0.3
	8/13/2021	0.18
	9/2/2021	0.68
	12/16/2021	0.59
	3/16/2022	0.26
	6/9/2022	-0.11
	9/26/2022	0.35
	12/21/2022	0.76
3/23/2023	1.12	
G48S	3/15/2021	0.47
	4/5/2021	0.14
	4/22/2021	0.22
	5/18/2021	0.44
	6/8/2021	0.24
	7/1/2021	0.91
	8/13/2021	0.23
	9/2/2021	0.63
	12/16/2021	0.62
	3/16/2022	0.31
	6/9/2022	0.22
	9/26/2022	0.96
	12/21/2022	3.73
3/23/2023	3.13	

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

Attn: John Niedzwiecki
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

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JOB DESCRIPTION

Joliet #9 (Quarry) CCR 1Q23

JOB NUMBER

500-230703-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Job ID: 500-230703-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-230703-1

Comments

No additional comments.

Receipt

The samples were received on 3/14/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.5° C, 2.9° C, 3.3° C, 3.5° C, 4.2° C, 4.4° C and 5.1° C.

Metals

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-703655. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-703899. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-703899. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-704131. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-704817. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-704148 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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
Field Sampling	Field Sampling	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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 #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-230703-1	G20S	Water	03/14/23 11:28	03/14/23 15:52
500-230703-2	G33S	Water	03/15/23 09:35	03/15/23 14:00
500-230703-3	G44S	Water	03/15/23 10:50	03/15/23 14:00
500-230703-4	G31S	Water	03/15/23 12:57	03/15/23 14:00
500-230703-5	G30S	GW	03/17/23 09:26	03/17/23 12:00
500-230703-6	T02S	Water	03/20/23 09:32	03/20/23 15:12
500-230703-7	T08S	Water	03/20/23 11:20	03/20/23 15:12
500-230703-8	T03S	Water	03/20/23 13:47	03/20/23 15:12
500-230703-9	T01S	Water	03/21/23 09:52	03/21/23 15:45
500-230703-10	T09S	Water	03/21/23 11:58	03/21/23 15:45
500-230703-11	T06S	Water	03/21/23 13:45	03/21/23 15:45
500-230703-12	T05S	Water	03/22/23 09:27	03/22/23 14:45
500-230703-13	R08S	Water	03/22/23 12:25	03/22/23 14:45
500-230703-14	R08S Dup	Water	03/22/23 12:25	03/22/23 14:45
500-230703-15	G46S	Water	03/22/23 13:30	03/22/23 14:45
500-230703-16	G48S	Water	03/23/23 10:13	03/23/23 14:43
500-230703-17	G47S	Water	03/23/23 11:22	03/23/23 14:43
500-230703-18	G45S	Water	03/23/23 12:16	03/23/23 14:43
500-230703-19	R32S	Water	03/23/23 13:34	03/23/23 14:43

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G20S

Lab Sample ID: 500-230703-1

Date Collected: 03/14/23 11:28

Matrix: Water

Date Received: 03/14/23 15:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/16/23 08:33	03/16/23 18:20	1
Arsenic	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:20	1
Barium	0.050		0.0025		mg/L		03/16/23 08:33	03/16/23 18:20	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 16:57	1
Boron	1.3		0.050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Calcium	62		0.20		mg/L		03/16/23 08:33	03/16/23 18:20	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Cobalt	0.0015		0.0010		mg/L		03/16/23 08:33	03/16/23 18:20	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Lithium	0.042		0.010		mg/L		03/16/23 08:33	03/16/23 18:20	1
Molybdenum	0.010		0.0050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 18:20	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 18:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	410		10		mg/L			03/15/23 03:07	1
Chloride (SM 4500 Cl- E)	16		2.0		mg/L			03/16/23 09:46	1
Fluoride (SM 4500 F C)	0.75		0.10		mg/L			03/15/23 10:44	1
Sulfate (SM 4500 SO4 E)	64		25		mg/L			03/17/23 09:51	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	52.49				ft			03/14/23 11:28	1
Depth to Water (ft from MP)	55.27				ft			03/14/23 11:28	1
Elevation of well (ft from MP)	580.87				ft			03/14/23 11:28	1
Field pH	7.53				SU			03/14/23 11:28	1
Field Temperature	49.6				Degrees F			03/14/23 11:28	1
Field Turbidity	0.39				NTU			03/14/23 11:28	1
Ground Water Elevation	525.60				ft			03/14/23 11:28	1
Specific Conductance	659				umhos/cm			03/14/23 11:28	1
Well bottom elevation	442.28				ft			03/14/23 11:28	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G33S

Lab Sample ID: 500-230703-2

Date Collected: 03/15/23 09:35

Matrix: Water

Date Received: 03/15/23 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/16/23 08:33	03/16/23 18:23	1
Arsenic	0.0018		0.0010		mg/L		03/16/23 08:33	03/16/23 18:23	1
Barium	0.060		0.0025		mg/L		03/16/23 08:33	03/16/23 18:23	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:00	1
Boron	0.72		0.050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Calcium	54		0.20		mg/L		03/16/23 08:33	03/16/23 18:23	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:23	1
Lead	0.0013		0.00050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Lithium	0.031		0.010		mg/L		03/16/23 08:33	03/16/23 18:23	1
Molybdenum	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 18:23	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 18:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		10		mg/L			03/20/23 05:41	1
Chloride (SM 4500 Cl- E)	13		2.0		mg/L			03/16/23 09:50	1
Fluoride (SM 4500 F C)	0.56		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	68		25		mg/L			03/17/23 09:52	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	28.33				ft			03/15/23 09:35	1
Depth to Water (ft from MP)	30.06				ft			03/15/23 09:35	1
Elevation of well (ft from MP)	535.67				ft			03/15/23 09:35	1
Field pH	7.42				SU			03/15/23 09:35	1
Field Temperature	52.0				Degrees F			03/15/23 09:35	1
Field Turbidity	7.68				NTU			03/15/23 09:35	1
Ground Water Elevation	505.61				ft			03/15/23 09:35	1
Specific Conductance	639				umhos/cm			03/15/23 09:35	1
Well bottom elevation	452.72				ft			03/15/23 09:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G44S

Lab Sample ID: 500-230703-3

Date Collected: 03/15/23 10:50

Matrix: Water

Date Received: 03/15/23 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/16/23 08:33	03/16/23 18:27	1
Arsenic	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:27	1
Barium	0.067		0.0025		mg/L		03/16/23 08:33	03/16/23 18:27	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:04	1
Boron	1.9		0.050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Calcium	130		0.20		mg/L		03/16/23 08:33	03/16/23 18:27	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:27	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Lithium	0.026		0.010		mg/L		03/16/23 08:33	03/16/23 18:27	1
Molybdenum	0.26		0.0050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 18:27	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 18:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	720		10		mg/L			03/22/23 06:05	1
Chloride (SM 4500 Cl- E)	66		10		mg/L			03/16/23 09:51	5
Fluoride (SM 4500 F C)	0.20		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	190		50		mg/L			03/17/23 09:53	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	76.34				ft			03/15/23 10:50	1
Depth to Water (ft from MP)	78.52				ft			03/15/23 10:50	1
Elevation of well (ft from MP)	586.68				ft			03/15/23 10:50	1
Field pH	7.10				SU			03/15/23 10:50	1
Field Temperature	51.8				Degrees F			03/15/23 10:50	1
Field Turbidity	1.13				NTU			03/15/23 10:50	1
Ground Water Elevation	508.16				ft			03/15/23 10:50	1
Specific Conductance	1053				umhos/cm			03/15/23 10:50	1
Well bottom elevation	455.11				ft			03/15/23 10:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G31S

Lab Sample ID: 500-230703-4

Date Collected: 03/15/23 12:57

Matrix: Water

Date Received: 03/15/23 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/16/23 08:33	03/17/23 17:07	1
Arsenic	0.0036		0.0010		mg/L		03/16/23 08:33	03/17/23 17:07	1
Barium	0.048		0.0025		mg/L		03/16/23 08:33	03/17/23 17:07	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:07	1
Boron	4.6		0.50		mg/L		03/16/23 08:33	03/22/23 12:25	10
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/17/23 17:07	1
Calcium	150		0.20		mg/L		03/16/23 08:33	03/17/23 17:07	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/17/23 17:07	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:07	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/17/23 17:07	1
Lithium	0.093		0.010		mg/L		03/16/23 08:33	03/17/23 17:07	1
Molybdenum	0.75		0.0050		mg/L		03/16/23 08:33	03/17/23 17:07	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/17/23 17:07	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/17/23 17:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			03/22/23 06:12	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			03/16/23 09:51	10
Fluoride (SM 4500 F C)	0.25		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	420		250		mg/L			03/17/23 09:53	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	23.13				ft			03/15/23 12:57	1
Depth to Water (ft from MP)	25.71				ft			03/15/23 12:57	1
Elevation of well (ft from MP)	535.73				ft			03/15/23 12:57	1
Field pH	7.39				SU			03/15/23 12:57	1
Field Temperature	55.2				Degrees F			03/15/23 12:57	1
Field Turbidity	0.79				NTU			03/15/23 12:57	1
Ground Water Elevation	510.02				ft			03/15/23 12:57	1
Specific Conductance	1492				umhos/cm			03/15/23 12:57	1
Well bottom elevation	453.36				ft			03/15/23 12:57	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G30S

Lab Sample ID: 500-230703-5

Date Collected: 03/17/23 09:26

Matrix: GW

Date Received: 03/17/23 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/20/23 08:05	03/22/23 20:22	1
Arsenic	0.0022		0.0010		mg/L		03/20/23 08:05	03/22/23 20:22	1
Barium	0.046		0.0025		mg/L		03/20/23 08:05	03/22/23 20:22	1
Beryllium	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:22	1
Boron	5.2		0.50		mg/L		03/20/23 08:05	03/23/23 13:29	10
Cadmium	<0.00050		0.00050		mg/L		03/20/23 08:05	03/22/23 20:22	1
Calcium	63		0.20		mg/L		03/20/23 08:05	03/22/23 20:22	1
Chromium	<0.0050		0.0050		mg/L		03/20/23 08:05	03/22/23 20:22	1
Cobalt	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:22	1
Lead	0.00051		0.00050		mg/L		03/20/23 08:05	03/22/23 20:22	1
Lithium	0.022		0.010		mg/L		03/20/23 08:05	03/22/23 20:22	1
Molybdenum	0.010		0.0050		mg/L		03/20/23 08:05	03/22/23 20:22	1
Selenium	<0.0025		0.0025		mg/L		03/20/23 08:05	03/22/23 20:22	1
Thallium	<0.0020		0.0020		mg/L		03/20/23 08:05	03/22/23 20:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/20/23 10:40	03/21/23 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			03/22/23 06:18	1
Chloride (SM 4500 Cl- E)	200		20		mg/L			03/22/23 10:20	10
Fluoride (SM 4500 F C)	0.93		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	470		250		mg/L			03/22/23 11:55	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	-0.22				ft			03/17/23 09:26	1
Depth to Water (ft from MP)	2.09				ft			03/17/23 09:26	1
Elevation of well (ft from MP)	524.86				ft			03/17/23 09:26	1
Field pH	7.82				SU			03/17/23 09:26	1
Field Temperature	43.2				Degrees F			03/17/23 09:26	1
Field Turbidity	2.43				NTU			03/17/23 09:26	1
Ground Water Elevation	522.77				ft			03/17/23 09:26	1
Specific Conductance	1760				umhos/cm			03/17/23 09:26	1
Well bottom elevation	462.58				ft			03/17/23 09:26	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T02S

Lab Sample ID: 500-230703-6

Date Collected: 03/20/23 09:32

Matrix: Water

Date Received: 03/20/23 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 19:20	1
Arsenic	0.0063		0.0010		mg/L		03/22/23 08:37	03/22/23 19:20	1
Barium	0.12		0.0025		mg/L		03/22/23 08:37	03/22/23 19:20	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:20	1
Boron	5.8		1.0		mg/L		03/22/23 08:37	03/23/23 13:46	20
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:20	1
Calcium	82		0.20		mg/L		03/22/23 08:37	03/22/23 19:20	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:20	1
Cobalt	0.0021		0.0010		mg/L		03/22/23 08:37	03/22/23 19:20	1
Lead	0.0040		0.00050		mg/L		03/22/23 08:37	03/22/23 19:20	1
Lithium	0.035		0.010		mg/L		03/22/23 08:37	03/22/23 19:20	1
Molybdenum	0.44		0.0050		mg/L		03/22/23 08:37	03/22/23 19:20	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:20	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	970		10		mg/L			03/22/23 06:20	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			03/22/23 10:20	10
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	370		100		mg/L			03/22/23 11:43	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	134.16				ft			03/20/23 09:32	1
Depth to Water (ft from MP)	136.49				ft			03/20/23 09:32	1
Elevation of well (ft from MP)	626.12				ft			03/20/23 09:32	1
Field pH	7.66				SU			03/20/23 09:32	1
Field Temperature	45.5				Degrees F			03/20/23 09:32	1
Field Turbidity	27.25				NTU			03/20/23 09:32	1
Ground Water Elevation	489.63				ft			03/20/23 09:32	1
Specific Conductance	1317				umhos/cm			03/20/23 09:32	1
Well bottom elevation	453.40				ft			03/20/23 09:32	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T08S

Lab Sample ID: 500-230703-7

Date Collected: 03/20/23 11:20

Matrix: Water

Date Received: 03/20/23 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0086		0.0030		mg/L		03/22/23 08:37	03/22/23 19:23	1
Arsenic	0.020		0.0010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Barium	0.032		0.0025		mg/L		03/22/23 08:37	03/22/23 19:23	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Boron	8.7		1.0		mg/L		03/22/23 08:37	03/23/23 13:50	20
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Calcium	22		0.20		mg/L		03/22/23 08:37	03/22/23 19:23	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Lithium	0.036		0.010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Molybdenum	0.85		0.0050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:23	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10		mg/L			03/22/23 06:23	1
Chloride (SM 4500 Cl- E)	93		20		mg/L			03/22/23 10:21	10
Fluoride (SM 4500 F C)	0.71		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	480		250		mg/L			03/22/23 11:43	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	129.36				ft			03/20/23 11:20	1
Depth to Water (ft from MP)	131.74				ft			03/20/23 11:20	1
Elevation of well (ft from MP)	627.55				ft			03/20/23 11:20	1
Field pH	8.22				SU			03/20/23 11:20	1
Field Temperature	52.3				Degrees F			03/20/23 11:20	1
Field Turbidity	4.00				NTU			03/20/23 11:20	1
Ground Water Elevation	495.81				ft			03/20/23 11:20	1
Specific Conductance	1439				umhos/cm			03/20/23 11:20	1
Well bottom elevation	447.38				ft			03/20/23 11:20	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T03S

Lab Sample ID: 500-230703-8

Date Collected: 03/20/23 13:47

Matrix: Water

Date Received: 03/20/23 15:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 19:33	1
Arsenic	0.0011		0.0010		mg/L		03/22/23 08:37	03/22/23 19:33	1
Barium	0.079		0.0025		mg/L		03/22/23 08:37	03/22/23 19:33	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:33	1
Boron	3.0		0.50		mg/L		03/22/23 08:37	03/23/23 13:53	10
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:33	1
Calcium	110		0.20		mg/L		03/22/23 08:37	03/22/23 19:33	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:33	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:33	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:33	1
Lithium	0.033		0.010		mg/L		03/22/23 08:37	03/22/23 19:33	1
Molybdenum	0.32		0.0050		mg/L		03/22/23 08:37	03/22/23 19:33	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:33	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	890		10		mg/L			03/22/23 06:25	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			03/22/23 10:22	10
Fluoride (SM 4500 F C)	0.21		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	320		100		mg/L			03/22/23 11:43	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.17				ft			03/20/23 13:47	1
Depth to Water (ft from MP)	140.25				ft			03/20/23 13:47	1
Elevation of well (ft from MP)	629.85				ft			03/20/23 13:47	1
Field pH	7.22				SU			03/20/23 13:47	1
Field Temperature	52.7				Degrees F			03/20/23 13:47	1
Field Turbidity	1.19				NTU			03/20/23 13:47	1
Ground Water Elevation	489.60				ft			03/20/23 13:47	1
Specific Conductance	1219				umhos/cm			03/20/23 13:47	1
Well bottom elevation	456.70				ft			03/20/23 13:47	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T01S

Lab Sample ID: 500-230703-9

Date Collected: 03/21/23 09:52

Matrix: Water

Date Received: 03/21/23 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 19:37	1
Arsenic	0.016		0.0010		mg/L		03/22/23 08:37	03/22/23 19:37	1
Barium	0.097		0.0025		mg/L		03/22/23 08:37	03/22/23 19:37	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:37	1
Boron	4.3		0.50		mg/L		03/22/23 08:37	03/23/23 13:57	10
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:37	1
Calcium	50		0.20		mg/L		03/22/23 08:37	03/22/23 19:37	1
Chromium	0.018		0.0050		mg/L		03/22/23 08:37	03/22/23 19:37	1
Cobalt	0.0079		0.0010		mg/L		03/22/23 08:37	03/22/23 19:37	1
Lead	0.0085		0.00050		mg/L		03/22/23 08:37	03/22/23 19:37	1
Lithium	0.022		0.010		mg/L		03/22/23 08:37	03/22/23 19:37	1
Molybdenum	0.29		0.0050		mg/L		03/22/23 08:37	03/22/23 19:37	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:37	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			03/22/23 06:28	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			03/22/23 10:22	10
Fluoride (SM 4500 F C)	1.1		0.10		mg/L			03/22/23 09:58	1
Sulfate (SM 4500 SO4 E)	430		100		mg/L			03/22/23 11:45	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	122.23				ft			03/21/23 09:52	1
Depth to Water (ft from MP)	124.71				ft			03/21/23 09:52	1
Elevation of well (ft from MP)	621.84				ft			03/21/23 09:52	1
Field pH	8.04				SU			03/21/23 09:52	1
Field Temperature	48.9				Degrees F			03/21/23 09:52	1
Field Turbidity	13.74				NTU			03/21/23 09:52	1
Ground Water Elevation	497.13				ft			03/21/23 09:52	1
Specific Conductance	1318				umhos/cm			03/21/23 09:52	1
Well bottom elevation	451.46				ft			03/21/23 09:52	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T09S

Lab Sample ID: 500-230703-10

Date Collected: 03/21/23 11:58

Matrix: Water

Date Received: 03/21/23 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 19:40	1
Arsenic	0.0019		0.0010		mg/L		03/22/23 08:37	03/22/23 19:40	1
Barium	0.064		0.0025		mg/L		03/22/23 08:37	03/22/23 19:40	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:40	1
Boron	9.9		1.0		mg/L		03/22/23 08:37	03/23/23 14:00	20
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:40	1
Calcium	130		0.20		mg/L		03/22/23 08:37	03/22/23 19:40	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:40	1
Cobalt	0.0012		0.0010		mg/L		03/22/23 08:37	03/22/23 19:40	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:40	1
Lithium	0.11		0.010		mg/L		03/22/23 08:37	03/22/23 19:40	1
Molybdenum	1.3		0.0050		mg/L		03/22/23 08:37	03/22/23 19:40	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:40	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			03/22/23 06:31	1
Chloride (SM 4500 Cl- E)	60		20		mg/L			03/22/23 10:22	10
Fluoride (SM 4500 F C)	0.39		0.10		mg/L			03/22/23 09:58	1
Sulfate (SM 4500 SO4 E)	540		250		mg/L			03/22/23 11:45	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	105.35				ft			03/21/23 11:58	1
Depth to Water (ft from MP)	107.75				ft			03/21/23 11:58	1
Elevation of well (ft from MP)	603.48				ft			03/21/23 11:58	1
Field pH	7.76				SU			03/21/23 11:58	1
Field Temperature	52.7				Degrees F			03/21/23 11:58	1
Field Turbidity	17.35				NTU			03/21/23 11:58	1
Ground Water Elevation	495.73				ft			03/21/23 11:58	1
Specific Conductance	1417				umhos/cm			03/21/23 11:58	1
Well bottom elevation	444.80				ft			03/21/23 11:58	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T06S

Lab Sample ID: 500-230703-11

Date Collected: 03/21/23 13:45

Matrix: Water

Date Received: 03/21/23 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 19:44	1
Arsenic	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:44	1
Barium	0.031		0.0025		mg/L		03/22/23 08:37	03/22/23 19:44	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:44	1
Boron	0.95		0.25		mg/L		03/22/23 08:37	03/23/23 14:04	5
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:44	1
Calcium	74		0.20		mg/L		03/22/23 08:37	03/22/23 19:44	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:44	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:44	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:44	1
Lithium	0.026		0.010		mg/L		03/22/23 08:37	03/22/23 19:44	1
Molybdenum	0.026		0.0050		mg/L		03/22/23 08:37	03/22/23 19:44	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:44	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	490		10		mg/L			03/22/23 06:33	1
Chloride (SM 4500 Cl- E)	13		2.0		mg/L			03/22/23 10:22	1
Fluoride (SM 4500 F C)	0.44		0.10		mg/L			03/22/23 09:58	1
Sulfate (SM 4500 SO4 E)	100		50		mg/L			03/22/23 11:45	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	115.75				ft			03/21/23 13:45	1
Depth to Water (ft from MP)	118.05				ft			03/21/23 13:45	1
Elevation of well (ft from MP)	621.05				ft			03/21/23 13:45	1
Field pH	7.63				SU			03/21/23 13:45	1
Field Temperature	65.1				Degrees F			03/21/23 13:45	1
Field Turbidity	3.17				NTU			03/21/23 13:45	1
Ground Water Elevation	503.00				ft			03/21/23 13:45	1
Specific Conductance	701				umhos/cm			03/21/23 13:45	1
Well bottom elevation	447.94				ft			03/21/23 13:45	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T05S

Lab Sample ID: 500-230703-12

Date Collected: 03/22/23 09:27

Matrix: Water

Date Received: 03/22/23 14:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/23/23 08:44	03/23/23 15:53	1
Arsenic	0.11		0.0010		mg/L		03/23/23 08:44	03/23/23 15:53	1
Barium	0.0098		0.0025		mg/L		03/23/23 08:44	03/23/23 15:53	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:53	1
Boron	11		2.5		mg/L		03/23/23 08:44	03/28/23 17:29	50
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:53	1
Calcium	5.7		0.20		mg/L		03/23/23 08:44	03/23/23 15:53	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:53	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:53	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:53	1
Lithium	0.021		0.010		mg/L		03/23/23 08:44	03/23/23 15:53	1
Molybdenum	0.96		0.0050		mg/L		03/23/23 08:44	03/23/23 15:53	1
Selenium	0.0028		0.0025		mg/L		03/23/23 08:44	03/28/23 19:51	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 15:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			03/23/23 05:22	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			03/24/23 10:59	10
Fluoride (SM 4500 F C)	1.6		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	570	F1	250		mg/L			03/24/23 12:27	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.86				ft			03/22/23 09:27	1
Depth to Water (ft from MP)	126.26				ft			03/22/23 09:27	1
Elevation of well (ft from MP)	623.50				ft			03/22/23 09:27	1
Field pH	9.70				SU			03/22/23 09:27	1
Field Temperature	46.6				Degrees F			03/22/23 09:27	1
Field Turbidity	2.15				NTU			03/22/23 09:27	1
Ground Water Elevation	497.24				ft			03/22/23 09:27	1
Specific Conductance	2100				umhos/cm			03/22/23 09:27	1
Well bottom elevation	448.35				ft			03/22/23 09:27	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: R08S

Lab Sample ID: 500-230703-13

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/23/23 08:44	03/23/23 15:57	1
Arsenic	0.0012		0.0010		mg/L		03/23/23 08:44	03/23/23 15:57	1
Barium	0.043		0.0025		mg/L		03/23/23 08:44	03/23/23 15:57	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:57	1
Boron	7.6		1.0		mg/L		03/23/23 08:44	03/28/23 17:33	20
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:57	1
Calcium	150		0.20		mg/L		03/23/23 08:44	03/23/23 15:57	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:57	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:57	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:57	1
Lithium	0.16		0.010		mg/L		03/23/23 08:44	03/23/23 15:57	1
Molybdenum	0.40		0.0050		mg/L		03/23/23 08:44	03/23/23 15:57	1
Selenium	0.011		0.0025		mg/L		03/23/23 08:44	03/28/23 19:54	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 15:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	880		10		mg/L			03/23/23 05:29	1
Chloride (SM 4500 Cl- E)	77		10		mg/L			03/24/23 10:40	5
Fluoride (SM 4500 F C)	0.15		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	450		50		mg/L			03/24/23 12:05	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	67.53				ft			03/22/23 12:25	1
Depth to Water (ft from MP)	70.08				ft			03/22/23 12:25	1
Elevation of well (ft from MP)	578.66				ft			03/22/23 12:25	1
Field pH	8.39				SU			03/22/23 12:25	1
Field Temperature	53.6				Degrees F			03/22/23 12:25	1
Field Turbidity	1.41				NTU			03/22/23 12:25	1
Ground Water Elevation	508.58				ft			03/22/23 12:25	1
Specific Conductance	998				umhos/cm			03/22/23 12:25	1
Well bottom elevation	453.08				ft			03/22/23 12:25	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: R08S Dup

Lab Sample ID: 500-230703-14

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/23/23 08:44	03/23/23 16:00	1
Arsenic	0.0012		0.0010		mg/L		03/23/23 08:44	03/23/23 16:00	1
Barium	0.042		0.0025		mg/L		03/23/23 08:44	03/23/23 16:00	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:00	1
Boron	7.8		1.0		mg/L		03/23/23 08:44	03/28/23 17:37	20
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:00	1
Calcium	150		0.20		mg/L		03/23/23 08:44	03/23/23 16:00	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 16:00	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:00	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:00	1
Lithium	0.16		0.010		mg/L		03/23/23 08:44	03/23/23 16:00	1
Molybdenum	0.40		0.0050		mg/L		03/23/23 08:44	03/23/23 16:00	1
Selenium	0.011		0.0025		mg/L		03/23/23 08:44	03/28/23 19:58	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 16:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	890		10		mg/L			03/23/23 05:35	1
Chloride (SM 4500 Cl- E)	77		10		mg/L			03/24/23 10:40	5
Fluoride (SM 4500 F C)	0.15		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	450		50		mg/L			03/24/23 12:05	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	67.53				ft			03/22/23 12:25	1
Depth to Water (ft from MP)	70.08				ft			03/22/23 12:25	1
Elevation of well (ft from MP)	578.66				ft			03/22/23 12:25	1
Field pH	8.39				SU			03/22/23 12:25	1
Field Temperature	53.6				Degrees F			03/22/23 12:25	1
Field Turbidity	1.41				NTU			03/22/23 12:25	1
Ground Water Elevation	508.58				ft			03/22/23 12:25	1
Specific Conductance	998				umhos/cm			03/22/23 12:25	1
Well bottom elevation	453.08				ft			03/22/23 12:25	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G46S

Lab Sample ID: 500-230703-15

Date Collected: 03/22/23 13:30

Matrix: Water

Date Received: 03/22/23 14:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/23/23 08:44	03/23/23 16:04	1
Arsenic	0.056		0.0010		mg/L		03/23/23 08:44	03/23/23 16:04	1
Barium	0.053		0.0025		mg/L		03/23/23 08:44	03/23/23 16:04	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:04	1
Boron	10		2.5		mg/L		03/23/23 08:44	03/28/23 17:41	50
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:04	1
Calcium	130		0.20		mg/L		03/23/23 08:44	03/23/23 16:04	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 16:04	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:04	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:04	1
Lithium	0.20		0.010		mg/L		03/23/23 08:44	03/23/23 16:04	1
Molybdenum	1.5		0.0050		mg/L		03/23/23 08:44	03/23/23 16:04	1
Selenium	<0.0025		0.0025		mg/L		03/23/23 08:44	03/28/23 20:01	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 16:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			03/23/23 05:37	1
Chloride (SM 4500 Cl- E)	72		20		mg/L			03/24/23 10:40	10
Fluoride (SM 4500 F C)	0.31		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	500		250		mg/L			03/24/23 12:05	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	89.29				ft			03/22/23 13:30	1
Depth to Water (ft from MP)	91.99				ft			03/22/23 13:30	1
Elevation of well (ft from MP)	601.41				ft			03/22/23 13:30	1
Field pH	7.70				SU			03/22/23 13:30	1
Field Temperature	53.6				Degrees F			03/22/23 13:30	1
Field Turbidity	88.61				NTU			03/22/23 13:30	1
Ground Water Elevation	509.42				ft			03/22/23 13:30	1
Specific Conductance	1307				umhos/cm			03/22/23 13:30	1
Well bottom elevation	453.62				ft			03/22/23 13:30	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G48S

Lab Sample ID: 500-230703-16

Date Collected: 03/23/23 10:13

Matrix: Water

Date Received: 03/23/23 14:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/24/23 08:57	03/28/23 18:07	1
Arsenic	0.016		0.0010		mg/L		03/24/23 08:57	03/28/23 18:07	1
Barium	0.017		0.0025		mg/L		03/24/23 08:57	03/28/23 18:07	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:07	1
Boron	6.0		1.0		mg/L		03/24/23 08:57	03/29/23 16:13	20
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:07	1
Calcium	24		0.20		mg/L		03/24/23 08:57	03/28/23 18:07	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:07	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:07	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:07	1
Lithium	0.021		0.010		mg/L		03/24/23 08:57	03/29/23 16:41	1
Molybdenum	0.37		0.0050		mg/L		03/24/23 08:57	03/28/23 18:07	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:07	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			03/29/23 03:12	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			03/24/23 10:41	10
Fluoride (SM 4500 F C)	0.96		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	370		250		mg/L			03/24/23 12:05	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	101.37				ft			03/23/23 10:13	1
Depth to Water (ft from MP)	103.82				ft			03/23/23 10:13	1
Elevation of well (ft from MP)	620.77				ft			03/23/23 10:13	1
Field pH	8.68				SU			03/23/23 10:13	1
Field Temperature	50.0				Degrees F			03/23/23 10:13	1
Field Turbidity	3.13				NTU			03/23/23 10:13	1
Ground Water Elevation	516.95				ft			03/23/23 10:13	1
Specific Conductance	1352				umhos/cm			03/23/23 10:13	1
Well bottom elevation	468.32				ft			03/23/23 10:13	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G47S

Lab Sample ID: 500-230703-17

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/24/23 08:57	03/28/23 18:11	1
Arsenic	0.039		0.0010		mg/L		03/24/23 08:57	03/28/23 18:11	1
Barium	0.013		0.0025		mg/L		03/24/23 08:57	03/28/23 18:11	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:11	1
Boron	6.7		1.0		mg/L		03/24/23 08:57	03/29/23 16:17	20
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:11	1
Calcium	11		0.20		mg/L		03/24/23 08:57	03/28/23 18:11	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:11	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:11	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:11	1
Lithium	0.049		0.010		mg/L		03/24/23 08:57	03/29/23 16:45	1
Molybdenum	0.52		0.0050		mg/L		03/24/23 08:57	03/28/23 18:11	1
Selenium	0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:11	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			03/29/23 03:20	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			03/24/23 10:41	10
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	440		250		mg/L			03/24/23 12:06	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	93.25				ft			03/23/23 11:22	1
Depth to Water (ft from MP)	95.75				ft			03/23/23 11:22	1
Elevation of well (ft from MP)	612.23				ft			03/23/23 11:22	1
Field pH	9.22				SU			03/23/23 11:22	1
Field Temperature	51.4				Degrees F			03/23/23 11:22	1
Field Turbidity	1.12				NTU			03/23/23 11:22	1
Ground Water Elevation	516.48				ft			03/23/23 11:22	1
Specific Conductance	1485				umhos/cm			03/23/23 11:22	1
Well bottom elevation	459.84				ft			03/23/23 11:22	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G45S

Lab Sample ID: 500-230703-18

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/24/23 08:57	03/28/23 18:14	1
Arsenic	0.0096		0.0010		mg/L		03/24/23 08:57	03/28/23 18:14	1
Barium	0.040		0.0025		mg/L		03/24/23 08:57	03/28/23 18:14	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:14	1
Boron	0.44		0.050		mg/L		03/24/23 08:57	03/29/23 16:21	1
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:14	1
Calcium	91		0.20		mg/L		03/24/23 08:57	03/28/23 18:14	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:14	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:14	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:14	1
Lithium	0.030		0.010		mg/L		03/24/23 08:57	03/29/23 16:21	1
Molybdenum	0.011		0.0050		mg/L		03/24/23 08:57	03/28/23 18:14	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:14	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	740		10		mg/L			03/29/23 03:25	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			03/24/23 10:42	10
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	160		50		mg/L			03/24/23 12:28	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	63.44				ft			03/23/23 12:16	1
Depth to Water (ft from MP)	66.41				ft			03/23/23 12:16	1
Elevation of well (ft from MP)	603.80				ft			03/23/23 12:16	1
Field pH	7.30				SU			03/23/23 12:16	1
Field Temperature	53.8				Degrees F			03/23/23 12:16	1
Field Turbidity	1.13				NTU			03/23/23 12:16	1
Ground Water Elevation	537.39				ft			03/23/23 12:16	1
Specific Conductance	1024				umhos/cm			03/23/23 12:16	1
Well bottom elevation	471.05				ft			03/23/23 12:16	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: R32S

Lab Sample ID: 500-230703-19

Date Collected: 03/23/23 13:34

Matrix: Water

Date Received: 03/23/23 14:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/24/23 08:57	03/28/23 18:18	1
Arsenic	0.0026		0.0010		mg/L		03/24/23 08:57	03/28/23 18:18	1
Barium	0.034		0.0025		mg/L		03/24/23 08:57	03/28/23 18:18	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:18	1
Boron	4.6		1.0		mg/L		03/24/23 08:57	03/29/23 16:25	20
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:18	1
Calcium	130		0.20		mg/L		03/24/23 08:57	03/28/23 18:18	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:18	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:18	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:18	1
Lithium	0.10		0.010		mg/L		03/24/23 08:57	03/29/23 16:49	1
Molybdenum	0.62		0.0050		mg/L		03/24/23 08:57	03/28/23 18:18	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:18	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	940		10		mg/L			03/29/23 03:27	1
Chloride (SM 4500 Cl- E)	56		10		mg/L			03/24/23 10:42	5
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			03/24/23 13:50	1
Sulfate (SM 4500 SO4 E)	390		250		mg/L			03/24/23 12:28	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	20.15				ft			03/23/23 13:34	1
Depth to Water (ft from MP)	22.18				ft			03/23/23 13:34	1
Elevation of well (ft from MP)	536.97				ft			03/23/23 13:34	1
Field pH	7.57				SU			03/23/23 13:34	1
Field Temperature	51.6				Degrees F			03/23/23 13:34	1
Field Turbidity	1.59				NTU			03/23/23 13:34	1
Ground Water Elevation	514.79				ft			03/23/23 13:34	1
Specific Conductance	935				umhos/cm			03/23/23 13:34	1
Well bottom elevation	457.84				ft			03/23/23 13:34	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Qualifiers

General Chemistry

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.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Metals

Prep Batch: 702832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total Recoverable	Water	3005A	
500-230703-2	G33S	Total Recoverable	Water	3005A	
500-230703-3	G44S	Total Recoverable	Water	3005A	
500-230703-4	G31S	Total Recoverable	Water	3005A	
MB 500-702832/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-702832/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 702887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	7470A	
500-230703-2	G33S	Total/NA	Water	7470A	
500-230703-3	G44S	Total/NA	Water	7470A	
500-230703-4	G31S	Total/NA	Water	7470A	
MB 500-702887/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-702887/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 703072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total Recoverable	Water	6020A	702832
500-230703-2	G33S	Total Recoverable	Water	6020A	702832
500-230703-3	G44S	Total Recoverable	Water	6020A	702832
MB 500-702832/1-A	Method Blank	Total Recoverable	Water	6020A	702832
LCS 500-702832/2-A	Lab Control Sample	Total Recoverable	Water	6020A	702832

Analysis Batch: 703090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	7470A	702887
500-230703-2	G33S	Total/NA	Water	7470A	702887
500-230703-3	G44S	Total/NA	Water	7470A	702887
500-230703-4	G31S	Total/NA	Water	7470A	702887
MB 500-702887/12-A	Method Blank	Total/NA	Water	7470A	702887
LCS 500-702887/13-A	Lab Control Sample	Total/NA	Water	7470A	702887

Prep Batch: 703199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total Recoverable	GW	3005A	
MB 500-703199/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-703199/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 703272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	7470A	
MB 500-703272/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-703272/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 703492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	7470A	703272
MB 500-703272/12-A	Method Blank	Total/NA	Water	7470A	703272
LCS 500-703272/13-A	Lab Control Sample	Total/NA	Water	7470A	703272

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Metals

Prep Batch: 703613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-6	T02S	Total Recoverable	Water	3005A	
500-230703-7	T08S	Total Recoverable	Water	3005A	
500-230703-8	T03S	Total Recoverable	Water	3005A	
500-230703-9	T01S	Total Recoverable	Water	3005A	
500-230703-10	T09S	Total Recoverable	Water	3005A	
500-230703-11	T06S	Total Recoverable	Water	3005A	
MB 500-703613/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-703613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 703655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total Recoverable	Water	6020A	702832
500-230703-2	G33S	Total Recoverable	Water	6020A	702832
500-230703-3	G44S	Total Recoverable	Water	6020A	702832
500-230703-4	G31S	Total Recoverable	Water	6020A	702832
MB 500-702832/1-A	Method Blank	Total Recoverable	Water	6020A	702832
LCS 500-702832/2-A	Lab Control Sample	Total Recoverable	Water	6020A	702832

Analysis Batch: 703766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-4	G31S	Total Recoverable	Water	6020A	702832

Prep Batch: 703856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	3005A	
500-230703-13	R08S	Total Recoverable	Water	3005A	
500-230703-14	R08S Dup	Total Recoverable	Water	3005A	
500-230703-15	G46S	Total Recoverable	Water	3005A	
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 703899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total Recoverable	GW	6020A	703199
500-230703-6	T02S	Total Recoverable	Water	6020A	703613
500-230703-7	T08S	Total Recoverable	Water	6020A	703613
500-230703-8	T03S	Total Recoverable	Water	6020A	703613
500-230703-9	T01S	Total Recoverable	Water	6020A	703613
500-230703-10	T09S	Total Recoverable	Water	6020A	703613
500-230703-11	T06S	Total Recoverable	Water	6020A	703613
MB 500-703199/1-A	Method Blank	Total Recoverable	Water	6020A	703199
MB 500-703613/1-A	Method Blank	Total Recoverable	Water	6020A	703613
LCS 500-703199/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703199
LCS 500-703613/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703613

Prep Batch: 703940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-6	T02S	Total/NA	Water	7470A	
500-230703-7	T08S	Total/NA	Water	7470A	
500-230703-8	T03S	Total/NA	Water	7470A	
500-230703-9	T01S	Total/NA	Water	7470A	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Metals (Continued)

Prep Batch: 703940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-10	T09S	Total/NA	Water	7470A	
500-230703-11	T06S	Total/NA	Water	7470A	
500-230703-12	T05S	Total/NA	Water	7470A	
500-230703-13	R08S	Total/NA	Water	7470A	
500-230703-14	R08S Dup	Total/NA	Water	7470A	
500-230703-15	G46S	Total/NA	Water	7470A	
MB 500-703940/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-703940/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 703969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total Recoverable	GW	6020A	703199
500-230703-6	T02S	Total Recoverable	Water	6020A	703613
500-230703-7	T08S	Total Recoverable	Water	6020A	703613
500-230703-8	T03S	Total Recoverable	Water	6020A	703613
500-230703-9	T01S	Total Recoverable	Water	6020A	703613
500-230703-10	T09S	Total Recoverable	Water	6020A	703613
500-230703-11	T06S	Total Recoverable	Water	6020A	703613
MB 500-703199/1-A	Method Blank	Total Recoverable	Water	6020A	703199
MB 500-703613/1-A	Method Blank	Total Recoverable	Water	6020A	703613
LCS 500-703199/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703199
LCS 500-703613/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703613

Prep Batch: 704076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total Recoverable	Water	3005A	
500-230703-17	G47S	Total Recoverable	Water	3005A	
500-230703-18	G45S	Total Recoverable	Water	3005A	
500-230703-19	R32S	Total Recoverable	Water	3005A	
MB 500-704076/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-704076/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 704131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	6020A	703856
500-230703-13	R08S	Total Recoverable	Water	6020A	703856
500-230703-14	R08S Dup	Total Recoverable	Water	6020A	703856
500-230703-15	G46S	Total Recoverable	Water	6020A	703856
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	6020A	703856
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703856

Analysis Batch: 704153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-6	T02S	Total/NA	Water	7470A	703940
500-230703-7	T08S	Total/NA	Water	7470A	703940
500-230703-8	T03S	Total/NA	Water	7470A	703940
500-230703-9	T01S	Total/NA	Water	7470A	703940
500-230703-10	T09S	Total/NA	Water	7470A	703940
500-230703-11	T06S	Total/NA	Water	7470A	703940
500-230703-12	T05S	Total/NA	Water	7470A	703940
500-230703-13	R08S	Total/NA	Water	7470A	703940

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Metals (Continued)

Analysis Batch: 704153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-14	R08S Dup	Total/NA	Water	7470A	703940
500-230703-15	G46S	Total/NA	Water	7470A	703940
MB 500-703940/12-A	Method Blank	Total/NA	Water	7470A	703940
LCS 500-703940/13-A	Lab Control Sample	Total/NA	Water	7470A	703940

Prep Batch: 704166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total/NA	Water	7470A	
500-230703-17	G47S	Total/NA	Water	7470A	
500-230703-18	G45S	Total/NA	Water	7470A	
500-230703-19	R32S	Total/NA	Water	7470A	
MB 500-704166/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-704166/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 704415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total/NA	Water	7470A	704166
500-230703-17	G47S	Total/NA	Water	7470A	704166
500-230703-18	G45S	Total/NA	Water	7470A	704166
500-230703-19	R32S	Total/NA	Water	7470A	704166
MB 500-704166/12-A	Method Blank	Total/NA	Water	7470A	704166
LCS 500-704166/13-A	Lab Control Sample	Total/NA	Water	7470A	704166

Analysis Batch: 704817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	6020A	703856
500-230703-13	R08S	Total Recoverable	Water	6020A	703856
500-230703-14	R08S Dup	Total Recoverable	Water	6020A	703856
500-230703-15	G46S	Total Recoverable	Water	6020A	703856
500-230703-16	G48S	Total Recoverable	Water	6020A	704076
500-230703-17	G47S	Total Recoverable	Water	6020A	704076
500-230703-18	G45S	Total Recoverable	Water	6020A	704076
500-230703-19	R32S	Total Recoverable	Water	6020A	704076
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	6020A	703856
MB 500-704076/1-A	Method Blank	Total Recoverable	Water	6020A	704076
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703856
LCS 500-704076/2-A	Lab Control Sample	Total Recoverable	Water	6020A	704076

Analysis Batch: 704828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	6020A	703856
500-230703-13	R08S	Total Recoverable	Water	6020A	703856
500-230703-14	R08S Dup	Total Recoverable	Water	6020A	703856
500-230703-15	G46S	Total Recoverable	Water	6020A	703856
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	6020A	703856
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703856

Analysis Batch: 705004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total Recoverable	Water	6020A	704076
500-230703-16	G48S	Total Recoverable	Water	6020A	704076

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Metals (Continued)

Analysis Batch: 705004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-17	G47S	Total Recoverable	Water	6020A	704076
500-230703-17	G47S	Total Recoverable	Water	6020A	704076
500-230703-18	G45S	Total Recoverable	Water	6020A	704076
500-230703-19	R32S	Total Recoverable	Water	6020A	704076
500-230703-19	R32S	Total Recoverable	Water	6020A	704076
MB 500-704076/1-A	Method Blank	Total Recoverable	Water	6020A	704076
LCS 500-704076/2-A	Lab Control Sample	Total Recoverable	Water	6020A	704076

General Chemistry

Analysis Batch: 702554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 2540C	
MB 500-702554/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-702554/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 702719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 4500 F C	
MB 500-702719/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-702719/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 702875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 4500 Cl- E	
500-230703-2	G33S	Total/NA	Water	SM 4500 Cl- E	
500-230703-3	G44S	Total/NA	Water	SM 4500 Cl- E	
500-230703-4	G31S	Total/NA	Water	SM 4500 Cl- E	
MB 500-702875/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-702875/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-230703-1 MS	G20S	Total/NA	Water	SM 4500 Cl- E	
500-230703-1 MSD	G20S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 703068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 4500 SO4 E	
500-230703-2	G33S	Total/NA	Water	SM 4500 SO4 E	
500-230703-3	G44S	Total/NA	Water	SM 4500 SO4 E	
500-230703-4	G31S	Total/NA	Water	SM 4500 SO4 E	
MB 500-703068/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-703068/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-230703-1 MS	G20S	Total/NA	Water	SM 4500 SO4 E	
500-230703-1 MSD	G20S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 703184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-2	G33S	Total/NA	Water	SM 2540C	
MB 500-703184/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-703184/2	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

General Chemistry

Analysis Batch: 703509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-2	G33S	Total/NA	Water	SM 4500 F C	
500-230703-3	G44S	Total/NA	Water	SM 4500 F C	
500-230703-4	G31S	Total/NA	Water	SM 4500 F C	
500-230703-5	G30S	Total/NA	GW	SM 4500 F C	
500-230703-6	T02S	Total/NA	Water	SM 4500 F C	
500-230703-7	T08S	Total/NA	Water	SM 4500 F C	
500-230703-8	T03S	Total/NA	Water	SM 4500 F C	
MB 500-703509/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-703509/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-230703-2 MS	G33S	Total/NA	Water	SM 4500 F C	
500-230703-2 MSD	G33S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 703678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	SM 4500 Cl- E	
500-230703-6	T02S	Total/NA	Water	SM 4500 Cl- E	
500-230703-7	T08S	Total/NA	Water	SM 4500 Cl- E	
500-230703-8	T03S	Total/NA	Water	SM 4500 Cl- E	
500-230703-9	T01S	Total/NA	Water	SM 4500 Cl- E	
500-230703-10	T09S	Total/NA	Water	SM 4500 Cl- E	
500-230703-11	T06S	Total/NA	Water	SM 4500 Cl- E	
MB 500-703678/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-703678/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 703684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-3	G44S	Total/NA	Water	SM 2540C	
500-230703-4	G31S	Total/NA	Water	SM 2540C	
500-230703-5	G30S	Total/NA	GW	SM 2540C	
500-230703-6	T02S	Total/NA	Water	SM 2540C	
500-230703-7	T08S	Total/NA	Water	SM 2540C	
500-230703-8	T03S	Total/NA	Water	SM 2540C	
500-230703-9	T01S	Total/NA	Water	SM 2540C	
500-230703-10	T09S	Total/NA	Water	SM 2540C	
500-230703-11	T06S	Total/NA	Water	SM 2540C	
MB 500-703684/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-703684/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-230703-3 MS	G44S	Total/NA	Water	SM 2540C	
500-230703-3 DU	G44S	Total/NA	Water	SM 2540C	
500-230703-4 DU	G31S	Total/NA	Water	SM 2540C	

Analysis Batch: 703694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	SM 4500 SO4 E	
500-230703-6	T02S	Total/NA	Water	SM 4500 SO4 E	
500-230703-7	T08S	Total/NA	Water	SM 4500 SO4 E	
500-230703-8	T03S	Total/NA	Water	SM 4500 SO4 E	
500-230703-9	T01S	Total/NA	Water	SM 4500 SO4 E	
500-230703-10	T09S	Total/NA	Water	SM 4500 SO4 E	
500-230703-11	T06S	Total/NA	Water	SM 4500 SO4 E	
MB 500-703694/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

General Chemistry (Continued)

Analysis Batch: 703694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-703694/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 703726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-9	T01S	Total/NA	Water	SM 4500 F C	
500-230703-10	T09S	Total/NA	Water	SM 4500 F C	
500-230703-11	T06S	Total/NA	Water	SM 4500 F C	
MB 500-703726/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-703726/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-230703-11 MS	T06S	Total/NA	Water	SM 4500 F C	
500-230703-11 MSD	T06S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 703901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 2540C	
500-230703-13	R08S	Total/NA	Water	SM 2540C	
500-230703-14	R08S Dup	Total/NA	Water	SM 2540C	
500-230703-15	G46S	Total/NA	Water	SM 2540C	
MB 500-703901/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-703901/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-230703-12 MS	T05S	Total/NA	Water	SM 2540C	
500-230703-12 DU	T05S	Total/NA	Water	SM 2540C	
500-230703-13 DU	R08S	Total/NA	Water	SM 2540C	

Analysis Batch: 704133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 4500 CI- E	
500-230703-13	R08S	Total/NA	Water	SM 4500 CI- E	
500-230703-14	R08S Dup	Total/NA	Water	SM 4500 CI- E	
500-230703-15	G46S	Total/NA	Water	SM 4500 CI- E	
500-230703-16	G48S	Total/NA	Water	SM 4500 CI- E	
500-230703-17	G47S	Total/NA	Water	SM 4500 CI- E	
500-230703-18	G45S	Total/NA	Water	SM 4500 CI- E	
500-230703-19	R32S	Total/NA	Water	SM 4500 CI- E	
MB 500-704133/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-704133/44	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-704133/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-704133/45	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 704148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 4500 SO4 E	
500-230703-13	R08S	Total/NA	Water	SM 4500 SO4 E	
500-230703-14	R08S Dup	Total/NA	Water	SM 4500 SO4 E	
500-230703-15	G46S	Total/NA	Water	SM 4500 SO4 E	
500-230703-16	G48S	Total/NA	Water	SM 4500 SO4 E	
500-230703-17	G47S	Total/NA	Water	SM 4500 SO4 E	
500-230703-18	G45S	Total/NA	Water	SM 4500 SO4 E	
500-230703-19	R32S	Total/NA	Water	SM 4500 SO4 E	
MB 500-704148/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-704148/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

General Chemistry (Continued)

Analysis Batch: 704148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12 MS	T05S	Total/NA	Water	SM 4500 SO4 E	
500-230703-12 MSD	T05S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 704163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 4500 F C	
500-230703-13	R08S	Total/NA	Water	SM 4500 F C	
500-230703-14	R08S Dup	Total/NA	Water	SM 4500 F C	
500-230703-15	G46S	Total/NA	Water	SM 4500 F C	
500-230703-16	G48S	Total/NA	Water	SM 4500 F C	
500-230703-17	G47S	Total/NA	Water	SM 4500 F C	
500-230703-18	G45S	Total/NA	Water	SM 4500 F C	
500-230703-19	R32S	Total/NA	Water	SM 4500 F C	
MB 500-704163/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-704163/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-230703-12 MS	T05S	Total/NA	Water	SM 4500 F C	
500-230703-12 MSD	T05S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 704689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total/NA	Water	SM 2540C	
500-230703-17	G47S	Total/NA	Water	SM 2540C	
500-230703-18	G45S	Total/NA	Water	SM 2540C	
500-230703-19	R32S	Total/NA	Water	SM 2540C	
MB 500-704689/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-704689/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-230703-16 MS	G48S	Total/NA	Water	SM 2540C	
500-230703-16 DU	G48S	Total/NA	Water	SM 2540C	
500-230703-17 DU	G47S	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 702599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	Field Sampling	
500-230703-2	G33S	Total/NA	Water	Field Sampling	
500-230703-3	G44S	Total/NA	Water	Field Sampling	
500-230703-4	G31S	Total/NA	Water	Field Sampling	
500-230703-5	G30S	Total/NA	GW	Field Sampling	
500-230703-6	T02S	Total/NA	Water	Field Sampling	
500-230703-7	T08S	Total/NA	Water	Field Sampling	
500-230703-8	T03S	Total/NA	Water	Field Sampling	
500-230703-9	T01S	Total/NA	Water	Field Sampling	
500-230703-10	T09S	Total/NA	Water	Field Sampling	
500-230703-11	T06S	Total/NA	Water	Field Sampling	
500-230703-12	T05S	Total/NA	Water	Field Sampling	
500-230703-13	R08S	Total/NA	Water	Field Sampling	
500-230703-14	R08S Dup	Total/NA	Water	Field Sampling	
500-230703-15	G46S	Total/NA	Water	Field Sampling	
500-230703-16	G48S	Total/NA	Water	Field Sampling	
500-230703-17	G47S	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 702599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-18	G45S	Total/NA	Water	Field Sampling	
500-230703-19	R32S	Total/NA	Water	Field Sampling	

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

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-702832/1-A
Matrix: Water
Analysis Batch: 703072

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 702832

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/16/23 08:33	03/16/23 17:42	1
Arsenic	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 17:42	1
Barium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 17:42	1
Boron	<0.050		0.050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Calcium	<0.20		0.20		mg/L		03/16/23 08:33	03/16/23 17:42	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 17:42	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Lithium	<0.010		0.010		mg/L		03/16/23 08:33	03/16/23 17:42	1
Molybdenum	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 17:42	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 17:42	1

Lab Sample ID: MB 500-702832/1-A
Matrix: Water
Analysis Batch: 703655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 702832

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 16:50	1

Lab Sample ID: LCS 500-702832/2-A
Matrix: Water
Analysis Batch: 703072

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 702832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.513		mg/L		103	80 - 120
Molybdenum	1.00	0.974		mg/L		97	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-702832/2-A
Matrix: Water
Analysis Batch: 703655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 702832

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

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: MB 500-703199/1-A
Matrix: Water
Analysis Batch: 703899

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703199

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/20/23 08:05	03/22/23 20:15	1
Arsenic	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Barium	<0.0025		0.0025		mg/L		03/20/23 08:05	03/22/23 20:15	1
Beryllium	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Cadmium	<0.00050		0.00050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Calcium	<0.20		0.20		mg/L		03/20/23 08:05	03/22/23 20:15	1
Chromium	<0.0050		0.0050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Cobalt	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Lead	<0.00050		0.00050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Lithium	<0.010		0.010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Molybdenum	<0.0050		0.0050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Selenium	<0.0025		0.0025		mg/L		03/20/23 08:05	03/22/23 20:15	1
Thallium	<0.0020		0.0020		mg/L		03/20/23 08:05	03/22/23 20:15	1

Lab Sample ID: MB 500-703199/1-A
Matrix: Water
Analysis Batch: 703969

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703199

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/20/23 08:05	03/23/23 13:22	1

Lab Sample ID: LCS 500-703199/2-A
Matrix: Water
Analysis Batch: 703899

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.05		mg/L		103	80 - 120
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Calcium	10.0	9.70		mg/L		97	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.500	0.497		mg/L		99	80 - 120
Molybdenum	1.00	0.971		mg/L		97	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-703199/2-A
Matrix: Water
Analysis Batch: 703969

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703199

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

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: MB 500-703613/1-A
Matrix: Water
Analysis Batch: 703899

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703613

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 18:47	1
Arsenic	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Barium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 18:47	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Calcium	<0.20		0.20		mg/L		03/22/23 08:37	03/22/23 18:47	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Lithium	<0.010		0.010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Molybdenum	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 18:47	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 18:47	1

Lab Sample ID: MB 500-703613/1-A
Matrix: Water
Analysis Batch: 703969

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703613

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/22/23 08:37	03/23/23 13:40	1

Lab Sample ID: LCS 500-703613/2-A
Matrix: Water
Analysis Batch: 703899

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0951		mg/L		95	80 - 120
Barium	2.00	2.07		mg/L		104	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	9.95		mg/L		100	80 - 120
Chromium	0.200	0.207		mg/L		104	80 - 120
Cobalt	0.500	0.518		mg/L		104	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.514		mg/L		103	80 - 120
Molybdenum	1.00	0.997		mg/L		100	80 - 120
Selenium	0.100	0.0999		mg/L		100	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-703613/2-A
Matrix: Water
Analysis Batch: 703969

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703613

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

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: MB 500-703856/1-A
Matrix: Water
Analysis Batch: 704131

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703856

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/23/23 08:44	03/23/23 15:32	1
Arsenic	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Barium	<0.0025		0.0025		mg/L		03/23/23 08:44	03/23/23 15:32	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Calcium	<0.20		0.20		mg/L		03/23/23 08:44	03/23/23 15:32	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Lithium	<0.010		0.010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Molybdenum	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 15:32	1

Lab Sample ID: MB 500-703856/1-A
Matrix: Water
Analysis Batch: 704828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703856

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/23/23 08:44	03/28/23 16:45	1

Lab Sample ID: MB 500-703856/1-A
Matrix: Water
Analysis Batch: 704817

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 703856

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	<0.0025		0.0025		mg/L		03/23/23 08:44	03/28/23 19:10	1

Lab Sample ID: LCS 500-703856/2-A
Matrix: Water
Analysis Batch: 704131

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703856

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.531		mg/L		106	80 - 120
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Calcium	10.0	9.94		mg/L		99	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.500	0.524		mg/L		105	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.510		mg/L		102	80 - 120
Molybdenum	1.00	0.989		mg/L		99	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: LCS 500-703856/2-A
Matrix: Water
Analysis Batch: 704828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.965		mg/L		97	80 - 120

Lab Sample ID: LCS 500-703856/2-A
Matrix: Water
Analysis Batch: 704817

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 703856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: MB 500-704076/1-A
Matrix: Water
Analysis Batch: 704817

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 704076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/24/23 08:57	03/28/23 18:01	1
Arsenic	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:01	1
Barium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:01	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:01	1
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Calcium	<0.20		0.20		mg/L		03/24/23 08:57	03/28/23 18:01	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:01	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Molybdenum	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:01	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:01	1

Lab Sample ID: MB 500-704076/1-A
Matrix: Water
Analysis Batch: 705004

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 704076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		03/24/23 08:57	03/29/23 16:05	1
Lithium	<0.010		0.010		mg/L		03/24/23 08:57	03/29/23 16:05	1

Lab Sample ID: LCS 500-704076/2-A
Matrix: Water
Analysis Batch: 704817

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 704076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.491		mg/L		98	80 - 120
Arsenic	0.100	0.0981		mg/L		98	80 - 120
Barium	2.00	2.04		mg/L		102	80 - 120
Beryllium	0.0500	0.0447		mg/L		89	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Calcium	10.0	9.58		mg/L		96	80 - 120
Chromium	0.200	0.191		mg/L		95	80 - 120
Cobalt	0.500	0.483		mg/L		97	80 - 120
Lead	0.100	0.0932		mg/L		93	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: LCS 500-704076/2-A
 Matrix: Water
 Analysis Batch: 704817

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 704076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1.00	0.903		mg/L		90	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.0881		mg/L		88	80 - 120

Lab Sample ID: LCS 500-704076/2-A
 Matrix: Water
 Analysis Batch: 705004

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 704076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.997		mg/L		100	80 - 120
Lithium	0.500	0.503		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-702887/12-A
 Matrix: Water
 Analysis Batch: 703090

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 702887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:26	1

Lab Sample ID: LCS 500-702887/13-A
 Matrix: Water
 Analysis Batch: 703090

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 702887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00195		mg/L		98	80 - 120

Lab Sample ID: MB 500-703272/12-A
 Matrix: Water
 Analysis Batch: 703492

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 703272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/20/23 10:40	03/21/23 08:35	1

Lab Sample ID: LCS 500-703272/13-A
 Matrix: Water
 Analysis Batch: 703492

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 703272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00204		mg/L		103	80 - 120

Lab Sample ID: MB 500-703940/12-A
 Matrix: Water
 Analysis Batch: 704153

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 703940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 07:04	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: LCS 500-703940/13-A
Matrix: Water
Analysis Batch: 704153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 703940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00196		mg/L		99	80 - 120

Lab Sample ID: MB 500-704166/12-A
Matrix: Water
Analysis Batch: 704415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 704166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 07:32	1

Lab Sample ID: LCS 500-704166/13-A
Matrix: Water
Analysis Batch: 704415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 704166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00194		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-702554/1
Matrix: Water
Analysis Batch: 702554

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			03/15/23 02:39	1

Lab Sample ID: LCS 500-702554/2
Matrix: Water
Analysis Batch: 702554

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

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

Lab Sample ID: MB 500-703184/1
Matrix: Water
Analysis Batch: 703184

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			03/20/23 04:42	1

Lab Sample ID: LCS 500-703184/2
Matrix: Water
Analysis Batch: 703184

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	246		mg/L		98	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: MB 500-703684/1
Matrix: Water
Analysis Batch: 703684

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			03/22/23 06:00	1

Lab Sample ID: LCS 500-703684/2
Matrix: Water
Analysis Batch: 703684

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	248		mg/L		99	80 - 120

Lab Sample ID: 500-230703-3 MS
Matrix: Water
Analysis Batch: 703684

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	720		250	990		mg/L		106	75 - 125

Lab Sample ID: 500-230703-3 DU
Matrix: Water
Analysis Batch: 703684

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	720		700		mg/L		3	5

Lab Sample ID: 500-230703-4 DU
Matrix: Water
Analysis Batch: 703684

Client Sample ID: G31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1070		mg/L		2	5

Lab Sample ID: MB 500-703901/1
Matrix: Water
Analysis Batch: 703901

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			03/23/23 05:17	1

Lab Sample ID: LCS 500-703901/2
Matrix: Water
Analysis Batch: 703901

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	238		mg/L		95	80 - 120

Lab Sample ID: 500-230703-12 MS
Matrix: Water
Analysis Batch: 703901

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1500		250	1760	4	mg/L		105	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: 500-230703-12 DU
Matrix: Water
Analysis Batch: 703901

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1500		1450		mg/L		3	5

Lab Sample ID: 500-230703-13 DU
Matrix: Water
Analysis Batch: 703901

Client Sample ID: R08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	880		838		mg/L		4	5

Lab Sample ID: MB 500-704689/1
Matrix: Water
Analysis Batch: 704689

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			03/29/23 02:44	1

Lab Sample ID: LCS 500-704689/2
Matrix: Water
Analysis Batch: 704689

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	254		mg/L		102	80 - 120

Lab Sample ID: 500-230703-16 MS
Matrix: Water
Analysis Batch: 704689

Client Sample ID: G48S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000		250	1290	4	mg/L		102	75 - 125

Lab Sample ID: 500-230703-16 DU
Matrix: Water
Analysis Batch: 704689

Client Sample ID: G48S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1030		mg/L		0.2	5

Lab Sample ID: 500-230703-17 DU
Matrix: Water
Analysis Batch: 704689

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1140		mg/L		2	5

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-702875/16
Matrix: Water
Analysis Batch: 702875

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			03/16/23 09:45	1

Lab Sample ID: LCS 500-702875/17
Matrix: Water
Analysis Batch: 702875

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	19.8		mg/L		99	85 - 115

Lab Sample ID: 500-230703-1 MS
Matrix: Water
Analysis Batch: 702875

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16		20.0	33.3		mg/L		86	75 - 125

Lab Sample ID: 500-230703-1 MSD
Matrix: Water
Analysis Batch: 702875

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16		20.0	33.2		mg/L		86	75 - 125	0	20

Lab Sample ID: MB 500-703678/16
Matrix: Water
Analysis Batch: 703678

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			03/22/23 10:19	1

Lab Sample ID: LCS 500-703678/17
Matrix: Water
Analysis Batch: 703678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

Lab Sample ID: MB 500-704133/16
Matrix: Water
Analysis Batch: 704133

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			03/24/23 10:39	1

Lab Sample ID: MB 500-704133/44
Matrix: Water
Analysis Batch: 704133

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			03/24/23 10:45	1

Euofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: LCS 500-704133/17
 Matrix: Water
 Analysis Batch: 704133

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		98	85 - 115

Lab Sample ID: LCS 500-704133/45
 Matrix: Water
 Analysis Batch: 704133

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 500-702719/31
 Matrix: Water
 Analysis Batch: 702719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/15/23 10:44	1

Lab Sample ID: LCS 500-702719/32
 Matrix: Water
 Analysis Batch: 702719

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	10.0		mg/L		100	90 - 119

Lab Sample ID: MB 500-703509/3
 Matrix: Water
 Analysis Batch: 703509

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/21/23 10:54	1

Lab Sample ID: LCS 500-703509/4
 Matrix: Water
 Analysis Batch: 703509

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	10.4		mg/L		104	90 - 119

Lab Sample ID: 500-230703-2 MS
 Matrix: Water
 Analysis Batch: 703509

Client Sample ID: G33S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.56		5.00	5.58		mg/L		100	75 - 125

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-230703-2 MSD
Matrix: Water
Analysis Batch: 703509

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.56		5.00	5.60		mg/L		101	75 - 125	0	20

Lab Sample ID: MB 500-703726/3
Matrix: Water
Analysis Batch: 703726

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/22/23 09:58	1

Lab Sample ID: LCS 500-703726/4
Matrix: Water
Analysis Batch: 703726

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	10.2		mg/L		102	90 - 119

Lab Sample ID: 500-230703-11 MS
Matrix: Water
Analysis Batch: 703726

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.44		5.00	5.68		mg/L		105	75 - 125

Lab Sample ID: 500-230703-11 MSD
Matrix: Water
Analysis Batch: 703726

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.44		5.00	5.46		mg/L		100	75 - 125	4	20

Lab Sample ID: MB 500-704163/3
Matrix: Water
Analysis Batch: 704163

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/24/23 13:50	1

Lab Sample ID: LCS 500-704163/4
Matrix: Water
Analysis Batch: 704163

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

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

Lab Sample ID: 500-230703-12 MS
Matrix: Water
Analysis Batch: 704163

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.6		5.00	6.67		mg/L		102	75 - 125

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-230703-12 MSD
 Matrix: Water
 Analysis Batch: 704163

Client Sample ID: T05S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.6		5.00	6.65		mg/L		102	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-703068/16
 Matrix: Water
 Analysis Batch: 703068

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			03/17/23 09:50	1

Lab Sample ID: LCS 500-703068/17
 Matrix: Water
 Analysis Batch: 703068

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: 500-230703-1 MS
 Matrix: Water
 Analysis Batch: 703068

Client Sample ID: G20S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	64		20.0	83.2		mg/L		97	75 - 125

Lab Sample ID: 500-230703-1 MSD
 Matrix: Water
 Analysis Batch: 703068

Client Sample ID: G20S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	64		20.0	82.9		mg/L		95	75 - 125	0	20

Lab Sample ID: MB 500-703694/16
 Matrix: Water
 Analysis Batch: 703694

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			03/22/23 11:41	1

Lab Sample ID: LCS 500-703694/17
 Matrix: Water
 Analysis Batch: 703694

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	21.5		mg/L		108	88 - 123

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: MB 500-704148/16
Matrix: Water
Analysis Batch: 704148

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			03/24/23 12:03	1

Lab Sample ID: LCS 500-704148/17
Matrix: Water
Analysis Batch: 704148

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	20.2		mg/L		101	88 - 123

Lab Sample ID: 500-230703-12 MS
Matrix: Water
Analysis Batch: 704148

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	570	F1	20.0	552	4	mg/L		-67	75 - 125

Lab Sample ID: 500-230703-12 MSD
Matrix: Water
Analysis Batch: 704148

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	570	F1	20.0	557	4	mg/L		-39	75 - 125	1	20

Chain of Custody Record 522975 eurofins

Environment Testing
TestAmerica



Address _____ 500-230703 COC

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact	Project Manager: <i>Diana Mockler</i>	Site Contact	Date	COC No
Company Name <i>Midwest Generation EME LLC</i>	Tel/Email	Lab Contact	Carrier	____ of ____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip <i>Joliet, IL</i>	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS			For Lab Use Only
Phone	TAT if different from Below _____			Walk-in Client <input type="checkbox"/>
Fax	<input type="checkbox"/> 2 weeks			Lab Sampling <input type="checkbox"/>
Project Name <i>Joliet #9 CCR</i>	<input type="checkbox"/> 1 week			Job / SDG No
Site <i>1023</i>	<input type="checkbox"/> 2 days			<i>500-230703</i>
P O #	<input type="checkbox"/> 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
<i>G205</i>	<i>03/14/23</i>	<i>1128</i>		<i>W</i>	<i>5</i>			<i>Radium 226 Radium 228 Combined 226/228 Meets 14 elements + Hg TDW, Fl. Cl, SO4</i>

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample	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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months

Special Instructions/QC Requirements & Comments: *3.0 → 2.9*

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____
Relinquished by <i>[Signature]</i>	Company <i>EETA</i>	Date/Time <i>03/14/23 1552</i>	Received by _____	Company _____
Relinquished by	Company	Date/Time	Received by	Company
Relinquished by	Company	Date/Time	Received in Laboratory by <i>Stephanie Hernandez</i>	Company <i>EETA</i>
				Date/Time <i>3/14/23 1552</i>

Chain of Custody Record

522979



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other


TAL-8210

Client Contact		Project Manager			Site Contact		Date		
Company Name <i>Midwest Generation DME LLC</i>		Tel/Email:			Lab Contact		Carrier		
Address		Analysis Turnaround Time							
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax		500-230703 COC 							
Project Name <i>Joliet #9 CCR</i>									
Site <i>1Q23 + Turbidity</i>									
P O #									
				Filtered Sample (Y/N) Perform MS/MSD (Y/N)				COC No _____ of _____ COCs Sampler: _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-230703</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	<i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		Sample Specific Notes
2	<i>G335</i>	<i>03/15/23</i>	<i>0935</i>	<i>W</i>	<i>5</i>	<i>5</i>			
3	<i>G445</i>	<i>03/15/23</i>	<i>1050</i>	<i>W</i>	<i>5</i>	<i>5</i>			
4	<i>G315</i>	<i>03/15/23</i>	<i>1257</i>	<i>W</i>	<i>5</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					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				
Special Instructions/QC Requirements & Comments: <div style="text-align: right; font-size: 18pt; font-weight: bold;">5.2+5.1</div>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____			Cooler Temp (°C) Obs'd _____		Corr'd _____		Therm ID No _____
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/15/23 @ 1400</i>		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>EETA</i>	
								Date/Time <i>3/15/23 1400</i>	



Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact:		Date		COC No			
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact:		Carrier		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, Fl, Cl, SO4</i>		 500 230703 COC		Sampler:			
City/State/Zip <i>Soliet, FL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only		Walk-in Client	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling		Job / SDG No	
Fax										<i>500-230703</i>	
Project Name <i>Soliet #9 CCR</i>										Sample Specific Notes	
Site <i>1023 + Turbidity</i>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
<i>T025</i>		<i>03/20/23</i>	<i>0932</i>		<i>W</i>	<i>5</i>					
<i>T085</i>		<i>03/20/23</i>	<i>1120</i>		<i>W</i>	<i>5</i>					
<i>T035</i>		<i>03/20/23</i>	<i>1347</i>		<i>W</i>	<i>5</i>					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>3.6</i> Corr'd <i>3.5</i>		Therm ID No					
Relinquished by <i>[Signature]</i>		Company <i>EETP</i>		Date/Time <i>03/20/23 @ 1512</i>		Received by		Company			
Relinquished by		Company		Date/Time		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETP</i>			
								Date/Time <i>3/20/23 1512</i>			

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Chain of Custody Record 522977 eurofins

Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>Diana Macker</i>			Site Contact:			Date			COC No				
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email:			Lab Contact:			Carrier			_____ of _____ COCs				
Address		Analysis Turnaround Time										Sampler:			
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____										For Lab Use Only			
Phone		 500 230703 COC										Walk-in Client			
Fax												<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Sampling	
Project Name <i>Joliet #9 CCR</i>														Job / SDG No	
Site <i>1Q23 + Turbidity</i>														<i>500-230703</i>	
P O #															
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes							
<i>9</i> <i>10</i> <i>11</i> T010	<i>03/21/23</i>	<i>0952</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements +Hg</i> <i>TDS, Fl, Cl, SO4</i>							
T095	<i>03/21/23</i>	<i>1158</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>								
T065	<i>03/21/23</i>	<i>1345</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification								<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown															
Special Instructions/QC Requirements & Comments.															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No _____				Cooler Temp (°C) Obs'd _____ Corr'd _____				Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/21/23 @ 1545</i>		Received by:		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received by:		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>[Signature]</i>		Company <i>PERM</i>		Date/Time <i>3/21/23 1545</i>					



Chain of Custody Record

522976




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager: <i>Diana Mackler</i>		Site Contact:		Date:		COC No		
Company Name <i>Midwest Generation ENE LLC</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs		
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-230703 COC		Sampler		
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only		
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client		
Fax								Lab Sampling		
Project Name <i>Joliet #9 CCR</i>								Job / SDG No		
Site <i>1Q23 + Turbidity</i>						500-230703				
P O #								Sample Specific Notes		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.				
<i>T05J</i>		<i>03/24/23</i>	<i>0927</i>		<i>W</i>	<i>5</i>				
<i>R08S</i>		<i>03/24/23</i>	<i>1225</i>		<i>W</i>	<i>5</i>				
<i>DUP of R08S</i>		<i>03/24/23</i>	<i>1225</i>		<i>W</i>	<i>5</i>				
<i>G46J</i>		<i>03/24/23</i>	<i>1330</i>		<i>W</i>	<i>5</i>				
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.3</i> Corr'd <i>4.2</i>		Therm ID No _____				
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/24/23 e 1445</i>		Received by		Company		
Relinquished by		Company		Date/Time		Received by		Company		
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>		
								Date/Time <i>3/22/23</i> <i>MLB</i>		

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Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact	Project Manager <i>Diana Mockler</i>	Site Contact:	*Date
Company Name <i>Midwest Generation ENE LLC</i>	Tel/Email:	Lab Contact:	Carrier
Address	Analysis Turnaround Time		
City/State/Zip <i>Joliet, IL</i>	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		
Phone	TAT if different from Below _____		
Fax	<input type="checkbox"/> 2 weeks		
Project Name <i>Joliet #9 CCR</i>	<input type="checkbox"/> 1 week		
Site <i>1Q23 + Turbidity</i>	<input type="checkbox"/> 2 days		
P O #	<input type="checkbox"/> 1 day		



500-230703 COC

COC No _____ of _____ COCs
Sampler: _____
For Lab Use Only
Walk-in Client <input type="checkbox"/>
Lab Sampling <input type="checkbox"/>
Job / SDG No <i>500-230703</i>

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N) Perform MS / MSD (Y/N)	500-230703 COC	Sample Specific Notes
<i>G48 S</i>	<i>03/23/23</i>	<i>1013</i>		<i>W</i>	<i>5</i>	<i>Radion 226</i>		
<i>G47 S</i>	<i>03/23/23</i>	<i>1122</i>		<i>W</i>	<i>5</i>	<i>Radion 228</i>		
<i>G45 S</i>	<i>03/23/23</i>	<i>1216</i>		<i>W</i>	<i>5</i>	<i>Combined 226/228</i>		
<i>R32 S</i>	<i>03/23/23</i>	<i>1334</i>		<i>W</i>	<i>5</i>	<i>Metals 14 elements + Hg TDS, FI, Cl, SO4</i>		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample	<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	

Special Instructions/QC Requirements & Comments _____

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No _____	Cooler Temp (°C) Obs'd <i>34</i> Corr'd <i>33</i>	Therm ID No _____
Relinquished by <i>[Signature]</i>	Company <i>EETA</i>	Date/Time <i>03/23/23 1443</i>	Received by <i>[Signature]</i> Company _____ Date/Time _____
Relinquished by _____	Company _____	Date/Time _____	Received by _____ Company _____ Date/Time _____
Relinquished by _____	Company _____	Date/Time _____	Received in Laboratory by <i>[Signature]</i> Company <i>EETA</i> Date/Time <i>3/23/23 1443</i>

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J		COC No: 500-172048.1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1	
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Illinois		Job #: 500-230703-1	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note): NELAP - Illinois		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2S2O3 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:	
Due Date Requested: 4/4/2023		Analysis Requested		Total Number of Containers	
TAT Requested (days):		Perform MS/MSD (Yes or No)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: 3	
PO #:		Field Filtered Sample (Yes or No)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: 3	
WO #:		Matrix (W=Water, S=solid, O=Organic, B=Issue, A=Air)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: 3	
Project #: 50011504		Sample Type (C=Comp, G=grab)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: 3	
SSOW#:		Sample Time		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: 3	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Date		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Preservation Code:		903.0/PreSep_21 Standard Target List	
T05S (500-230703-12)	3/22/23	09:27 Central	Water	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc
R08S (500-230703-13)	3/22/23	12:25 Central	Water		
DUP of R08S (500-230703-14)	3/22/23	12:25 Central	Water		
G46S (500-230703-15)	3/22/23	13:30 Central	Water		

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

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 Roberts* Date/Time: 3/22/23 1520 Company: *ETA*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Date/Time: MAR 23 2023 0910 Company: *GRASR*
 Custody Seal No.: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-230703-1

Login Number: 230703

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	2.9,5.1,2.5,3.5,4.4,4.2,3.3
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 #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G20S

Lab Sample ID: 500-230703-1

Date Collected: 03/14/23 11:28

Matrix: Water

Date Received: 03/14/23 15:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703072	FXG	EET CHI	03/16/23 18:20
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 16:57
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 ¹
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:39
Total/NA	Analysis	SM 2540C		1	702554	CLB	EET CHI	03/15/23 03:07
Total/NA	Analysis	SM 4500 CI- E		1	702875	LP	EET CHI	03/16/23 09:46
Total/NA	Analysis	SM 4500 F C		1	702719	EH	EET CHI	03/15/23 10:44
Total/NA	Analysis	SM 4500 SO4 E		5	703068	LP	EET CHI	03/17/23 09:51
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/14/23 11:28

Client Sample ID: G33S

Lab Sample ID: 500-230703-2

Date Collected: 03/15/23 09:35

Matrix: Water

Date Received: 03/15/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703072	FXG	EET CHI	03/16/23 18:23
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 17:00
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 ¹
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:41
Total/NA	Analysis	SM 2540C		1	703184	CLB	EET CHI	03/20/23 05:41
Total/NA	Analysis	SM 4500 CI- E		1	702875	LP	EET CHI	03/16/23 09:50
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		5	703068	LP	EET CHI	03/17/23 09:52
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/15/23 09:35

Client Sample ID: G44S

Lab Sample ID: 500-230703-3

Date Collected: 03/15/23 10:50

Matrix: Water

Date Received: 03/15/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703072	FXG	EET CHI	03/16/23 18:27
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 17:04
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 ¹
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:43
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:05
Total/NA	Analysis	SM 4500 CI- E		5	702875	LP	EET CHI	03/16/23 09:51
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G44S

Date Collected: 03/15/23 10:50

Date Received: 03/15/23 14:00

Lab Sample ID: 500-230703-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		10	703068	LP	EET CHI	03/17/23 09:53
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/15/23 10:50

Client Sample ID: G31S

Date Collected: 03/15/23 12:57

Date Received: 03/15/23 14:00

Lab Sample ID: 500-230703-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 17:07
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 ¹
Total Recoverable	Analysis	6020A		10	703766	FXG	EET CHI	03/22/23 12:25
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 ¹
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:45
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:12
Total/NA	Analysis	SM 4500 CI- E		10	702875	LP	EET CHI	03/16/23 09:51
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		50	703068	LP	EET CHI	03/17/23 09:53
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/15/23 12:57

Client Sample ID: G30S

Date Collected: 03/17/23 09:26

Date Received: 03/17/23 12:00

Lab Sample ID: 500-230703-5

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703199	BDE	EET CHI	03/20/23 08:05 - 03/20/23 08:35 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 20:22
Total Recoverable	Prep	3005A			703199	BDE	EET CHI	03/20/23 08:05 - 03/20/23 08:35 ¹
Total Recoverable	Analysis	6020A		10	703969	FXG	EET CHI	03/23/23 13:29
Total/NA	Prep	7470A			703272	MJG	EET CHI	03/20/23 10:40 - 03/20/23 12:40 ¹
Total/NA	Analysis	7470A		1	703492	MJG	EET CHI	03/21/23 08:45
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:18
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:20
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		50	703694	LP	EET CHI	03/22/23 11:55
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/17/23 09:26

Client Sample ID: T02S

Date Collected: 03/20/23 09:32

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:20

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T02S

Date Collected: 03/20/23 09:32

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		20	703969	FXG	EET CHI	03/23/23 13:46
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 07:57
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:20
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:20
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		20	703694	LP	EET CHI	03/22/23 11:43
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/20/23 09:32

Client Sample ID: T08S

Date Collected: 03/20/23 11:20

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:23
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		20	703969	FXG	EET CHI	03/23/23 13:50
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 07:59
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:23
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:21
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		50	703694	LP	EET CHI	03/22/23 11:43
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/20/23 11:20

Client Sample ID: T03S

Date Collected: 03/20/23 13:47

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:33
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		10	703969	FXG	EET CHI	03/23/23 13:53
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:12
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:25
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		20	703694	LP	EET CHI	03/22/23 11:43
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/20/23 13:47

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T01S

Lab Sample ID: 500-230703-9

Date Collected: 03/21/23 09:52

Matrix: Water

Date Received: 03/21/23 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:37
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		10	703969	FXG	EET CHI	03/23/23 13:57
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:14
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:28
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703726	EH	EET CHI	03/22/23 09:58
Total/NA	Analysis	SM 4500 SO4 E		20	703694	LP	EET CHI	03/22/23 11:45
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/21/23 09:52

Client Sample ID: T09S

Lab Sample ID: 500-230703-10

Date Collected: 03/21/23 11:58

Matrix: Water

Date Received: 03/21/23 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:40
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		20	703969	FXG	EET CHI	03/23/23 14:00
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:16
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:31
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703726	EH	EET CHI	03/22/23 09:58
Total/NA	Analysis	SM 4500 SO4 E		50	703694	LP	EET CHI	03/22/23 11:45
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/21/23 11:58

Client Sample ID: T06S

Lab Sample ID: 500-230703-11

Date Collected: 03/21/23 13:45

Matrix: Water

Date Received: 03/21/23 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:44
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 ¹
Total Recoverable	Analysis	6020A		5	703969	FXG	EET CHI	03/23/23 14:04
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:18
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:33
Total/NA	Analysis	SM 4500 CI- E		1	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703726	EH	EET CHI	03/22/23 09:58

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: T06S

Date Collected: 03/21/23 13:45

Date Received: 03/21/23 15:45

Lab Sample ID: 500-230703-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		10	703694	LP	EET CHI	03/22/23 11:45
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/21/23 13:45

Client Sample ID: T05S

Date Collected: 03/22/23 09:27

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 15:53
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		50	704828	FXG	EET CHI	03/28/23 17:29
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 19:51
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:20
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:22
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:59
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:27
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 09:27

Client Sample ID: R08S

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 15:57
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		20	704828	FXG	EET CHI	03/28/23 17:33
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 19:54
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:22
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:29
Total/NA	Analysis	SM 4500 CI- E		5	704133	LP	EET CHI	03/24/23 10:40
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		10	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 12:25

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: R08S Dup

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 16:00
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		20	704828	FXG	EET CHI	03/28/23 17:37
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 19:58
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:24
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:35
Total/NA	Analysis	SM 4500 CI- E		5	704133	LP	EET CHI	03/24/23 10:40
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		10	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 12:25

Client Sample ID: G46S

Date Collected: 03/22/23 13:30

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 16:04
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		50	704828	FXG	EET CHI	03/28/23 17:41
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 20:01
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 ¹
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:26
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:37
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:40
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 13:30

Client Sample ID: G48S

Date Collected: 03/23/23 10:13

Date Received: 03/23/23 14:43

Lab Sample ID: 500-230703-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		20	705004	FXG	EET CHI	03/29/23 16:13
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:41
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:07

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: G48S

Lab Sample ID: 500-230703-16

Date Collected: 03/23/23 10:13

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 ¹
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:09
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:12
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:41
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 10:13

Client Sample ID: G47S

Lab Sample ID: 500-230703-17

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		20	705004	FXG	EET CHI	03/29/23 16:17
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:45
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:11
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 ¹
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:12
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:20
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:41
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:06
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 11:22

Client Sample ID: G45S

Lab Sample ID: 500-230703-18

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:21
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:14
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 ¹
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:14
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:25
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:42
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		10	704148	LP	EET CHI	03/24/23 12:28
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 12:16

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

Client Sample ID: R32S

Lab Sample ID: 500-230703-19

Date Collected: 03/23/23 13:34

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		20	705004	FXG	EET CHI	03/29/23 16:25
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:49
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 ¹
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:18
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 ¹
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:16
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:27
Total/NA	Analysis	SM 4500 CI- E		5	704133	LP	EET CHI	03/24/23 10:42
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:28
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 13:34

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





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G20S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-1

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/14/23 Start Purge: 1110 End Purge: 1128
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.12

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.78 (ft) pH 7.52 7.53 7.53 (std.)
Ref. Measuring Pt. TIC SC 650 659 659 (umhos/cm)
Well Elevation *580.87 (ft./msl) Temp. 9.79 9.82 9.82 (°C)
Water Level 55.27 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 525.60 (ft./msl)
Well Bottom Elevation *442.28 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 31°F, Sunny, NW winds e 5-10 mph
Turbidity: 0.39 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 55.27 - 2.78 = 52.49 (ft.)
Levels were taken on 03/14/23 @ 1105

(Updated: 07/14/2022)

Sampler Name (Print): Noc Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G33S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-2

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/15/23 Start Purge: 0920 End Purge: 0935
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.39

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 1.73 (ft) pH 7.40 7.42 7.42 (std.)
Ref. Measuring Pt. TIC SC 639 639 639 (umhos/cm)
Well Elevation *535.67 (ft./msl) Temp. 11.02 11.12 11.12 (°C)
Water Level 30.06 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 505.61 (ft./msl)
Well Bottom Elevation *452.72 (ft./msl)

COMMENTS

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor
Weather Conditions: 35°F, Sunny, S winds @ 5-10 mph
Turbidity: 7.68 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 30.06 - 1.73 = 28.33 (ft)
Levels were taken on 03/15/23 @ 0915

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G44S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-3

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/15/23 Start Purge: 1033 End Purge: 1050
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.55

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.18 (ft) pH 7.09 7.10 7.10 (std.)
Ref. Measuring Pt. TIC SC 1065 1053 1053 (umhos/cm)
Well Elevation *586.68 (ft./msl) Temp. 11.00 10.99 10.99 (°C)
Water Level 78.52 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 508.16 (ft./msl)
Well Bottom Elevation *455.11 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 41°F, Sunny, S winds 10-15 mph
Turbidity: 1.13 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 78.52 - 2.18 = 76.34 (ft)
Levels were taken on 03/15/23 @ 1028

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-4

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/15/23 Start Purge: 1237 End Purge: 1257
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.90

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)																																	
			1st	2nd	Final																														
Stick Up	<u>2.58</u>	(ft)	pH <u>7.38</u>	<u>7.39</u>	<u>7.39</u> (std.)																														
Ref. Measuring Pt.	<u>TIC</u>		SC <u>1490</u>	<u>1492</u>	<u>1492</u> (umhos/cm)																														
Well Elevation	<u>*535.73</u>	(ft./msl)	Temp. <u>12.88</u>	<u>12.88</u>	<u>12.88</u> (°C)																														
Water Level	<u>25.71</u>	(ft.)	Well Stabilization / Recharge Grid																																
Ground Water Elev.	<u>510.02</u>	(ft./msl)	<table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																
Well Bottom Elevation	<u>*453.36</u>	(ft./msl)																																	

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 48°F, Sunny, S winds @ 10-15 mph
Turbidity: 0.79 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 25.71 - 2.58 = 23.13 (ft)
Levels were taken on 03/15/23 @ 1232.

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G30S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-20703-5

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N)
Sampling _____ Bladder Pump Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/17/23 Start Purge: 0908 End Purge: 0926
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.23

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.31 (ft) pH 7.83 7.82 7.82 (std.)
Ref. Measuring Pt. TIC SC 1760 1760 1760 (umhos/cm)
Well Elevation *524.86 (ft./msl) Temp. 6.16 6.22 6.22 (°C)
Water Level 2.09 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 522.77 (ft./msl)
Well Bottom Elevation *462.58 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 32°F, Cloudy, W winds @ 15-20 mph
Turbidity: 2.43 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 2.09 - 2.31 = -0.22 (ft.)
Levels were taken on 03/17/23 @ 0903

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T02S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-16

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/20/23 Start Purge: 0913 End Purge: 0932
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.61

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.33 (ft) pH 7.69 7.66 7.66 (std.)
Ref. Measuring Pt. TIC SC 1312 1317 1317 (umhos/cm)
Well Elevation * 626.12 (ft./msl) Temp. 7.47 7.46 7.46 (°C)
Water Level 136.49 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 489.63 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 36°F, Fair, SW winds e 5-10 mph
Turbidity: 27.25 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 136.49 - 2.33 = 134.16 (ft)
Levels were taken on 03/20/23 @ 0905.
* Total Depth = 172.75

(Updated: 07/14/2022)

Sampler Name (Print): Nae Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-7

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/20/23 Start Purge: 1058 End Purge: 1120
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.57

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.38</u> (ft)	pH <u>8.20</u>	<u>8.22</u>	<u>8.22</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>1442</u>	<u>1439</u>	<u>1439</u>	(umhos/cm)																				
Well Elevation * <u>627.55</u> (ft./msl)	Temp. <u>11.36</u>	<u>11.35</u>	<u>11.35</u>	(°C)																				
Water Level <u>131.74</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>495.81</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																							
Well Bottom Elevation * <u>447.38</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor
Weather Conditions: 41°F, Sunny, SW winds @ 15-20 mph
Turbidity: 4.00 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 131.74 - 2.38 = 129.36 (ft)
Levels were taken on 03/20/23 @ 1040
* Total Deth = 180.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-8

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N)
Sampling _____ Bladder Pump Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/20/23 Start Purge: 1326 End Purge: 1347
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.54

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 3.08 (ft) pH 7.24 7.22 7.22 (std.)
Ref. Measuring Pt. TIC SC 1208 1219 1219 (umhos/cm)
Well Elevation * 629.85 (ft./msl) Temp. 11.62 11.50 11.50 (°C)
Water Level 140.25 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 489.60 (ft./msl)
Well Bottom Elevation * 456.70 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor
Weather Conditions: 51°F, Sunny/Wind, S winds @ 20-25 mph
Turbidity: 1.19 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 140.25 - 3.08 = 137.17 (ft)
Levels were taken on 03/20/23 @ 1320
* Total Depth = 172.95

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago
 2417 Bond St
 University Park, IL 60484-3182
 Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T01S
 Facility: Midwest Generation-Joliet #9 CCR
 Job #: 500-230703-9

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
 Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/21/23 Start Purge: 0930 End Purge: 0952
(2400 Hr. Clock)
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.28

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																															
Stick Up <u>2.48</u> (ft)	pH <u>8.01</u>	<u>8.04</u>	<u>8.04</u>	(std.)																														
Ref. Measuring Pt. <u>TIC</u>	SC <u>1,325</u>	<u>1,318</u>	<u>1,318</u>	(umhos/cm)																														
Well Elevation * <u>621.84</u> (ft./msl)	Temp. <u>9.49</u>	<u>9.45</u>	<u>9.45</u>	(°C)																														
Water Level <u>124.71</u> (ft.)	Well Stabilization / Recharge Grid																																	
Ground Water Elev. <u>497.13</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																	
Well Bottom Elevation * <u>451.46</u> (ft./msl)																																		

COMMENTS

Sample Appearance/Odor: Tan, ^{High} Moderate Turbidity, Slight Odor

Weather Conditions: 44°F, Sunny, S winds @ 10-15 mph

Turbidity: 1374 AU

Other: *Reference Measurement

Depth To Water from L.S. = 124.71 - 2.48 = 122.23 (ft.)

Levels were taken on 03/21/23 @ 0910

* Total Depth = 170.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/21/23 Start Purge: 1140 End Purge: 1158
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH 7.80 7.76 7.76 (std.)
Ref. Measuring Pt. TIC SC 1418 1417 1417 (umhos/cm)
Well Elevation * 603.48 (ft./msl) Temp. 11.53 11.51 11.51 (°C)
Water Level 107.75 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 495.73 (ft./msl)
Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 52°F, Sunny, S winds @ 5-10 mph
Turbidity: 17.35 NTU
Other: *Reference Measurement (updated 02/19/14)
Depth To Water from L.S. = 107.75 - 2.40 = 105.35 (ft)
Levels were taken on 03/21/23 @ 1125
* Total Depth: 158.59

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
 University Park, IL 60484-3182
 Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T06S
 Facility: Midwest Generation-Joliet #9 CCR
 Job #: 500-230703-11

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
 Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/21/23 Start Purge: 1330 End Purge: 1345
(2400 Hr. Clock)
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.48

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final											
Stick Up	<u>2.30</u>	(ft)	pH <u>7.60</u>	<u>7.63</u>	<u>7.63</u>	(std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC <u>707</u>	<u>701</u>	<u>701</u>	(umhos/cm)										
Well Elevation *	<u>621.05</u>	(ft./msl)	Temp. <u>18.35</u>	<u>18.39</u>	<u>18.39</u>	(°C)										
Water Level	<u>118.05</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>503.00</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													
Well Bottom Elevation *	<u>447.94</u>	(ft./msl)														

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
 Weather Conditions: 55°F, Mostly Cloudy, S winds @ 10-15 mph
 Turbidity: 3.17 NTU
 Other: *Reference Measurement
 Depth To Water from L.S. = 118.05 - 2.30 = 115.75 (ft)
 Levels were taken on 03/21/23 @ 1315.
 * Total Deth = 173.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T05S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-12

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/22/23 Start Purge: 0905 End Purge: 0927
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.71

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH 9.69 9.70 9.70 (std.)
Ref. Measuring Pt. TIC SC 2110 2100 2100 (umhos/cm)
Well Elevation * 623.50 (ft./msl) Temp. 8.07 8.09 8.09 (°C)
Water Level 126.26 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 497.24 (ft./msl)
Well Bottom Elevation * 448.35 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 43°F, Cloudy, S winds @ 5-10 mph
Turbidity: 2.15 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 126.26 - 2.40 = 123.86 (ft.)
Levels were taken on 03/22/23 @ 0850
* Total Deth = 175.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-13

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (N)
Sampling _____ Bladder Pump _____ Dedicated (N)

PURGING INFORMATION

Purge Date: 03/22/23 Start Purge: 1210 End Purge: 1225
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.68

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.55 (ft) pH 8.40 8.39 8.39 (std.)
Ref. Measuring Pt. TIC SC 1,006 998 998 (umhos/cm)
Well Elevation *578.66 (ft./msl) Temp. 12.03 12.02 12.02 (°C)
Water Level 70.08 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 508.58 (ft./msl)
Well Bottom Elevation *453.08 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 49°F, Cloudy, S winds @ 10-15 mph
Turbidity: 1.41 NTU
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = 70.08 - 2.55 = 67.53 (ft.)
Levels were taken on 03/22/23 @ 1205

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago
2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S Dup
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-14

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: _____ Start Purge: _____ End Purge: _____
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): _____

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.55 (ft) pH _____ (std.)
Ref. Measuring Pt. TIC SC _____ (umhos/cm)
Well Elevation *578.66 (ft./msl) Temp. _____ (°C)
Water Level _____ (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. _____ (ft./msl)
Well Bottom Elevation *453.08 (ft./msl)

COMMENTS

Sample Appearance/Odor: _____
Weather Conditions: _____
Turbidity: _____
Other: *Reference Measurement (Well ID updated 11-25-15)

Depth To Water from L.S. = _____

~~Levels were~~ Samples taken on 03/22/23 @ 1225

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: _____



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G46S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-15

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/22/23 Start Purge: 1317 End Purge: 1330
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.59

MEASUREMENTS

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final											
Stick Up	<u>2.70</u>	(ft)	pH	<u>7.69</u>	<u>7.70</u>	<u>7.70</u> (std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>1311</u>	<u>1307</u>	<u>1307</u> (umhos/cm)										
Well Elevation	<u>*601.41</u>	(ft./msl)	Temp.	<u>12.05</u>	<u>12.03</u>	<u>12.03</u> (°C)										
Water Level	<u>91.99</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>509.42</u>	(ft./msl)	<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													
Well Bottom Elevation	<u>*453.62</u>	(ft./msl)	<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor
Weather Conditions: 49°F, Cloudy, S winds @ 5-10 mph
Turbidity: 88.61 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 91.99 - 2.70 = 89.29 (ft.)
Levels were taken on 03/22/23 @ 1312

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G48S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-116

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/23/23 Start Purge: 0955 End Purge: 1013
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

MEASUREMENTS

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final											
Stick Up	<u>2.45</u>	(ft)	pH <u>8.68</u>	<u>8.68</u>	<u>8.68</u>	(std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC <u>1346</u>	<u>1352</u>	<u>1352</u>	(umhos/cm)										
Well Elevation	<u>*620.77</u>	(ft./msl)	Temp. <u>9.99</u>	<u>9.98</u>	<u>9.98</u>	(°C)										
Water Level	<u>103.82</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>516.95</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													
Well Bottom Elevation	<u>*468.32</u>	(ft./msl)														

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 41°F, Cloudy, NE winds e 5-10 mph
Turbidity: 3.13 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 103.82 - 2.45 = 101.37 (ft.)
Levels were taken on 03/23/23 @ 0950.

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G47S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-17

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (N)
Sampling _____ Bladder Pump _____ Dedicated (N)

PURGING INFORMATION

Purge Date: 03/23/23 Start Purge: 1102 End Purge: 1122
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final																																
Stick Up	<u>2.50</u>	(ft)	pH	<u>9.20</u>	<u>9.22</u>	<u>9.22</u>	(std.)																														
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>1486</u>	<u>1485</u>	<u>1485</u>	(umhos/cm)																														
Well Elevation	<u>*612.23</u>	(ft./msl)	Temp.	<u>10.80</u>	<u>10.81</u>	<u>10.81</u>	(°C)																														
Water Level	<u>95.75</u>	(ft.)	Well Stabilization / Recharge Grid																																		
Ground Water Elev.	<u>516.48</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																		
Well Bottom Elevation	<u>*459.84</u>	(ft./msl)																																			

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 41°F, Cloudy, NE winds 5-10 mph

Turbidity: 1.12 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 95.75 - 2.50 = 93.25 (ft.)

Levels were taken on 03/23/23 @ 1057

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago
 2417 Bond St
 University Park, IL 60484-3182
 Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G45S
 Facility: Midwest Generation-Joliet #9 CCR
 Job #: 500-230703-18

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
 Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/23/23 Start Purge: 1200 End Purge: 1216
(2400 Hr. Clock)
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.03

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
 Stick Up 2.97 (ft) pH 7.29 7.30 7.30 (std.)
 Ref. Measuring Pt. TIC SC 1021 1024 1024 (umhos/cm)
 Well Elevation *603.80 (ft./msl) Temp. 12.12 12.11 12.11 (°C)
 Water Level 66.41 (ft.) Well Stabilization / Recharge Grid
 Ground Water Elev. 537.39 (ft./msl)
 Well Bottom Elevation *471.05 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
 Weather Conditions: 42°F, Cloudy, N winds @ 5-10 mph
 Turbidity: 1.13 NTU
 Other: *Reference Measurement
 Depth To Water from L.S. = 66.41 - 2.97 = 63.44 (ft)
 Levels were taken on 03/23/23 @ 1155

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-230703-19

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/23/23 Start Purge: 1315 End Purge: 1334
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.98

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.03 (ft) pH 7.56 7.57 7.57 (std.)
Ref. Measuring Pt. TIC SC 929 935 935 (umhos/cm)
Well Elevation *536.97 (ft./msl) Temp. 10.88 10.87 10.87 (°C)
Water Level 22.18 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 514.79 (ft./msl)

Well Bottom Elevation *457.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 43°F, Cloudy, N winds @ 5-10 mph
Turbidity: 1.59 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 22.18 - 2.03 = 20.15 (ft.)
Levels were taken on 03/23/23 @ 1310

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



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

Attn: John Niedzwiecki
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 4/25/2023 12:14:26 PM

JOB DESCRIPTION

Joliet #9 (Quarry) CCR (RAD) 1Q23

JOB NUMBER

500-230703-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Authorized for release by
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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Job ID: 500-230703-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-230703-2

Comments

No additional comments.

Receipt

The samples were received on 3/14/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.5° C, 2.9° C, 3.3° C, 3.5° C, 4.2° C, 4.4° C and 5.1° C.

RAD

Methods 903.0, 9315: Radium-226 batch 604780

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.

G20S (500-230703-1), G33S (500-230703-2), G44S (500-230703-3), G31S (500-230703-4), G30S (500-230703-5), T02S (500-230703-6), T08S (500-230703-7), T03S (500-230703-8), T01S (500-230703-9), T09S (500-230703-10), T06S (500-230703-11), (LCS 160-604780/2-A), (MB 160-604780/1-A) and (500-230703-E-10-D DU)

Method 903.0: Radium-226 batch 605061

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.

T05S (500-230703-12), R08S (500-230703-13), R08S Dup (500-230703-14), G46S (500-230703-15), G48S (500-230703-16), G47S (500-230703-17), G45S (500-230703-18), R32S (500-230703-19), (LCS 160-605061/2-A), (MB 160-605061/1-A), (660-127969-B-7-A) and (660-127969-D-7-A DU)

Method 904.0: Radium-228 prep batch 160-604781:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. T01S (500-230703-9)

Methods 904.0, 9320: Radium-228 prep batch 160-604781:

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.

G20S (500-230703-1), G33S (500-230703-2), G44S (500-230703-3), G31S (500-230703-4), G30S (500-230703-5), T02S (500-230703-6), T08S (500-230703-7), T03S (500-230703-8), T01S (500-230703-9), T09S (500-230703-10), T06S (500-230703-11), (LCS 160-604781/2-A), (MB 160-604781/1-A) and (500-230703-E-10-C DU)

Method 904.0: Radium-228 batch 605065

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.

T05S (500-230703-12), R08S (500-230703-13), R08S Dup (500-230703-14), G46S (500-230703-15), G48S (500-230703-16), G47S (500-230703-17), G45S (500-230703-18), R32S (500-230703-19), (LCS 160-605065/2-A), (MB 160-605065/1-A), (660-127969-B-7-B) and (660-127969-D-7-B DU)

Method 904.0: Radium 228 batch 605065

The method blank (MB) has activity above the MDC and RL. The following associated samples are below the reporting limit for the contaminant therefore, re-analysis is not required. The data have been reported. (MB 160-605065/1-A)

Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Job ID: 500-230703-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 904.0: Radium-228 batch 608035

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. G46S (500-230703-15), G45S (500-230703-18), (LCS 160-608035/2-A), (LCSD 160-608035/3-A) and (MB 160-608035/1-A)

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep-21:

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: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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 #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-230703-1	G20S	Water	03/14/23 11:28	03/14/23 15:52
500-230703-2	G33S	Water	03/15/23 09:35	03/15/23 14:00
500-230703-3	G44S	Water	03/15/23 10:50	03/15/23 14:00
500-230703-4	G31S	Water	03/15/23 12:57	03/15/23 14:00
500-230703-5	G30S	GW	03/17/23 09:26	03/17/23 12:00
500-230703-6	T02S	Water	03/20/23 09:32	03/20/23 15:12
500-230703-7	T08S	Water	03/20/23 11:20	03/20/23 15:12
500-230703-8	T03S	Water	03/20/23 13:47	03/20/23 15:12
500-230703-9	T01S	Water	03/21/23 09:52	03/21/23 15:45
500-230703-10	T09S	Water	03/21/23 11:58	03/21/23 15:45
500-230703-11	T06S	Water	03/21/23 13:45	03/21/23 15:45
500-230703-12	T05S	Water	03/22/23 09:27	03/22/23 14:45
500-230703-13	R08S	Water	03/22/23 12:25	03/22/23 14:45
500-230703-14	R08S Dup	Water	03/22/23 12:25	03/22/23 14:45
500-230703-15	G46S	Water	03/22/23 13:30	03/22/23 14:45
500-230703-16	G48S	Water	03/23/23 10:13	03/23/23 14:43
500-230703-17	G47S	Water	03/23/23 11:22	03/23/23 14:43
500-230703-18	G45S	Water	03/23/23 12:16	03/23/23 14:43
500-230703-19	R32S	Water	03/23/23 13:34	03/23/23 14:43

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G20S

Lab Sample ID: 500-230703-1

Date Collected: 03/14/23 11:28

Matrix: Water

Date Received: 03/14/23 15:52

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	1.33		0.251	0.279	1.00	0.117	pCi/L	03/23/23 10:44	04/17/23 19:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 10:44	04/17/23 19:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.73		0.494	0.519	1.00	0.525	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	83.0		30 - 110					03/23/23 11:01	04/14/23 12:20	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	3.06		0.554	0.589	5.00	0.525	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G33S

Lab Sample ID: 500-230703-2

Date Collected: 03/15/23 09:35

Matrix: Water

Date Received: 03/15/23 14:00

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	0.601		0.233	0.240	1.00	0.246	pCi/L	03/23/23 10:44	04/17/23 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					03/23/23 10:44	04/17/23 09:48	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	0.548	U	0.554	0.556	1.00	0.893	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	77.8		30 - 110					03/23/23 11:01	04/14/23 12:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.15		0.601	0.606	5.00	0.893	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G44S

Lab Sample ID: 500-230703-3

Date Collected: 03/15/23 10:50

Matrix: Water

Date Received: 03/15/23 14:00

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	0.644		0.191	0.200	1.00	0.177	pCi/L	03/23/23 10:44	04/17/23 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					03/23/23 10:44	04/17/23 09:48	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	0.139	U	0.311	0.311	1.00	0.546	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	80.4		30 - 110					03/23/23 11:01	04/14/23 12:20	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	0.783		0.365	0.370	5.00	0.546	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G31S

Lab Sample ID: 500-230703-4

Date Collected: 03/15/23 12:57

Matrix: Water

Date Received: 03/15/23 14:00

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	1.95		0.312	0.358	1.00	0.172	pCi/L	03/23/23 10:44	04/17/23 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 10:44	04/17/23 09:48	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.05		0.423	0.433	1.00	0.519	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	75.5		30 - 110					03/23/23 11:01	04/14/23 12:20	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	2.99		0.526	0.562	5.00	0.519	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G30S

Lab Sample ID: 500-230703-5

Date Collected: 03/17/23 09:26

Matrix: GW

Date Received: 03/17/23 12:00

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	0.882		0.269	0.280	1.00	0.258	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.343	U	0.453	0.454	1.00	0.757	pCi/L	03/23/23 11:01	04/14/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					03/23/23 11:01	04/14/23 12:21	1
Y Carrier	76.3		30 - 110					03/23/23 11:01	04/14/23 12:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.22		0.527	0.533	5.00	0.757	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T02S

Lab Sample ID: 500-230703-6

Date Collected: 03/20/23 09:32

Matrix: Water

Date Received: 03/20/23 15:12

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	0.968		0.288	0.301	1.00	0.276	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.646	U	0.525	0.529	1.00	0.813	pCi/L	03/23/23 11:01	04/14/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					03/23/23 11:01	04/14/23 12:21	1
Y Carrier	80.0		30 - 110					03/23/23 11:01	04/14/23 12:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.61		0.599	0.609	5.00	0.813	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T08S

Lab Sample ID: 500-230703-7

Date Collected: 03/20/23 11:20

Matrix: Water

Date Received: 03/20/23 15:12

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	0.298		0.141	0.144	1.00	0.159	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.271	U	0.434	0.435	1.00	0.740	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	83.0		30 - 110					03/23/23 11:01	04/14/23 14:20	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	0.569	U	0.456	0.458	5.00	0.740	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T03S

Lab Sample ID: 500-230703-8

Date Collected: 03/20/23 13:47

Matrix: Water

Date Received: 03/20/23 15:12

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	0.588		0.182	0.190	1.00	0.153	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.475	U	0.426	0.428	1.00	0.668	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	81.9		30 - 110					03/23/23 11:01	04/14/23 14:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.463	0.468	5.00	0.668	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T01S

Lab Sample ID: 500-230703-9

Date Collected: 03/21/23 09:52

Matrix: Water

Date Received: 03/21/23 15:45

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	2.67		0.628	0.673	1.00	0.451	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.8		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.401	U G	1.34	1.34	1.00	2.37	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.8		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	82.6		30 - 110					03/23/23 11:01	04/14/23 14:20	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	3.08		1.48	1.50	5.00	2.37	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T09S

Lab Sample ID: 500-230703-10

Date Collected: 03/21/23 11:58

Matrix: Water

Date Received: 03/21/23 15:45

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	2.14		0.309	0.364	1.00	0.152	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.723	U	0.482	0.487	1.00	0.728	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	82.2		30 - 110					03/23/23 11:01	04/14/23 14:20	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	2.87		0.573	0.608	5.00	0.728	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T06S

Lab Sample ID: 500-230703-11

Date Collected: 03/21/23 13:45

Matrix: Water

Date Received: 03/21/23 15:45

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	1.06		0.237	0.255	1.00	0.157	pCi/L	03/23/23 10:44	04/17/23 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 10:44	04/17/23 09:50	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	0.535	U	0.440	0.443	1.00	0.683	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	84.1		30 - 110					03/23/23 11:01	04/14/23 14:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.60		0.500	0.511	5.00	0.683	pCi/L		04/18/23 15:12	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T05S

Lab Sample ID: 500-230703-12

Date Collected: 03/22/23 09:27

Matrix: Water

Date Received: 03/22/23 14:45

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	0.359		0.190	0.193	1.00	0.229	pCi/L	03/27/23 09:46	04/19/23 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/27/23 09:46	04/19/23 15:05	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	0.207	U	0.400	0.400	1.00	0.694	pCi/L	03/27/23 10:15	04/17/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/27/23 10:15	04/17/23 12:03	1
Y Carrier	84.1		30 - 110					03/27/23 10:15	04/17/23 12:03	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	0.566	U	0.443	0.444	5.00	0.694	pCi/L		04/20/23 12:21	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: R08S

Lab Sample ID: 500-230703-13

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

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	0.696		0.205	0.214	1.00	0.175	pCi/L	03/27/23 09:46	04/19/23 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					03/27/23 09:46	04/19/23 15:05	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	0.987		0.387	0.397	1.00	0.477	pCi/L	03/27/23 10:15	04/17/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					03/27/23 10:15	04/17/23 12:03	1
Y Carrier	82.6		30 - 110					03/27/23 10:15	04/17/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.68		0.438	0.451	5.00	0.477	pCi/L		04/20/23 12:21	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: R08S Dup

Lab Sample ID: 500-230703-14

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

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	0.684		0.205	0.214	1.00	0.181	pCi/L	03/27/23 09:46	04/19/23 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					03/27/23 09:46	04/19/23 15:05	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	0.440	U	0.343	0.345	1.00	0.525	pCi/L	03/27/23 10:15	04/17/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					03/27/23 10:15	04/17/23 12:03	1
Y Carrier	80.4		30 - 110					03/27/23 10:15	04/17/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.12		0.400	0.406	5.00	0.525	pCi/L		04/20/23 12:21	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G46S

Lab Sample ID: 500-230703-15

Date Collected: 03/22/23 13:30

Matrix: Water

Date Received: 03/22/23 14:45

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	1.25		0.258	0.281	1.00	0.149	pCi/L	03/27/23 09:46	04/19/23 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					03/27/23 09:46	04/19/23 15:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.32		0.414	0.432	1.00	0.483	pCi/L	04/19/23 09:46	04/24/23 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					04/19/23 09:46	04/24/23 13:43	1
Y Carrier	89.0		30 - 110					04/19/23 09:46	04/24/23 13:43	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	2.57		0.488	0.515	5.00	0.483	pCi/L		04/25/23 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G48S

Lab Sample ID: 500-230703-16

Date Collected: 03/23/23 10:13

Matrix: Water

Date Received: 03/23/23 14:43

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	0.547		0.180	0.186	1.00	0.158	pCi/L	03/27/23 09:46	04/19/23 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/27/23 09:46	04/19/23 15:06	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	0.704		0.403	0.408	1.00	0.589	pCi/L	03/27/23 10:15	04/17/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/27/23 10:15	04/17/23 12:05	1
Y Carrier	79.6		30 - 110					03/27/23 10:15	04/17/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.25		0.441	0.448	5.00	0.589	pCi/L		04/20/23 12:21	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G47S

Lab Sample ID: 500-230703-17

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

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	0.579		0.212	0.219	1.00	0.229	pCi/L	03/27/23 09:46	04/19/23 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/27/23 09:46	04/19/23 15:07	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	0.405	U	0.383	0.385	1.00	0.613	pCi/L	03/27/23 10:15	04/17/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/27/23 10:15	04/17/23 12:05	1
Y Carrier	84.5		30 - 110					03/27/23 10:15	04/17/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.984		0.438	0.443	5.00	0.613	pCi/L		04/20/23 12:21	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G45S

Lab Sample ID: 500-230703-18

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

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	1.40		0.282	0.309	1.00	0.185	pCi/L	03/27/23 09:46	04/19/23 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					03/27/23 09:46	04/19/23 15:07	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	0.886		0.460	0.467	1.00	0.659	pCi/L	04/19/23 09:46	04/24/23 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					04/19/23 09:46	04/24/23 13:43	1
Y Carrier	81.9		30 - 110					04/19/23 09:46	04/24/23 13:43	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	2.28		0.540	0.560	5.00	0.659	pCi/L		04/25/23 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: R32S

Lab Sample ID: 500-230703-19

Date Collected: 03/23/23 13:34

Matrix: Water

Date Received: 03/23/23 14:43

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	1.26		0.284	0.306	1.00	0.249	pCi/L	03/27/23 09:46	04/19/23 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110					03/27/23 09:46	04/19/23 15:07	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	0.596		0.333	0.338	1.00	0.471	pCi/L	03/27/23 10:15	04/17/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110					03/27/23 10:15	04/17/23 12:06	1
Y Carrier	87.1		30 - 110					03/27/23 10:15	04/17/23 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.86		0.438	0.456	5.00	0.471	pCi/L		04/20/23 12:21	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Rad

Prep Batch: 604780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	PrecSep-21	
500-230703-2	G33S	Total/NA	Water	PrecSep-21	
500-230703-3	G44S	Total/NA	Water	PrecSep-21	
500-230703-4	G31S	Total/NA	Water	PrecSep-21	
500-230703-5	G30S	Total/NA	GW	PrecSep-21	
500-230703-6	T02S	Total/NA	Water	PrecSep-21	
500-230703-7	T08S	Total/NA	Water	PrecSep-21	
500-230703-8	T03S	Total/NA	Water	PrecSep-21	
500-230703-9	T01S	Total/NA	Water	PrecSep-21	
500-230703-10	T09S	Total/NA	Water	PrecSep-21	
500-230703-11	T06S	Total/NA	Water	PrecSep-21	
MB 160-604780/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604780/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-230703-10 DU	T09S	Total/NA	Water	PrecSep-21	

Prep Batch: 604781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	PrecSep_0	
500-230703-2	G33S	Total/NA	Water	PrecSep_0	
500-230703-3	G44S	Total/NA	Water	PrecSep_0	
500-230703-4	G31S	Total/NA	Water	PrecSep_0	
500-230703-5	G30S	Total/NA	GW	PrecSep_0	
500-230703-6	T02S	Total/NA	Water	PrecSep_0	
500-230703-7	T08S	Total/NA	Water	PrecSep_0	
500-230703-8	T03S	Total/NA	Water	PrecSep_0	
500-230703-9	T01S	Total/NA	Water	PrecSep_0	
500-230703-10	T09S	Total/NA	Water	PrecSep_0	
500-230703-11	T06S	Total/NA	Water	PrecSep_0	
MB 160-604781/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604781/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-230703-10 DU	T09S	Total/NA	Water	PrecSep_0	

Prep Batch: 605061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	PrecSep-21	
500-230703-13	R08S	Total/NA	Water	PrecSep-21	
500-230703-14	R08S Dup	Total/NA	Water	PrecSep-21	
500-230703-15	G46S	Total/NA	Water	PrecSep-21	
500-230703-16	G48S	Total/NA	Water	PrecSep-21	
500-230703-17	G47S	Total/NA	Water	PrecSep-21	
500-230703-18	G45S	Total/NA	Water	PrecSep-21	
500-230703-19	R32S	Total/NA	Water	PrecSep-21	
MB 160-605061/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-605061/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 605065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	PrecSep_0	
500-230703-13	R08S	Total/NA	Water	PrecSep_0	
500-230703-14	R08S Dup	Total/NA	Water	PrecSep_0	
500-230703-16	G48S	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Rad (Continued)

Prep Batch: 605065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-17	G47S	Total/NA	Water	PrecSep_0	
500-230703-19	R32S	Total/NA	Water	PrecSep_0	
MB 160-605065/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-605065/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 608035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-15	G46S	Total/NA	Water	PrecSep_0	
500-230703-18	G45S	Total/NA	Water	PrecSep_0	
MB 160-608035/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-608035/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-608035/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604780/1-A
Matrix: Water
Analysis Batch: 607842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604780

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04951	U	0.110	0.110	1.00	0.196	pCi/L	03/23/23 10:44	04/17/23 09:41	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					03/23/23 10:44	04/17/23 09:41	1
	96.6									

Lab Sample ID: LCS 160-604780/2-A
Matrix: Water
Analysis Batch: 607842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604780

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.55		1.17	1.00	0.172	pCi/L	93	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	30 - 110						
	95.1								

Lab Sample ID: 500-230703-10 DU
Matrix: Water
Analysis Batch: 607841

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 604780

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	2.14		2.409		0.411	1.00	0.171	pCi/L	0.34	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	95.9									

Lab Sample ID: MB 160-605061/1-A
Matrix: Water
Analysis Batch: 608037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605061

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02180	U	0.101	0.101	1.00	0.194	pCi/L	03/27/23 09:46	04/19/23 15:04	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					03/27/23 09:46	04/19/23 15:04	1
	95.6									

Lab Sample ID: LCS 160-605061/2-A
Matrix: Water
Analysis Batch: 608037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605061

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.17		1.15	1.00	0.150	pCi/L	90	75 - 125

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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

Lab Sample ID: LCS 160-605061/2-A
Matrix: Water
Analysis Batch: 608037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605061

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.6	U	30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604781/1-A
Matrix: Water
Analysis Batch: 607421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604781

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06776	U	0.284	0.284	1.00	0.549	pCi/L	03/23/23 11:01	04/14/23 12:15	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.6	U	30 - 110	03/23/23 11:01	04/14/23 12:15	1
Y Carrier	81.5	U	30 - 110	03/23/23 11:01	04/14/23 12:15	1

Lab Sample ID: LCS 160-604781/2-A
Matrix: Water
Analysis Batch: 607421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604781

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.04	9.290	U	1.26	1.00	0.487	pCi/L	116	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.1	U	30 - 110
Y Carrier	85.6	U	30 - 110

Lab Sample ID: 500-230703-10 DU
Matrix: Water
Analysis Batch: 607424

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 604781

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.723	U	1.290	U	0.518	1.00	0.629	pCi/L	0.56	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	95.9	U	30 - 110
Y Carrier	83.0	U	30 - 110

Lab Sample ID: MB 160-605065/1-A
Matrix: Water
Analysis Batch: 607842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605065

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.386	U	0.518	0.563	1.00	0.485	pCi/L	03/27/23 10:15	04/17/23 12:02	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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

Lab Sample ID: MB 160-605065/1-A
Matrix: Water
Analysis Batch: 607842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605065

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	95.6		30 - 110	03/27/23 10:15	04/17/23 12:02	1
Y Carrier	82.2		30 - 110	03/27/23 10:15	04/17/23 12:02	1

Lab Sample ID: LCS 160-605065/2-A
Matrix: Water
Analysis Batch: 607842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605065

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	96.6		30 - 110
Y Carrier	88.2		30 - 110

Lab Sample ID: MB 160-608035/1-A
Matrix: Water
Analysis Batch: 608494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608035

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

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	87.2		30 - 110	04/19/23 09:46	04/24/23 13:42	1
Y Carrier	83.4		30 - 110	04/19/23 09:46	04/24/23 13:42	1

Lab Sample ID: LCS 160-608035/2-A
Matrix: Water
Analysis Batch: 608494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608035

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	86.2		30 - 110
Y Carrier	86.0		30 - 110

Lab Sample ID: LCSD 160-608035/3-A
Matrix: Water
Analysis Batch: 608494

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 608035

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

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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

Lab Sample ID: LCSD 160-608035/3-A
Matrix: Water
Analysis Batch: 608494

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 608035

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	83.0		30 - 110
Y Carrier	85.2		30 - 110

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Chain of Custody Record

522975



Environment Testing
TestAmerica

Address _____ 500-230703 COC

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: <u>Diana Mockler</u>		Site Contact		Date		COC No _____		
Company Name: <u>Midwest Generation EME LLC</u>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs		
Address		Analysis Turnaround Time				Sampler				
City/State/Zip: <u>Joliet, IL</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS				For Lab Use Only				
Phone		TAT if different from Below _____				Walk-in Client				
Fax		<input type="checkbox"/> 2 weeks				Lab Sampling				
Project Name: <u>Joliet #9 COC</u>		<input type="checkbox"/> 1 week				Job / SDG No				
Site: <u>1023</u>		<input type="checkbox"/> 2 days				500-230703				
P O #		<input type="checkbox"/> 1 day				Sample Specific Notes				
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)			
<u>G205</u>	<u>03/14/23</u>	<u>1128</u>		<u>W</u>	<u>5</u>			<u>Radium 226</u>	<u>Radium 228</u>	
								<u>Combined 226/228</u>	<u>Metals 14 elements + Hg</u>	
								<u>TDS, F, Cl, SO4</u>		
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No		Cooler Temp (°C) Obs'd		Corr'd		Therm ID No
Relinquished by: <u>[Signature]</u>		Company: <u>EETA</u>		Date/Time: <u>03/14/23 1552</u>		Received by: _____		Company:		Date/Time:
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>Stephanie Hemond</u>		Company: <u>EETA</u>		Date/Time: <u>3/14/23 1552</u>



Chain of Custody Record

522979



Environment Testing
TestAmerica

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Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name <i>Midwest Generation DME LLC</i>		Tel/Email:		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time				 500-230703 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Fax								Lab Sampling	
Project Name <i>Joliet #9 CCR</i>						Job / SDG No		<i>500-230703</i>	
Site <i>1Q23 + Turbidity</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
								<i>Radium 226</i>	
								<i>Radium 228</i>	
								<i>Combined 226/228</i>	
								<i>Metals 14 elements + Hg</i>	
								<i>TDS, Fl, Cl, SO4</i>	
2	<i>G335</i>	<i>03/15/23</i>	<i>0935</i>		<i>W</i>	<i>5</i>		<i>/ / / / /</i>	
3	<i>G440</i>	<i>03/15/23</i>	<i>1050</i>		<i>W</i>	<i>5</i>		<i>/ / / / /</i>	
4	<i>G310</i>	<i>03/15/23</i>	<i>1257</i>		<i>W</i>	<i>5</i>		<i>/ / / / /</i>	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample									
<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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
<i>5.2 + 5.1</i>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temp (°C) Obs'd		Corr'd		Therm ID No
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/15/23 @ 1400</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by		Company	
						<i>Stephanie Hernandez</i>		<i>EETA</i>	
								<i>3/15/23 1400</i>	

Chain of Custody Record

522980



Environment Testing
TestAmerica



Address _____

500 230703 COC Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact			Project Manager <u>Diana Mackler</u>			Site Contact			Date			COC No					
Company Name <u>Midwest Generation EME LLC</u>			Tel/Email			Lab Contact			Carrier			_____ of _____ COCs					
Address			Analysis Turnaround Time						Sampler			For Lab Use Only					
City/State/Zip <u>Joliet, IL</u>			<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS			Filtered Sample (Y/N) Perform MS/MSD (Y/N) <u>Radium 226</u> <u>Radium 228</u> <u>Combined 226/228</u> <u>Metals 14 elements + Hg</u> <u>TPS, FI, CI, SO₄</u>						Walk-in Client <input type="checkbox"/>			Lab Sampling <input type="checkbox"/>		
Phone			TAT if different from Below _____									Job / SDG No					
Fax			<input type="checkbox"/> 2 weeks									500-230703			Sample Specific Notes		
Project Name <u>Joliet #9 CCR</u>			<input type="checkbox"/> 1 week														
Site <u>1223 + Turbidity</u>			<input type="checkbox"/> 2 days														
PO #			<input type="checkbox"/> 1 day														
Sample Identification					Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.								
<u>G305</u>					<u>03/17/23</u>	<u>0926</u>		<u>W</u>	<u>5</u>								
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other																	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample										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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments:																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No			Cooler Temp (°C) Obs'd <u>2.6 → 2.5</u> 48at			Therm ID No _____						
Relinquished by <u>[Signature]</u>					Company <u>EETA</u>			Date/Time <u>03/17/23 9:20</u>			Received by _____			Company _____		Date/Time _____	
Relinquished by _____					Company _____			Date/Time _____			Received by _____			Company _____		Date/Time _____	
Relinquished by _____					Company _____			Date/Time _____			Received in Laboratory by <u>Stephanie Hammond</u>			Company <u>EETA</u>		Date/Time <u>3/17/23 1200</u>	

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Chain of Custody Record

522978




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact:		Date		COC No			
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact:		Carrier		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, Cl, SO4</i>		 500 230703 COC		Sampler:			
City/State/Zip <i>Soliet, FL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only		Walk-in Client	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling		Job / SDG No	
Fax										<i>500-230703</i>	
Project Name <i>Soliet #9 CCR</i>										Sample Specific Notes	
Site <i>1023 + Turbidity</i>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
<i>T025</i>		<i>03/20/23</i>	<i>0932</i>		<i>W</i>	<i>5</i>					
<i>T085</i>		<i>03/20/23</i>	<i>1120</i>		<i>W</i>	<i>5</i>					
<i>T035</i>		<i>03/20/23</i>	<i>1347</i>		<i>W</i>	<i>5</i>					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>3.6</i> Corr'd <i>3.5</i>		Therm ID No					
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>03/20/23 @ 1512</i>		Received by:		Company: _____ Date/Time: _____			
Relinquished by:		Company:		Date/Time:		Received by:		Company: _____ Date/Time: _____			
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>EETA</i> Date/Time: <i>3/20/23 1512</i>			


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Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact:		*Date		COC No			
Company Name <i>Midwest Generation ENE LLC</i>		Tel/Email:		Lab Contact:		Carrier		_____ of _____ COCs			
Address		Analysis Turnaround Time									
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Phone		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, Cl, SO4</i>		 500-230703 COC		Sampler:		Job / SDG No			
Fax						For Lab Use Only		Walk-in Client		Lab Sampling	
Project Name <i>Joliet #9 CCR</i>						Job / SDG No		500-230703			
Site <i>1Q23 + Turbidity</i>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
<i>G48 S</i>		<i>03/23/23</i>	<i>1013</i>		<i>W</i>	<i>5</i>					
<i>G47 S</i>		<i>03/23/23</i>	<i>1122</i>		<i>W</i>	<i>5</i>					
<i>G45 S</i>		<i>03/23/23</i>	<i>1216</i>		<i>W</i>	<i>5</i>					
<i>R32 S</i>		<i>03/23/23</i>	<i>1334</i>		<i>W</i>	<i>5</i>					
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Possible Hazard Identification		Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>34</i> Corr'd <i>33</i>		Therm ID No _____					
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/23/23 1443</i>		Received by <i>[Signature]</i>		Company <i>EETA</i>			
Relinquished by		Company		Date/Time		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>			

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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		COC No: 500-171885.1	
Client Contact: Diana.Mockler@et.eurofins.com		Phone: Diana.Mockler@et.eurofins.com		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Carrier Tracking No(s):		Job #: 500-230703-2	
Address: 13715 Rider Trail North,		Due Date Requested: 4/11/2023		TAT Requested (days):		Preservation Codes:	
City:		PO #:		WO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
State, Zip: MO, 63045		Project Name: Joliet #9 (Quarry) CCR (RAD)		Project #: 50011504		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 Other:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:		Analysis Requested	
Email:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
314-298-8566(Tel) 314-298-8757(Fax)		3/14/23		11:28 Central		Matrix (Water, Sealed, Onwater, BT=tissue, A=AI)	
Project Name: Joliet #9 (Quarry) CCR (RAD)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		3/14/23		11:28 Central		Water	
SSOW#:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
50011504		3/14/23		11:28 Central		Water	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PreSep_21 Standard Target List		904.0/PreSep_0 Standard Target List	
X		X		X		X	
Ra26Ra228_GFPc		Ra26Ra228_GFPc		Ra26Ra228_GFPc		Ra26Ra228_GFPc	
Total Number of Containers		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:		3		Special Instructions/Note:	
3		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:	

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

Possible Hazard Identification

Unconfirmed

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Stephanie Humondus* Date/Time: 3/15/23 1500

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Custody Seals Intact: Yes No

Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

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:

Received by: _____ Date/Time: _____

Received by: *Sana Wodhington* Date/Time: MAR 16 2023 0925

Received by: _____ Date/Time: _____

Company: *EFTA*

Company: _____

Company: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J	Lab PM: Mockler, Diana J	Lab No: 500-171885.1	Carmer Tracking No(s):						
Shipping/Receiving		Phone: Diana.Mockler@et.eurofinsus.com	E-Mail: Diana.Mockler@et.eurofinsus.com	Page: Page 1 of 1	State of Origin: Illinois						
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois									
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 4/4/2023									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):									
Email:		PO #:									
Project Name: Joliet #9 (Quarry) CCR		WO #:									
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Project #: 50011504									
		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra26Ra28_GFPc	Total Number of Containers	Special Instructions/Note:
G33S (500-230703-2)	3/15/23	09:35 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G44S (500-230703-3)	3/15/23	10:50 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G31S (500-230703-4)	3/15/23	12:57 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Stephanie Hummon</i> Date/Time: 3/15/23 1500 Company: <i>EEA</i></p> <p>Relinquished by: <i>FED EX</i> Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p>Δ Yes Δ No</p>											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements: _____</p> <p>Method of Shipment: _____</p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Received by: <i>Sara Wedington</i> Date/Time: <i>MAR 16 2023 0925</i> Company: <i>EEA</i></p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>											



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Mockler, Diana J Shipping/Receiving: Diana Mockler@et.eurofinsus.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: Project Name: Joliet #9 (Quarry) CCR (RAD) Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sampler: Lab PM: Mockler, Diana J Phone: E-Mail: Diana Mockler@et.eurofinsus.com Accreditations Required (See note): NELAP - Illinois		Camer Tracking No(s): 500-171959.1 Page: Page 1 of 1 Job #: 500-230703-2	
Due Date Requested: 4/11/2023 TAT Requested (days): PO #: WO #: Project #: 50011504 SSOW#:		Analysis Requested			
Sample Identification - Client ID (Lab ID) G30S (500-230703-5)		Sample Date: 3/17/23 Sample Time: 09:26 Central		Sample Type (C=comp, G=grab): Preservation Code: Water	
Matrix (W=water, S=solid, O=wast/soil, B=issue, A=air)		Field Filtered Sample (Yes or No)		Perform MSMSD (Yes or No)	
903.0/PreSep_21 Standard Target List		904.0/PreSep_0 Standard Target List		Ra226Ra228_GFPc	
Total Number of Containers: 3		Special Instructions/Note: Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.		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 Other: 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)	

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 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: _____
 Relinquished by: *[Signature]* Date: 3/20/23 0800
 Relinquished by: *[Signature]* Date: 3/21/23 0930
 Relinquished by: *[Signature]* Date: 3/21/23 0930
 Company: FEDEX
 Company: *[Signature]*
 Company: *[Signature]*
 Company: *[Signature]*
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J		COC No: 500-172048.1					
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@st.eurofinsus.com		Page: Page 1 of 1					
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Illinois		Job #: 500-230703-1					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note): NELAP - Illinois		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 - Na2S2O3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
Project Name: Joliet #9 (Quarry) CCR		Project #: 50011504		Analysis Requested					
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:		Total Number of Containers					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, B=issue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	RA226Ra228_GFPc
T05S (500-230703-12)	3/22/23	09:27 Central	Water	Water	X	X	X	X	X
R08S (500-230703-13)	3/22/23	12:25 Central	Water	Water	X	X	X	X	X
DUP of R08S (500-230703-14)	3/22/23	12:25 Central	Water	Water	X	X	X	X	X
G46S (500-230703-15)	3/22/23	13:30 Central	Water	Water	X	X	X	X	X
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 our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *[Signature]* Date/Time: 3/22/23 15:20 Company: *[Signature]*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____





Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-172018.1
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 #: 500-230703-1
Address: 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - ASNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma L - EDA Z - other (specify)	
City: Earth City	Due Date Requested: 4/4/2023	Analysis Requested	
State, Zip: MO, 63045	TAT Requested (days):	Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Field Filtered Sample (Yes or No)	
Email:	WO #:	Perform MS/MSD (Yes or No)	
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504	903.0/PreSep_21 Standard Target List	
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:	904.0/PreSep_0 Standard Target List	
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:	
T01S (500-230703-9)	Sample Date: 3/21/23	Sample Time: 09:52 Central	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T09S (500-230703-10)	Sample Date: 3/21/23	Sample Time: 11:58 Central	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T06S (500-230703-11)	Sample Date: 3/21/23	Sample Time: 13:45 Central	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 3/21/23 1555 Company: <i>[Signature]</i></p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p>Δ Yes Δ No</p>			



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:								
Client Contact:		Mockler, Diana J	Mockler, Diana J		500-172017.1								
Shipping/Receiving Company:		E-Mail:	E-Mail:	State of Origin:	Page:								
TestAmerica Laboratories, Inc.		Diana.Mockler@et.eurofins.com	Diana.Mockler@et.eurofins.com	Illinois	Page 1 of 1								
Address:		Accreditations Required (See note):		Job #:	500-230703-2								
13715 Rider Trail North,		NELAP - Illinois		Preservation Codes:									
City:	Earth City	Due Date Requested:	4/4/2023	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 Y - Trizma Z - other (Specify)									
State, Zip:	MO, 63045	TAT Requested (days):		Other:									
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	PO #:											
Email:		WO #:											
Project Name:	Joliet #9 (Quarry) CCR (RAD)	Project #:	50011504										
Site:	NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Raz26Raz28 GPC	Total Number of Containers	Special Instructions/Note:
T02S (500-230703-6)		3/20/23	09:32 Central	Water	Water		X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T08S (500-230703-7)		3/20/23	11:20 Central	Water	Water		X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T03S (500-230703-8)		3/20/23	13:47 Central	Water	Water		X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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.</p>													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2													
Empty Kit Relinquished by: _____ Date: _____ Time: _____													
Relinquished by: <i>Stephanie Hemminger</i> Date/Time: 3/21/23 1500 Company: <i>EEIA</i>													
Relinquished by: <i>FEDEx</i> Date/Time: _____ Company: _____													
Relinquished by: _____ Date/Time: _____ Company: _____													
Custody Seals Intact: _____ Custody Seal No.: _____													
Cooler Temperature(s) °C and Other Remarks: _____													
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 Special Instructions/QC Requirements: _____													
Method of Shipment: _____ Date/Time: _____ Company: _____													
Received by: <i>FedEx</i> Date/Time: _____ Company: _____													
Received by: <i>Diana Mockler</i> Date/Time: 3/22/23 0910 Company: <i>EASTC</i>													
Received by: _____ Date/Time: _____ Company: _____													



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-230703-2

Login Number: 230703

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	2.9,5.1,2.5,3.5,4.4,4.2,3.3
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: 500-230703-2

Login Number: 230703

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/16/23 11:14 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	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-230703-2

Login Number: 230703

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 03/21/23 02:11 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: 500-230703-2

Login Number: 230703

List Number: 4

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 03/22/23 02:59 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: 500-230703-2

Login Number: 230703

List Number: 5

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/23/23 10:44 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	

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-230703-2

Login Number: 230703

List Number: 6

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/24/23 01:24 PM

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



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G20S

Date Collected: 03/14/23 11:28

Date Received: 03/14/23 15:52

Lab Sample ID: 500-230703-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607842	FLC	EET SL	04/17/23 19:38
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: G33S

Date Collected: 03/15/23 09:35

Date Received: 03/15/23 14:00

Lab Sample ID: 500-230703-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:48
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: G44S

Date Collected: 03/15/23 10:50

Date Received: 03/15/23 14:00

Lab Sample ID: 500-230703-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:48
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: G31S

Date Collected: 03/15/23 12:57

Date Received: 03/15/23 14:00

Lab Sample ID: 500-230703-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:48
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G30S

Date Collected: 03/17/23 09:26

Date Received: 03/17/23 12:00

Lab Sample ID: 500-230703-5

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:21
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: T02S

Date Collected: 03/20/23 09:32

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:21
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: T08S

Date Collected: 03/20/23 11:20

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: T03S

Date Collected: 03/20/23 13:47

Date Received: 03/20/23 15:12

Lab Sample ID: 500-230703-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: T01S
Date Collected: 03/21/23 09:52
Date Received: 03/21/23 15:45

Lab Sample ID: 500-230703-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: T09S
Date Collected: 03/21/23 11:58
Date Received: 03/21/23 15:45

Lab Sample ID: 500-230703-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: T06S
Date Collected: 03/21/23 13:45
Date Received: 03/21/23 15:45

Lab Sample ID: 500-230703-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:50
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

Client Sample ID: T05S
Date Collected: 03/22/23 09:27
Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:05
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607842	FLC	EET SL	04/17/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: R08S

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:05
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607842	FLC	EET SL	04/17/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

Client Sample ID: R08S Dup

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:05
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607842	FLC	EET SL	04/17/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

Client Sample ID: G46S

Date Collected: 03/22/23 13:30

Date Received: 03/22/23 14:45

Lab Sample ID: 500-230703-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:06
Total/NA	Prep	PrecSep_0			608035	KAC	EET SL	04/19/23 09:46
Total/NA	Analysis	904.0		1	608494	FLC	EET SL	04/24/23 13:43
Total/NA	Analysis	Ra226_Ra228		1	608692	SCB	EET SL	04/25/23 11:50

Client Sample ID: G48S

Date Collected: 03/23/23 10:13

Date Received: 03/23/23 14:43

Lab Sample ID: 500-230703-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:06
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607841	FLC	EET SL	04/17/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Client Sample ID: G47S

Date Collected: 03/23/23 11:22

Date Received: 03/23/23 14:43

Lab Sample ID: 500-230703-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608038	FLC	EET SL	04/19/23 15:07
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607841	FLC	EET SL	04/17/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

Client Sample ID: G45S

Date Collected: 03/23/23 12:16

Date Received: 03/23/23 14:43

Lab Sample ID: 500-230703-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608038	FLC	EET SL	04/19/23 15:07
Total/NA	Prep	PrecSep_0			608035	KAC	EET SL	04/19/23 09:46
Total/NA	Analysis	904.0		1	608494	FLC	EET SL	04/24/23 13:43
Total/NA	Analysis	Ra226_Ra228		1	608692	SCB	EET SL	04/25/23 11:50

Client Sample ID: R32S

Date Collected: 03/23/23 13:34

Date Received: 03/23/23 14:43

Lab Sample ID: 500-230703-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608038	FLC	EET SL	04/19/23 15:07
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607841	FLC	EET SL	04/17/23 12:06
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

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 #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
500-230703-5	G30S	86.1	
Tracer/Carrier Legend			
Ba = Ba Carrier			

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)	
500-230703-1	G20S	86.3	
500-230703-2	G33S	80.9	
500-230703-3	G44S	92.8	
500-230703-4	G31S	91.0	
500-230703-6	T02S	83.5	
500-230703-7	T08S	91.0	
500-230703-8	T03S	84.8	
500-230703-9	T01S	59.8	
500-230703-10	T09S	96.9	
500-230703-10 DU	T09S	95.9	
500-230703-11	T06S	86.3	
500-230703-12	T05S	90.2	
500-230703-13	R08S	92.3	
500-230703-14	R08S Dup	93.0	
500-230703-15	G46S	93.3	
500-230703-16	G48S	97.7	
500-230703-17	G47S	87.4	
500-230703-18	G45S	88.9	
500-230703-19	R32S	93.6	
LCS 160-604780/2-A	Lab Control Sample	95.1	
LCS 160-605061/2-A	Lab Control Sample	96.6	
MB 160-604780/1-A	Method Blank	96.6	
MB 160-605061/1-A	Method Blank	95.6	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-230703-5	G30S	86.1	76.3
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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)
500-230703-1	G20S	86.3	83.0
500-230703-2	G33S	80.9	77.8
500-230703-3	G44S	92.8	80.4
500-230703-4	G31S	91.0	75.5
500-230703-6	T02S	83.5	80.0
500-230703-7	T08S	91.0	83.0
500-230703-8	T03S	84.8	81.9
500-230703-9	T01S	59.8	82.6
500-230703-10	T09S	96.9	82.2
500-230703-10 DU	T09S	95.9	83.0
500-230703-11	T06S	86.3	84.1
500-230703-12	T05S	90.2	84.1
500-230703-13	R08S	92.3	82.6
500-230703-14	R08S Dup	93.0	80.4
500-230703-15	G46S	90.2	89.0
500-230703-16	G48S	97.7	79.6
500-230703-17	G47S	87.4	84.5
500-230703-18	G45S	83.5	81.9
500-230703-19	R32S	93.6	87.1
LCS 160-604781/2-A	Lab Control Sample	95.1	85.6
LCS 160-605065/2-A	Lab Control Sample	96.6	88.2
LCS 160-608035/2-A	Lab Control Sample	86.2	86.0
LCSD 160-608035/3-A	Lab Control Sample Dup	83.0	85.2
MB 160-604781/1-A	Method Blank	96.6	81.5
MB 160-605065/1-A	Method Blank	95.6	82.2
MB 160-608035/1-A	Method Blank	87.2	83.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier