

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 4th quarter 2022 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Table 2. Groundwater Turbidity - 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	
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
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	
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	
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	

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
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
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
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
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

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

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

Generated 1/10/2023 10:52:00 AM

JOB DESCRIPTION

Joliet #9 (Quarry) CCR

JOB NUMBER

500-226905-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

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

Job ID: 500-226905-1

Job ID: 500-226905-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-226905-1**

Comments

No additional comments.

Receipt

The samples were received on 12/15/2022 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.0° C, 0.4° C, 1.4° C, 1.5° C, 3.0° C and 4.8° C.

Metals

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

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-692425 were outside control limits for one or more analytes, see QC Sample Results for detail. 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

Job ID: 500-226905-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	MCAWW	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Job ID: 500-226905-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-226905-1	T09S	Water	12/15/22 09:10	12/15/22 14:35
500-226905-2	T06S	Water	12/15/22 10:38	12/15/22 14:35
500-226905-3	T05S	Water	12/15/22 12:46	12/15/22 14:35
500-226905-4	G33S	Water	12/16/22 10:02	12/16/22 13:35
500-226905-5	R32S	Water	12/16/22 11:24	12/16/22 13:35
500-226905-6	G31S	Water	12/16/22 12:25	12/16/22 13:35
500-226905-7	DUP	Water	12/16/22 12:25	12/16/22 13:35
500-226905-8	G30S	GW	12/19/22 09:18	12/19/22 15:48
500-226905-9	G20S	GW	12/19/22 11:08	12/19/22 15:48
500-226905-10	R08S	GW	12/19/22 14:34	12/19/22 15:48
500-226905-11	T02S	Water	12/20/22 09:30	12/20/22 15:40
500-226905-12	T08S	Water	12/20/22 11:06	12/20/22 15:40
500-226905-13	T01S	Water	12/20/22 12:52	12/20/22 15:40
500-226905-14	G46S	Water	12/20/22 14:24	12/20/22 15:40
500-226905-15	T03S	Water	12/21/22 09:04	12/21/22 14:58
500-226905-16	G44S	Water	12/21/22 09:54	12/21/22 14:58
500-226905-17	G45S	Water	12/21/22 10:54	12/21/22 14:58
500-226905-18	G48S	Water	12/21/22 11:55	12/21/22 14:58
500-226905-19	G47S	Water	12/21/22 13:46	12/21/22 14:58



Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T09S

Lab Sample ID: 500-226905-1

Date Collected: 12/15/22 09:10

Matrix: Water

Date Received: 12/15/22 14:35

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		12/28/22 16:23	12/29/22 20:16	1
Arsenic	0.0022		0.0010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Barium	0.067		0.0025		mg/L		12/28/22 16:23	12/29/22 20:16	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Boron	10		1.0		mg/L		12/28/22 16:23	12/30/22 15:47	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Calcium	130		0.20		mg/L		12/28/22 16:23	12/29/22 20:16	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Cobalt	0.0012		0.0010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Lead	0.00086		0.00050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Lithium	0.11		0.010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Molybdenum	1.2		0.0050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:16	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.71		0.20		mg/L			01/04/23 15:47	1
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			12/20/22 03:50	1
Chloride (SM 4500 Cl- E)	50		20		mg/L			12/19/22 10:39	10
Sulfate (SM 4500 SO4 E)	540		250		mg/L			12/21/22 09:07	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	93.89				ft			12/15/22 09:10	1
Depth to Water (ft from MP)	96.09				ft			12/15/22 09:10	1
Elevation of well (ft from MP)	603.48				ft			12/15/22 09:10	1
Field pH	7.51				SU			12/15/22 09:10	1
Field Temperature	46.2				Degrees F			12/15/22 09:10	1
Field Turbidity	5.04				NTU			12/15/22 09:10	1
Ground Water Elevation	507.19				ft			12/15/22 09:10	1
Specific Conductance	1343				umhos/cm			12/15/22 09:10	1
Well bottom elevation	444.80				ft			12/15/22 09:10	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T06S

Lab Sample ID: 500-226905-2

Date Collected: 12/15/22 10:38

Matrix: Water

Date Received: 12/15/22 14:35

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		12/28/22 16:23	12/29/22 20:20	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Barium	0.034		0.0025		mg/L		12/28/22 16:23	12/29/22 20:20	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Boron	0.91		0.25		mg/L		12/28/22 16:23	12/30/22 15:50	5
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Calcium	84		0.20		mg/L		12/28/22 16:23	12/29/22 20:20	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Lithium	0.023		0.010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Molybdenum	0.015		0.0050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:20	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.61		0.20		mg/L			01/04/23 15:59	1
Total Dissolved Solids (SM 2540C)	520		10		mg/L			12/20/22 03:52	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			12/19/22 10:38	1
Sulfate (SM 4500 SO4 E)	97		50		mg/L			12/21/22 09:07	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	112.14				ft			12/15/22 10:38	1
Depth to Water (ft from MP)	114.44				ft			12/15/22 10:38	1
Elevation of well (ft from MP)	621.05				ft			12/15/22 10:38	1
Field pH	7.23				SU			12/15/22 10:38	1
Field Temperature	47.3				Degrees F			12/15/22 10:38	1
Field Turbidity	0.52				NTU			12/15/22 10:38	1
Ground Water Elevation	506.61				ft			12/15/22 10:38	1
Specific Conductance	708				umhos/cm			12/15/22 10:38	1
Well bottom elevation	447.94				ft			12/15/22 10:38	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T05S

Lab Sample ID: 500-226905-3

Date Collected: 12/15/22 12:46

Matrix: Water

Date Received: 12/15/22 14:35

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		12/28/22 16:23	12/29/22 20:23	1
Arsenic	0.10		0.0010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Barium	0.011		0.0025		mg/L		12/28/22 16:23	12/29/22 20:23	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Boron	13		2.5		mg/L		12/28/22 16:23	12/30/22 15:53	50
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Calcium	3.8		0.20		mg/L		12/28/22 16:23	12/29/22 20:23	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Lithium	0.017		0.010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Molybdenum	1.0		0.0050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Selenium	0.0036		0.0025		mg/L		12/28/22 16:23	12/29/22 20:23	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.9		0.20		mg/L			01/04/23 16:12	1
Total Dissolved Solids (SM 2540C)	1600		10		mg/L			12/20/22 03:55	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			12/19/22 11:07	10
Sulfate (SM 4500 SO4 E)	530		500		mg/L			12/21/22 09:17	100

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	124.62				ft			12/15/22 12:46	1
Depth to Water (ft from MP)	127.02				ft			12/15/22 12:46	1
Elevation of well (ft from MP)	623.50				ft			12/15/22 12:46	1
Field pH	9.75				SU			12/15/22 12:46	1
Field Temperature	45.9				Degrees F			12/15/22 12:46	1
Field Turbidity	2.54				NTU			12/15/22 12:46	1
Ground Water Elevation	496.48				ft			12/15/22 12:46	1
Specific Conductance	2120				umhos/cm			12/15/22 12:46	1
Well bottom elevation	448.35				ft			12/15/22 12:46	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G33S

Lab Sample ID: 500-226905-4

Date Collected: 12/16/22 10:02

Matrix: Water

Date Received: 12/16/22 13:35

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		12/28/22 16:23	12/29/22 20:27	1
Arsenic	0.0014		0.0010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Barium	0.098		0.0025		mg/L		12/28/22 16:23	12/29/22 20:27	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Boron	0.96		0.25		mg/L		12/28/22 16:23	12/30/22 15:57	5
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Calcium	56		0.20		mg/L		12/28/22 16:23	12/29/22 20:27	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Lead	0.0056		0.00050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Lithium	0.034		0.010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Molybdenum	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:27	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.89		0.20		mg/L			01/04/23 16:25	1
Total Dissolved Solids (SM 2540C)	410		10		mg/L			12/20/22 05:12	1
Chloride (SM 4500 Cl- E)	12		2.0		mg/L			12/19/22 10:40	1
Sulfate (SM 4500 SO4 E)	69		50		mg/L			12/21/22 09:08	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	27.99				ft			12/16/22 10:02	1
Depth to Water (ft from MP)	29.72				ft			12/16/22 10:02	1
Elevation of well (ft from MP)	535.67				ft			12/16/22 10:02	1
Field pH	7.48				SU			12/16/22 10:02	1
Field Temperature	50.5				Degrees F			12/16/22 10:02	1
Field Turbidity	20.50				NTU			12/16/22 10:02	1
Ground Water Elevation	505.95				ft			12/16/22 10:02	1
Specific Conductance	668				umhos/cm			12/16/22 10:02	1
Well bottom elevation	452.72				ft			12/16/22 10:02	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: R32S

Lab Sample ID: 500-226905-5

Date Collected: 12/16/22 11:24

Matrix: Water

Date Received: 12/16/22 13:35

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		12/28/22 16:23	12/29/22 20:30	1
Arsenic	0.0021		0.0010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Barium	0.035		0.0025		mg/L		12/28/22 16:23	12/29/22 20:30	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Boron	4.7		0.50		mg/L		12/28/22 16:23	12/30/22 16:00	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Calcium	130		0.20		mg/L		12/28/22 16:23	12/29/22 20:30	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Lithium	0.11		0.010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Molybdenum	0.63		0.0050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:30	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.51		0.20		mg/L			01/04/23 16:37	1
Total Dissolved Solids (SM 2540C)	860		10		mg/L			12/20/22 05:19	1
Chloride (SM 4500 Cl- E)	61		10		mg/L			12/19/22 10:40	5
Sulfate (SM 4500 SO4 E)	400		250		mg/L			12/21/22 09:08	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	16.32				ft			12/16/22 11:24	1
Depth to Water (ft from MP)	18.35				ft			12/16/22 11:24	1
Elevation of well (ft from MP)	536.97				ft			12/16/22 11:24	1
Field pH	7.41				SU			12/16/22 11:24	1
Field Temperature	51.8				Degrees F			12/16/22 11:24	1
Field Turbidity	1.53				NTU			12/16/22 11:24	1
Ground Water Elevation	518.62				ft			12/16/22 11:24	1
Specific Conductance	1009				umhos/cm			12/16/22 11:24	1
Well bottom elevation	457.84				ft			12/16/22 11:24	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

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		12/28/22 16:23	12/29/22 20:34	1
Arsenic	0.0041		0.0010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Barium	0.047		0.0025		mg/L		12/28/22 16:23	12/29/22 20:34	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Boron	5.0		0.50		mg/L		12/28/22 16:23	12/30/22 16:04	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 20:34	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Lithium	0.10		0.010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Molybdenum	0.89		0.0050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:34	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.57		0.20		mg/L			01/04/23 17:15	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/20/22 05:25	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			12/19/22 10:40	10
Sulfate (SM 4500 SO4 E)	450		250		mg/L			12/21/22 09:09	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	22.41				ft			12/16/22 12:25	1
Depth to Water (ft from MP)	24.99				ft			12/16/22 12:25	1
Elevation of well (ft from MP)	535.73				ft			12/16/22 12:25	1
Field pH	7.40				SU			12/16/22 12:25	1
Field Temperature	53.8				Degrees F			12/16/22 12:25	1
Field Turbidity	1.17				NTU			12/16/22 12:25	1
Ground Water Elevation	510.74				ft			12/16/22 12:25	1
Specific Conductance	1429				umhos/cm			12/16/22 12:25	1
Well bottom elevation	453.36				ft			12/16/22 12:25	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

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		12/28/22 16:23	12/29/22 20:37	1
Arsenic	0.0037		0.0010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Barium	0.047		0.0025		mg/L		12/28/22 16:23	12/29/22 20:37	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Boron	4.5		0.50		mg/L		12/28/22 16:23	12/30/22 16:07	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 20:37	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Lithium	0.096		0.010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Molybdenum	0.82		0.0050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:37	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.59		0.20		mg/L			01/04/23 17:28	1
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			12/20/22 05:27	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			12/19/22 10:41	10
Sulfate (SM 4500 SO4 E)	450		250		mg/L			12/21/22 09:10	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	22.41				ft			12/16/22 12:25	1
Depth to Water (ft from MP)	24.99				ft			12/16/22 12:25	1
Elevation of well (ft from MP)	535.73				ft			12/16/22 12:25	1
Field pH	7.40				SU			12/16/22 12:25	1
Field Temperature	53.8				Degrees F			12/16/22 12:25	1
Field Turbidity	1.17				NTU			12/16/22 12:25	1
Ground Water Elevation	510.74				ft			12/16/22 12:25	1
Specific Conductance	1429				umhos/cm			12/16/22 12:25	1
Well bottom elevation	453.36				ft			12/16/22 12:25	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

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		12/28/22 16:23	12/29/22 20:41	1
Arsenic	0.0020		0.0010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Barium	0.046		0.0025		mg/L		12/28/22 16:23	12/29/22 20:41	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Boron	5.1		1.0		mg/L		12/28/22 16:23	12/30/22 16:11	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Calcium	61		0.20		mg/L		12/28/22 16:23	12/29/22 20:41	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Lithium	0.021		0.010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Molybdenum	0.0098		0.0050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:41	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.2		0.20		mg/L			01/04/23 17:41	1
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			12/20/22 05:30	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			12/22/22 10:55	10
Sulfate (SM 4500 SO4 E)	440		250		mg/L			12/21/22 09:10	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0.17				ft			12/19/22 09:18	1
Depth to Water (ft from MP)	2.48				ft			12/19/22 09:18	1
Elevation of well (ft from MP)	524.86				ft			12/19/22 09:18	1
Field pH	7.80				SU			12/19/22 09:18	1
Field Temperature	41.4				Degrees F			12/19/22 09:18	1
Field Turbidity	1.04				NTU			12/19/22 09:18	1
Ground Water Elevation	522.38				ft			12/19/22 09:18	1
Specific Conductance	1740				umhos/cm			12/19/22 09:18	1
Well bottom elevation	462.58				ft			12/19/22 09:18	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G20S

Lab Sample ID: 500-226905-9

Date Collected: 12/19/22 11:08

Matrix: GW

Date Received: 12/19/22 15:48

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		12/28/22 16:23	12/29/22 20:51	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Barium	0.048		0.0025		mg/L		12/28/22 16:23	12/29/22 20:51	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Boron	1.3		0.25		mg/L		12/28/22 16:23	12/30/22 16:21	5
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Calcium	59		0.20		mg/L		12/28/22 16:23	12/29/22 20:51	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Lithium	0.038		0.010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Molybdenum	0.0091		0.0050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:51	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.95		0.20		mg/L			01/04/23 17:54	1
Total Dissolved Solids (SM 2540C)	410		10		mg/L			12/20/22 05:32	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			12/22/22 11:15	1
Sulfate (SM 4500 SO4 E)	57		25		mg/L			12/21/22 09:58	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	69.48				ft			12/19/22 11:08	1
Depth to Water (ft from MP)	72.26				ft			12/19/22 11:08	1
Elevation of well (ft from MP)	580.87				ft			12/19/22 11:08	1
Field pH	7.06				SU			12/19/22 11:08	1
Field Temperature	39.9				Degrees F			12/19/22 11:08	1
Field Turbidity	2.61				NTU			12/19/22 11:08	1
Ground Water Elevation	508.61				ft			12/19/22 11:08	1
Specific Conductance	645				umhos/cm			12/19/22 11:08	1
Well bottom elevation	442.28				ft			12/19/22 11:08	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: R08S

Lab Sample ID: 500-226905-10

Date Collected: 12/19/22 14:34

Matrix: GW

Date Received: 12/19/22 15:48

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		12/28/22 16:23	12/29/22 20:55	1
Arsenic	0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Barium	0.041		0.0025		mg/L		12/28/22 16:23	12/29/22 20:55	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Boron	8.2		1.0		mg/L		12/28/22 16:23	12/30/22 16:24	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 20:55	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Lithium	0.13		0.010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Molybdenum	0.37		0.0050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Selenium	0.010		0.0025		mg/L		12/28/22 16:23	12/29/22 20:55	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.35		0.20		mg/L			01/04/23 18:06	1
Total Dissolved Solids (SM 2540C)	750		10		mg/L			12/20/22 05:35	1
Chloride (SM 4500 Cl- E)	81		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	370		250		mg/L			12/21/22 09:10	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	63.78				ft			12/19/22 14:34	1
Depth to Water (ft from MP)	66.33				ft			12/19/22 14:34	1
Elevation of well (ft from MP)	578.66				ft			12/19/22 14:34	1
Field pH	8.91				SU			12/19/22 14:34	1
Field Temperature	52.3				Degrees F			12/19/22 14:34	1
Field Turbidity	1.01				NTU			12/19/22 14:34	1
Ground Water Elevation	512.33				ft			12/19/22 14:34	1
Specific Conductance	997				umhos/cm			12/19/22 14:34	1
Well bottom elevation	453.08				ft			12/19/22 14:34	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T02S

Lab Sample ID: 500-226905-11

Date Collected: 12/20/22 09:30

Matrix: Water

Date Received: 12/20/22 15:40

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		12/28/22 16:23	12/29/22 20:58	1
Arsenic	0.0049		0.0010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Barium	0.082		0.0025		mg/L		12/28/22 16:23	12/29/22 20:58	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Boron	4.6		0.50		mg/L		12/28/22 16:23	12/30/22 16:28	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Calcium	71		0.20		mg/L		12/28/22 16:23	12/29/22 20:58	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Cobalt	0.0021		0.0010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Lead	0.0029		0.00050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Lithium	0.033		0.010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Molybdenum	0.46		0.0050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:58	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.59		0.20		mg/L			01/04/23 18:19	1
Total Dissolved Solids (SM 2540C)	920		10		mg/L			12/21/22 07:54	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	360		100		mg/L			12/21/22 09:11	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	134.46				ft			12/20/22 09:30	1
Depth to Water (ft from MP)	136.79				ft			12/20/22 09:30	1
Elevation of well (ft from MP)	626.12				ft			12/20/22 09:30	1
Field pH	7.49				SU			12/20/22 09:30	1
Field Temperature	43.7				Degrees F			12/20/22 09:30	1
Field Turbidity	40.60				NTU			12/20/22 09:30	1
Ground Water Elevation	489.33				ft			12/20/22 09:30	1
Specific Conductance	1232				umhos/cm			12/20/22 09:30	1
Well bottom elevation	453.40				ft			12/20/22 09:30	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T08S

Lab Sample ID: 500-226905-12

Date Collected: 12/20/22 11:06

Matrix: Water

Date Received: 12/20/22 15:40

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		12/28/22 16:23	12/29/22 21:02	1
Arsenic	0.019		0.0010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Barium	0.030		0.0025		mg/L		12/28/22 16:23	12/29/22 21:02	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Boron	8.9		1.0		mg/L		12/28/22 16:23	12/30/22 16:31	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Calcium	23		0.20		mg/L		12/28/22 16:23	12/29/22 21:02	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Lithium	0.036		0.010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Molybdenum	0.89		0.0050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:02	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.1		0.20		mg/L			01/04/23 18:32	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/21/22 08:01	1
Chloride (SM 4500 Cl- E)	94		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	490		250		mg/L			12/21/22 09:11	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	129.09				ft			12/20/22 11:06	1
Depth to Water (ft from MP)	131.47				ft			12/20/22 11:06	1
Elevation of well (ft from MP)	627.55				ft			12/20/22 11:06	1
Field pH	7.85				SU			12/20/22 11:06	1
Field Temperature	47.1				Degrees F			12/20/22 11:06	1
Field Turbidity	5.97				NTU			12/20/22 11:06	1
Ground Water Elevation	496.08				ft			12/20/22 11:06	1
Specific Conductance	1413				umhos/cm			12/20/22 11:06	1
Well bottom elevation	447.38				ft			12/20/22 11:06	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T01S

Lab Sample ID: 500-226905-13

Date Collected: 12/20/22 12:52

Matrix: Water

Date Received: 12/20/22 15:40

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		12/28/22 16:23	12/29/22 21:05	1
Arsenic	0.0065		0.0010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Barium	0.051		0.0025		mg/L		12/28/22 16:23	12/29/22 21:05	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Boron	4.3		0.50		mg/L		12/28/22 16:23	12/30/22 16:35	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Calcium	47		0.20		mg/L		12/28/22 16:23	12/29/22 21:05	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Cobalt	0.0024		0.0010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Lead	0.0018		0.00050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Lithium	0.012		0.010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Molybdenum	0.30		0.0050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:05	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.3		0.20		mg/L			01/04/23 18:44	1
Total Dissolved Solids (SM 2540C)	980		10		mg/L			12/21/22 08:07	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	380		250		mg/L			12/21/22 09:11	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	124.14				ft			12/20/22 12:52	1
Depth to Water (ft from MP)	126.62				ft			12/20/22 12:52	1
Elevation of well (ft from MP)	621.84				ft			12/20/22 12:52	1
Field pH	7.46				SU			12/20/22 12:52	1
Field Temperature	46.0				Degrees F			12/20/22 12:52	1
Field Turbidity	671				NTU			12/20/22 12:52	1
Ground Water Elevation	495.22				ft			12/20/22 12:52	1
Specific Conductance	1301				umhos/cm			12/20/22 12:52	1
Well bottom elevation	451.46				ft			12/20/22 12:52	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G46S

Lab Sample ID: 500-226905-14

Date Collected: 12/20/22 14:24

Matrix: Water

Date Received: 12/20/22 15:40

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		12/28/22 16:23	12/29/22 21:09	1
Arsenic	0.12		0.0010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Barium	0.065		0.0025		mg/L		12/28/22 16:23	12/29/22 21:09	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Boron	13		2.5		mg/L		12/28/22 16:23	12/30/22 16:38	50
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 21:09	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Lithium	0.17		0.010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Molybdenum	1.9		0.0050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:09	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.58	F1	0.20		mg/L			01/04/23 18:57	1
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			12/21/22 08:09	1
Chloride (SM 4500 Cl- E)	51		20		mg/L			12/22/22 10:57	10
Sulfate (SM 4500 SO4 E)	670		250		mg/L			12/21/22 09:12	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	91.20				ft			12/20/22 14:24	1
Depth to Water (ft from MP)	93.90				ft			12/20/22 14:24	1
Elevation of well (ft from MP)	601.41				ft			12/20/22 14:24	1
Field pH	7.68				SU			12/20/22 14:24	1
Field Temperature	53.1				Degrees F			12/20/22 14:24	1
Field Turbidity	77.90				NTU			12/20/22 14:24	1
Ground Water Elevation	507.51				ft			12/20/22 14:24	1
Specific Conductance	1530				umhos/cm			12/20/22 14:24	1
Well bottom elevation	453.62				ft			12/20/22 14:24	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: T03S

Lab Sample ID: 500-226905-15

Date Collected: 12/21/22 09:04

Matrix: Water

Date Received: 12/21/22 14:58

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		12/28/22 16:23	12/29/22 21:12	1
Arsenic	0.0011		0.0010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Barium	0.081		0.0025		mg/L		12/28/22 16:23	12/29/22 21:12	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Boron	2.9		0.50		mg/L		12/28/22 16:23	12/30/22 16:41	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Calcium	110		0.20		mg/L		12/28/22 16:23	12/29/22 21:12	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Cobalt	0.0012		0.0010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Lithium	0.028		0.010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Molybdenum	0.34		0.0050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:12	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.52		0.20		mg/L			01/04/23 20:00	1
Total Dissolved Solids (SM 2540C)	960		10		mg/L			12/22/22 04:44	1
Chloride (SM 4500 Cl- E)	91		20		mg/L			12/22/22 10:57	10
Sulfate (SM 4500 SO4 E)	300		100		mg/L			01/04/23 08:54	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.61				ft			12/21/22 09:04	1
Depth to Water (ft from MP)	140.69				ft			12/21/22 09:04	1
Elevation of well (ft from MP)	629.85				ft			12/21/22 09:04	1
Field pH	7.44				SU			12/21/22 09:04	1
Field Temperature	50.9				Degrees F			12/21/22 09:04	1
Field Turbidity	2.03				NTU			12/21/22 09:04	1
Ground Water Elevation	489.16				ft			12/21/22 09:04	1
Specific Conductance	1175				umhos/cm			12/21/22 09:04	1
Well bottom elevation	456.70				ft			12/21/22 09:04	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G44S

Lab Sample ID: 500-226905-16

Date Collected: 12/21/22 09:54

Matrix: Water

Date Received: 12/21/22 14:58

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		12/28/22 16:23	12/29/22 21:15	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Barium	0.069		0.0025		mg/L		12/28/22 16:23	12/29/22 21:15	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Boron	1.9		0.50		mg/L		12/28/22 16:23	12/30/22 16:45	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Calcium	130		0.20		mg/L		12/28/22 16:23	12/29/22 21:15	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Lithium	0.023		0.010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Molybdenum	0.29		0.0050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:15	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.49		0.20		mg/L			01/04/23 21:04	1
Total Dissolved Solids (SM 2540C)	870		10		mg/L			12/22/22 04:52	1
Chloride (SM 4500 Cl- E)	67		20		mg/L			12/22/22 10:57	10
Sulfate (SM 4500 SO4 E)	180		50		mg/L			01/04/23 08:55	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	77.91				ft			12/21/22 09:54	1
Depth to Water (ft from MP)	80.09				ft			12/21/22 09:54	1
Elevation of well (ft from MP)	586.68				ft			12/21/22 09:54	1
Field pH	7.07				SU			12/21/22 09:54	1
Field Temperature	49.6				Degrees F			12/21/22 09:54	1
Field Turbidity	11.70				NTU			12/21/22 09:54	1
Ground Water Elevation	506.59				ft			12/21/22 09:54	1
Specific Conductance	1040				umhos/cm			12/21/22 09:54	1
Well bottom elevation	455.11				ft			12/21/22 09:54	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

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		12/28/22 16:23	12/29/22 21:40	1
Arsenic	0.0095		0.0010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Barium	0.050		0.0025		mg/L		12/28/22 16:23	12/29/22 21:40	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Boron	0.39		0.050		mg/L		12/28/22 16:23	12/30/22 17:09	1
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Calcium	110		0.20		mg/L		12/28/22 16:23	12/29/22 21:40	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Lithium	0.029		0.010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Molybdenum	0.0089		0.0050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:40	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.72		0.20		mg/L			01/04/23 21:17	1
Total Dissolved Solids (SM 2540C)	920		10		mg/L			12/22/22 04:54	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			12/22/22 10:58	10
Sulfate (SM 4500 SO4 E)	190		50		mg/L			01/04/23 08:55	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	64.81				ft			12/21/22 10:54	1
Depth to Water (ft from MP)	67.78				ft			12/21/22 10:54	1
Elevation of well (ft from MP)	603.80				ft			12/21/22 10:54	1
Field pH	7.12				SU			12/21/22 10:54	1
Field Temperature	53.6				Degrees F			12/21/22 10:54	1
Field Turbidity	2.04				NTU			12/21/22 10:54	1
Ground Water Elevation	536.02				ft			12/21/22 10:54	1
Specific Conductance	1232				umhos/cm			12/21/22 10:54	1
Well bottom elevation	471.05				ft			12/21/22 10:54	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

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		12/28/22 16:23	12/29/22 21:43	1
Arsenic	0.014		0.0010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Barium	0.018		0.0025		mg/L		12/28/22 16:23	12/29/22 21:43	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Boron	6.4		1.0		mg/L		12/28/22 16:23	12/30/22 17:12	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Calcium	28		0.20		mg/L		12/28/22 16:23	12/29/22 21:43	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Lithium	0.022		0.010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Molybdenum	0.43		0.0050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:43	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.3		0.20		mg/L			01/04/23 21:30	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/22/22 04:57	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:58	10
Sulfate (SM 4500 SO4 E)	410		100		mg/L			01/04/23 08:55	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	103.16				ft			12/21/22 11:55	1
Depth to Water (ft from MP)	105.61				ft			12/21/22 11:55	1
Elevation of well (ft from MP)	620.77				ft			12/21/22 11:55	1
Field pH	8.66				SU			12/21/22 11:55	1
Field Temperature	48.6				Degrees F			12/21/22 11:55	1
Field Turbidity	3.73				NTU			12/21/22 11:55	1
Ground Water Elevation	515.16				ft			12/21/22 11:55	1
Specific Conductance	1343				umhos/cm			12/21/22 11:55	1
Well bottom elevation	468.32				ft			12/21/22 11:55	1

Client Sample Results

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

Job ID: 500-226905-1

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

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		12/28/22 16:23	12/29/22 21:47	1
Arsenic	0.036		0.0010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Barium	0.014		0.0025		mg/L		12/28/22 16:23	12/29/22 21:47	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Boron	7.0		1.0		mg/L		12/28/22 16:23	12/30/22 17:16	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Calcium	7.9		0.20		mg/L		12/28/22 16:23	12/29/22 21:47	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Lithium	0.044		0.010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Molybdenum	0.59		0.0050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Selenium	0.0028		0.0025		mg/L		12/28/22 16:23	12/29/22 21:47	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.1	F1	0.20		mg/L			01/04/23 21:42	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/22/22 05:00	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:59	10
Sulfate (SM 4500 SO4 E)	450		100		mg/L			01/04/23 08:55	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	94.07				ft			12/21/22 13:46	1
Depth to Water (ft from MP)	96.57				ft			12/21/22 13:46	1
Elevation of well (ft from MP)	612.23				ft			12/21/22 13:46	1
Field pH	9.50				SU			12/21/22 13:46	1
Field Temperature	49.3				Degrees F			12/21/22 13:46	1
Field Turbidity	0.76				NTU			12/21/22 13:46	1
Ground Water Elevation	515.66				ft			12/21/22 13:46	1
Specific Conductance	1404				umhos/cm			12/21/22 13:46	1
Well bottom elevation	459.84				ft			12/21/22 13:46	1

Definitions/Glossary

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

Job ID: 500-226905-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
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

Job ID: 500-226905-1

Metals

Prep Batch: 691401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	7470A	
500-226905-2	T06S	Total/NA	Water	7470A	
500-226905-3	T05S	Total/NA	Water	7470A	
500-226905-4	G33S	Total/NA	Water	7470A	
500-226905-5	R32S	Total/NA	Water	7470A	
500-226905-6	G31S	Total/NA	Water	7470A	
500-226905-7	DUP	Total/NA	Water	7470A	
500-226905-8	G30S	Total/NA	GW	7470A	
500-226905-9	G20S	Total/NA	GW	7470A	
500-226905-10	R08S	Total/NA	GW	7470A	
500-226905-11	T02S	Total/NA	Water	7470A	
500-226905-12	T08S	Total/NA	Water	7470A	
500-226905-13	T01S	Total/NA	Water	7470A	
500-226905-14	G46S	Total/NA	Water	7470A	
500-226905-15	T03S	Total/NA	Water	7470A	
500-226905-16	G44S	Total/NA	Water	7470A	
500-226905-17	G45S	Total/NA	Water	7470A	
500-226905-18	G48S	Total/NA	Water	7470A	
500-226905-19	G47S	Total/NA	Water	7470A	
MB 500-691401/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-691401/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-226905-9 MS	G20S	Total/NA	GW	7470A	
500-226905-9 MSD	G20S	Total/NA	GW	7470A	
500-226905-9 DU	G20S	Total/NA	GW	7470A	

Analysis Batch: 691594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	7470A	691401
500-226905-2	T06S	Total/NA	Water	7470A	691401
500-226905-3	T05S	Total/NA	Water	7470A	691401
500-226905-4	G33S	Total/NA	Water	7470A	691401
500-226905-5	R32S	Total/NA	Water	7470A	691401
500-226905-6	G31S	Total/NA	Water	7470A	691401
500-226905-7	DUP	Total/NA	Water	7470A	691401
500-226905-8	G30S	Total/NA	GW	7470A	691401
500-226905-9	G20S	Total/NA	GW	7470A	691401
500-226905-10	R08S	Total/NA	GW	7470A	691401
500-226905-11	T02S	Total/NA	Water	7470A	691401
500-226905-12	T08S	Total/NA	Water	7470A	691401
500-226905-13	T01S	Total/NA	Water	7470A	691401
500-226905-14	G46S	Total/NA	Water	7470A	691401
500-226905-15	T03S	Total/NA	Water	7470A	691401
500-226905-16	G44S	Total/NA	Water	7470A	691401
500-226905-17	G45S	Total/NA	Water	7470A	691401
500-226905-18	G48S	Total/NA	Water	7470A	691401
500-226905-19	G47S	Total/NA	Water	7470A	691401
MB 500-691401/12-A	Method Blank	Total/NA	Water	7470A	691401
LCS 500-691401/13-A	Lab Control Sample	Total/NA	Water	7470A	691401
500-226905-9 MS	G20S	Total/NA	GW	7470A	691401
500-226905-9 MSD	G20S	Total/NA	GW	7470A	691401
500-226905-9 DU	G20S	Total/NA	GW	7470A	691401

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QC Association Summary

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

Job ID: 500-226905-1

Metals

Prep Batch: 691662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total Recoverable	Water	3005A	
500-226905-2	T06S	Total Recoverable	Water	3005A	
500-226905-3	T05S	Total Recoverable	Water	3005A	
500-226905-4	G33S	Total Recoverable	Water	3005A	
500-226905-5	R32S	Total Recoverable	Water	3005A	
500-226905-6	G31S	Total Recoverable	Water	3005A	
500-226905-7	DUP	Total Recoverable	Water	3005A	
500-226905-8	G30S	Total Recoverable	GW	3005A	
500-226905-9	G20S	Total Recoverable	GW	3005A	
500-226905-10	R08S	Total Recoverable	GW	3005A	
500-226905-11	T02S	Total Recoverable	Water	3005A	
500-226905-12	T08S	Total Recoverable	Water	3005A	
500-226905-13	T01S	Total Recoverable	Water	3005A	
500-226905-14	G46S	Total Recoverable	Water	3005A	
500-226905-15	T03S	Total Recoverable	Water	3005A	
500-226905-16	G44S	Total Recoverable	Water	3005A	
500-226905-17	G45S	Total Recoverable	Water	3005A	
500-226905-18	G48S	Total Recoverable	Water	3005A	
500-226905-19	G47S	Total Recoverable	Water	3005A	
MB 500-691662/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-691662/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-226905-16 MS	G44S	Total Recoverable	Water	3005A	
500-226905-16 MSD	G44S	Total Recoverable	Water	3005A	
500-226905-16 DU	G44S	Total Recoverable	Water	3005A	

Analysis Batch: 692039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total Recoverable	Water	6020A	691662
500-226905-2	T06S	Total Recoverable	Water	6020A	691662
500-226905-3	T05S	Total Recoverable	Water	6020A	691662
500-226905-4	G33S	Total Recoverable	Water	6020A	691662
500-226905-5	R32S	Total Recoverable	Water	6020A	691662
500-226905-6	G31S	Total Recoverable	Water	6020A	691662
500-226905-7	DUP	Total Recoverable	Water	6020A	691662
500-226905-8	G30S	Total Recoverable	GW	6020A	691662
500-226905-9	G20S	Total Recoverable	GW	6020A	691662
500-226905-10	R08S	Total Recoverable	GW	6020A	691662
500-226905-11	T02S	Total Recoverable	Water	6020A	691662
500-226905-12	T08S	Total Recoverable	Water	6020A	691662
500-226905-13	T01S	Total Recoverable	Water	6020A	691662
500-226905-14	G46S	Total Recoverable	Water	6020A	691662
500-226905-15	T03S	Total Recoverable	Water	6020A	691662
500-226905-16	G44S	Total Recoverable	Water	6020A	691662
500-226905-17	G45S	Total Recoverable	Water	6020A	691662
500-226905-18	G48S	Total Recoverable	Water	6020A	691662
500-226905-19	G47S	Total Recoverable	Water	6020A	691662
MB 500-691662/1-A	Method Blank	Total Recoverable	Water	6020A	691662
LCS 500-691662/2-A	Lab Control Sample	Total Recoverable	Water	6020A	691662
500-226905-16 MS	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 MSD	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 DU	G44S	Total Recoverable	Water	6020A	691662

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QC Association Summary

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

Job ID: 500-226905-1

Metals

Analysis Batch: 692247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total Recoverable	Water	6020A	691662
500-226905-2	T06S	Total Recoverable	Water	6020A	691662
500-226905-3	T05S	Total Recoverable	Water	6020A	691662
500-226905-4	G33S	Total Recoverable	Water	6020A	691662
500-226905-5	R32S	Total Recoverable	Water	6020A	691662
500-226905-6	G31S	Total Recoverable	Water	6020A	691662
500-226905-7	DUP	Total Recoverable	Water	6020A	691662
500-226905-8	G30S	Total Recoverable	GW	6020A	691662
500-226905-9	G20S	Total Recoverable	GW	6020A	691662
500-226905-10	R08S	Total Recoverable	GW	6020A	691662
500-226905-11	T02S	Total Recoverable	Water	6020A	691662
500-226905-12	T08S	Total Recoverable	Water	6020A	691662
500-226905-13	T01S	Total Recoverable	Water	6020A	691662
500-226905-14	G46S	Total Recoverable	Water	6020A	691662
500-226905-15	T03S	Total Recoverable	Water	6020A	691662
500-226905-16	G44S	Total Recoverable	Water	6020A	691662
500-226905-17	G45S	Total Recoverable	Water	6020A	691662
500-226905-18	G48S	Total Recoverable	Water	6020A	691662
500-226905-19	G47S	Total Recoverable	Water	6020A	691662
MB 500-691662/1-A	Method Blank	Total Recoverable	Water	6020A	691662
LCS 500-691662/2-A	Lab Control Sample	Total Recoverable	Water	6020A	691662
500-226905-16 MS	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 MSD	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 DU	G44S	Total Recoverable	Water	6020A	691662

General Chemistry

Analysis Batch: 690528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	SM 4500 Cl- E	
500-226905-2	T06S	Total/NA	Water	SM 4500 Cl- E	
500-226905-3	T05S	Total/NA	Water	SM 4500 Cl- E	
500-226905-4	G33S	Total/NA	Water	SM 4500 Cl- E	
500-226905-5	R32S	Total/NA	Water	SM 4500 Cl- E	
500-226905-6	G31S	Total/NA	Water	SM 4500 Cl- E	
500-226905-7	DUP	Total/NA	Water	SM 4500 Cl- E	
MB 500-690528/51	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-690528/52	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-226905-2 MS	T06S	Total/NA	Water	SM 4500 Cl- E	
500-226905-2 MSD	T06S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 690631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	SM 2540C	
500-226905-2	T06S	Total/NA	Water	SM 2540C	
500-226905-3	T05S	Total/NA	Water	SM 2540C	
MB 500-690631/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-690631/2	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

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

Job ID: 500-226905-1

General Chemistry

Analysis Batch: 690652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-4	G33S	Total/NA	Water	SM 2540C	
500-226905-5	R32S	Total/NA	Water	SM 2540C	
500-226905-6	G31S	Total/NA	Water	SM 2540C	
500-226905-7	DUP	Total/NA	Water	SM 2540C	
500-226905-8	G30S	Total/NA	GW	SM 2540C	
500-226905-9	G20S	Total/NA	GW	SM 2540C	
500-226905-10	R08S	Total/NA	GW	SM 2540C	
MB 500-690652/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-690652/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-226905-4 MS	G33S	Total/NA	Water	SM 2540C	
500-226905-4 DU	G33S	Total/NA	Water	SM 2540C	
500-226905-5 DU	R32S	Total/NA	Water	SM 2540C	

Analysis Batch: 690847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-11	T02S	Total/NA	Water	SM 2540C	
500-226905-12	T08S	Total/NA	Water	SM 2540C	
500-226905-13	T01S	Total/NA	Water	SM 2540C	
500-226905-14	G46S	Total/NA	Water	SM 2540C	
MB 500-690847/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-690847/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-226905-11 MS	T02S	Total/NA	Water	SM 2540C	
500-226905-11 DU	T02S	Total/NA	Water	SM 2540C	
500-226905-12 DU	T08S	Total/NA	Water	SM 2540C	

Analysis Batch: 690892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	SM 4500 SO4 E	
500-226905-2	T06S	Total/NA	Water	SM 4500 SO4 E	
500-226905-3	T05S	Total/NA	Water	SM 4500 SO4 E	
500-226905-4	G33S	Total/NA	Water	SM 4500 SO4 E	
500-226905-5	R32S	Total/NA	Water	SM 4500 SO4 E	
500-226905-6	G31S	Total/NA	Water	SM 4500 SO4 E	
500-226905-7	DUP	Total/NA	Water	SM 4500 SO4 E	
500-226905-8	G30S	Total/NA	GW	SM 4500 SO4 E	
500-226905-9	G20S	Total/NA	GW	SM 4500 SO4 E	
500-226905-10	R08S	Total/NA	GW	SM 4500 SO4 E	
500-226905-11	T02S	Total/NA	Water	SM 4500 SO4 E	
500-226905-12	T08S	Total/NA	Water	SM 4500 SO4 E	
500-226905-13	T01S	Total/NA	Water	SM 4500 SO4 E	
500-226905-14	G46S	Total/NA	Water	SM 4500 SO4 E	
MB 500-690892/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-690892/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 691038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-15	T03S	Total/NA	Water	SM 2540C	
500-226905-16	G44S	Total/NA	Water	SM 2540C	
500-226905-17	G45S	Total/NA	Water	SM 2540C	
500-226905-18	G48S	Total/NA	Water	SM 2540C	
500-226905-19	G47S	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-226905-1

General Chemistry (Continued)

Analysis Batch: 691038 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-691038/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-691038/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-226905-15 MS	T03S	Total/NA	Water	SM 2540C	
500-226905-15 DU	T03S	Total/NA	Water	SM 2540C	

Analysis Batch: 691177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-8	G30S	Total/NA	GW	SM 4500 CI- E	
500-226905-9	G20S	Total/NA	GW	SM 4500 CI- E	
500-226905-10	R08S	Total/NA	GW	SM 4500 CI- E	
500-226905-11	T02S	Total/NA	Water	SM 4500 CI- E	
500-226905-12	T08S	Total/NA	Water	SM 4500 CI- E	
500-226905-13	T01S	Total/NA	Water	SM 4500 CI- E	
500-226905-14	G46S	Total/NA	Water	SM 4500 CI- E	
500-226905-15	T03S	Total/NA	Water	SM 4500 CI- E	
500-226905-16	G44S	Total/NA	Water	SM 4500 CI- E	
500-226905-17	G45S	Total/NA	Water	SM 4500 CI- E	
500-226905-18	G48S	Total/NA	Water	SM 4500 CI- E	
500-226905-19	G47S	Total/NA	Water	SM 4500 CI- E	
MB 500-691177/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-691177/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 692425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-15	T03S	Total/NA	Water	SM 4500 SO4 E	
500-226905-16	G44S	Total/NA	Water	SM 4500 SO4 E	
500-226905-17	G45S	Total/NA	Water	SM 4500 SO4 E	
500-226905-18	G48S	Total/NA	Water	SM 4500 SO4 E	
500-226905-19	G47S	Total/NA	Water	SM 4500 SO4 E	
MB 500-692425/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-692425/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-226905-15 MS	T03S	Total/NA	Water	SM 4500 SO4 E	
500-226905-15 MSD	T03S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 692537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	300.0	
500-226905-2	T06S	Total/NA	Water	300.0	
500-226905-3	T05S	Total/NA	Water	300.0	
500-226905-4	G33S	Total/NA	Water	300.0	
500-226905-5	R32S	Total/NA	Water	300.0	
500-226905-6	G31S	Total/NA	Water	300.0	
500-226905-7	DUP	Total/NA	Water	300.0	
500-226905-8	G30S	Total/NA	GW	300.0	
500-226905-9	G20S	Total/NA	GW	300.0	
500-226905-10	R08S	Total/NA	GW	300.0	
500-226905-11	T02S	Total/NA	Water	300.0	
500-226905-12	T08S	Total/NA	Water	300.0	
500-226905-13	T01S	Total/NA	Water	300.0	
500-226905-14	G46S	Total/NA	Water	300.0	
500-226905-15	T03S	Total/NA	Water	300.0	

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QC Association Summary

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

Job ID: 500-226905-1

General Chemistry (Continued)

Analysis Batch: 692537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-16	G44S	Total/NA	Water	300.0	
500-226905-17	G45S	Total/NA	Water	300.0	
500-226905-18	G48S	Total/NA	Water	300.0	
500-226905-19	G47S	Total/NA	Water	300.0	
MB 500-692537/3	Method Blank	Total/NA	Water	300.0	
MB 500-692537/36	Method Blank	Total/NA	Water	300.0	
LCS 500-692537/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-692537/4	Lab Control Sample	Total/NA	Water	300.0	
500-226905-14 MS	G46S	Total/NA	Water	300.0	
500-226905-14 MSD	G46S	Total/NA	Water	300.0	
500-226905-15 MS	T03S	Total/NA	Water	300.0	
500-226905-15 MSD	T03S	Total/NA	Water	300.0	
500-226905-19 MS	G47S	Total/NA	Water	300.0	
500-226905-19 MSD	G47S	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 690197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	Field Sampling	
500-226905-2	T06S	Total/NA	Water	Field Sampling	
500-226905-3	T05S	Total/NA	Water	Field Sampling	
500-226905-4	G33S	Total/NA	Water	Field Sampling	
500-226905-5	R32S	Total/NA	Water	Field Sampling	
500-226905-6	G31S	Total/NA	Water	Field Sampling	
500-226905-7	DUP	Total/NA	Water	Field Sampling	
500-226905-8	G30S	Total/NA	GW	Field Sampling	
500-226905-9	G20S	Total/NA	GW	Field Sampling	
500-226905-10	R08S	Total/NA	GW	Field Sampling	
500-226905-11	T02S	Total/NA	Water	Field Sampling	
500-226905-12	T08S	Total/NA	Water	Field Sampling	
500-226905-13	T01S	Total/NA	Water	Field Sampling	
500-226905-14	G46S	Total/NA	Water	Field Sampling	
500-226905-15	T03S	Total/NA	Water	Field Sampling	
500-226905-16	G44S	Total/NA	Water	Field Sampling	
500-226905-17	G45S	Total/NA	Water	Field Sampling	
500-226905-18	G48S	Total/NA	Water	Field Sampling	
500-226905-19	G47S	Total/NA	Water	Field Sampling	

QC Sample Results

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

Job ID: 500-226905-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-691662/1-A
Matrix: Water
Analysis Batch: 692039

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:09	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Barium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:09	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Calcium	<0.20		0.20		mg/L		12/28/22 16:23	12/29/22 20:09	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Lithium	<0.010		0.010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Molybdenum	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:09	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:09	1

Lab Sample ID: MB 500-691662/1-A
Matrix: Water
Analysis Batch: 692247

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		12/28/22 16:23	12/30/22 15:40	1

Lab Sample ID: LCS 500-691662/2-A
Matrix: Water
Analysis Batch: 692039

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0943		mg/L		94	80 - 120
Barium	2.00	2.09		mg/L		105	80 - 120
Beryllium	0.0500	0.0499		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Calcium	10.0	9.60		mg/L		96	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	1.00	0.988		mg/L		99	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-691662/2-A
Matrix: Water
Analysis Batch: 692247

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 691662

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

Job ID: 500-226905-1

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

Lab Sample ID: 500-226905-16 MS
Matrix: Water
Analysis Batch: 692039

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.522		mg/L		104	75 - 125
Arsenic	<0.0010		0.100	0.0889		mg/L		88	75 - 125
Barium	0.069		2.00	2.10		mg/L		102	75 - 125
Beryllium	<0.0010		0.0500	0.0445		mg/L		89	75 - 125
Cadmium	<0.00050		0.0500	0.0498		mg/L		100	75 - 125
Calcium	130		10.0	133	4	mg/L		11	75 - 125
Chromium	<0.0050		0.200	0.191		mg/L		96	75 - 125
Cobalt	<0.0010		0.500	0.472		mg/L		94	75 - 125
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125
Lithium	0.023		0.500	0.488		mg/L		93	75 - 125
Molybdenum	0.29		1.00	1.28		mg/L		99	75 - 125
Selenium	<0.0025		0.100	0.102		mg/L		102	75 - 125
Thallium	<0.0020		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 500-226905-16 MS
Matrix: Water
Analysis Batch: 692247

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.9		1.00	2.78		mg/L		85	75 - 125

Lab Sample ID: 500-226905-16 MSD
Matrix: Water
Analysis Batch: 692039

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.526		mg/L		105	75 - 125	1	20
Arsenic	<0.0010		0.100	0.0890		mg/L		88	75 - 125	0	20
Barium	0.069		2.00	2.15		mg/L		104	75 - 125	2	20
Beryllium	<0.0010		0.0500	0.0441		mg/L		88	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0502		mg/L		100	75 - 125	1	20
Calcium	130		10.0	133	4	mg/L		12	75 - 125	0	20
Chromium	<0.0050		0.200	0.192		mg/L		96	75 - 125	0	20
Cobalt	<0.0010		0.500	0.467		mg/L		93	75 - 125	1	20
Lead	<0.00050		0.100	0.106		mg/L		106	75 - 125	2	20
Lithium	0.023		0.500	0.479		mg/L		91	75 - 125	2	20
Molybdenum	0.29		1.00	1.27		mg/L		98	75 - 125	0	20
Selenium	<0.0025		0.100	0.102		mg/L		102	75 - 125	0	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	2	20

Lab Sample ID: 500-226905-16 MSD
Matrix: Water
Analysis Batch: 692247

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.9		1.00	2.81		mg/L		88	75 - 125	1	20

QC Sample Results

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

Job ID: 500-226905-1

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

Lab Sample ID: 500-226905-16 DU
Matrix: Water
Analysis Batch: 692039

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.069		0.0685		mg/L		0.5	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	130		127		mg/L		3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	0.023		0.0228		mg/L		2	20
Molybdenum	0.29		0.285		mg/L		0.9	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-226905-16 DU
Matrix: Water
Analysis Batch: 692247

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.9		1.88		mg/L		3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-691401/12-A
Matrix: Water
Analysis Batch: 691594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 691401

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:13	1

Lab Sample ID: LCS 500-691401/13-A
Matrix: Water
Analysis Batch: 691594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 691401

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

Lab Sample ID: 500-226905-9 MS
Matrix: GW
Analysis Batch: 691594

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 691401

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00107		mg/L		107	75 - 125

Lab Sample ID: 500-226905-9 MSD
Matrix: GW
Analysis Batch: 691594

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 691401

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125	1	20

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QC Sample Results

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

Job ID: 500-226905-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-226905-9 DU
 Matrix: GW
 Analysis Batch: 691594

Client Sample ID: G20S
 Prep Type: Total/NA
 Prep Batch: 691401

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-692537/3
 Matrix: Water
 Analysis Batch: 692537

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			01/04/23 13:40	1

Lab Sample ID: MB 500-692537/36
 Matrix: Water
 Analysis Batch: 692537

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			01/04/23 20:39	1

Lab Sample ID: LCS 500-692537/37
 Matrix: Water
 Analysis Batch: 692537

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: LCS 500-692537/4
 Matrix: Water
 Analysis Batch: 692537

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 500-226905-14 MS
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: G46S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.58	F1	0.600	0.983	F1	mg/L		67	80 - 120

Lab Sample ID: 500-226905-14 MSD
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: G46S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Fluoride	0.58	F1	0.600	1.00	F1	mg/L		71	80 - 120	2	20

QC Sample Results

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

Job ID: 500-226905-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-226905-15 MS
Matrix: Water
Analysis Batch: 692537

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.52		0.600	1.10		mg/L		96	80 - 120

Lab Sample ID: 500-226905-15 MSD
Matrix: Water
Analysis Batch: 692537

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.52		0.600	1.10		mg/L		96	80 - 120	0	20

Lab Sample ID: 500-226905-19 MS
Matrix: Water
Analysis Batch: 692537

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.1	F1	0.600	1.51	F1	mg/L		72	80 - 120

Lab Sample ID: 500-226905-19 MSD
Matrix: Water
Analysis Batch: 692537

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.1	F1	0.600	1.50	F1	mg/L		70	80 - 120	0	20

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

Lab Sample ID: MB 500-690631/1
Matrix: Water
Analysis Batch: 690631

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			12/20/22 03:19	1

Lab Sample ID: LCS 500-690631/2
Matrix: Water
Analysis Batch: 690631

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	250		mg/L		100	80 - 120

Lab Sample ID: MB 500-690652/1
Matrix: Water
Analysis Batch: 690652

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			12/20/22 05:07	1

QC Sample Results

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

Job ID: 500-226905-1

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

Lab Sample ID: LCS 500-690652/2
Matrix: Water
Analysis Batch: 690652

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

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

Lab Sample ID: 500-226905-4 MS
Matrix: Water
Analysis Batch: 690652

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	410		250	658		mg/L		101	75 - 125

Lab Sample ID: 500-226905-4 DU
Matrix: Water
Analysis Batch: 690652

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	410		394		mg/L		3	5

Lab Sample ID: 500-226905-5 DU
Matrix: Water
Analysis Batch: 690652

Client Sample ID: R32S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	860		876		mg/L		2	5

Lab Sample ID: MB 500-690847/1
Matrix: Water
Analysis Batch: 690847

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			12/21/22 07:49	1

Lab Sample ID: LCS 500-690847/2
Matrix: Water
Analysis Batch: 690847

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	242		mg/L		97	80 - 120

Lab Sample ID: 500-226905-11 MS
Matrix: Water
Analysis Batch: 690847

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	920		250	1160		mg/L		99	75 - 125

Lab Sample ID: 500-226905-11 DU
Matrix: Water
Analysis Batch: 690847

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	920		920		mg/L		0.4	5

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QC Sample Results

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

Job ID: 500-226905-1

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

Lab Sample ID: 500-226905-12 DU
 Matrix: Water
 Analysis Batch: 690847

Client Sample ID: T08S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1080		mg/L		1	5

Lab Sample ID: MB 500-691038/1
 Matrix: Water
 Analysis Batch: 691038

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			12/22/22 04:39	1

Lab Sample ID: LCS 500-691038/2
 Matrix: Water
 Analysis Batch: 691038

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	240		mg/L		96	80 - 120

Lab Sample ID: 500-226905-15 MS
 Matrix: Water
 Analysis Batch: 691038

Client Sample ID: T03S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	960		250	1250		mg/L		114	75 - 125

Lab Sample ID: 500-226905-15 DU
 Matrix: Water
 Analysis Batch: 691038

Client Sample ID: T03S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	960		944		mg/L		2	5

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 500-690528/51
 Matrix: Water
 Analysis Batch: 690528

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			12/19/22 10:38	1

Lab Sample ID: LCS 500-690528/52
 Matrix: Water
 Analysis Batch: 690528

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

QC Sample Results

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

Job ID: 500-226905-1

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

Lab Sample ID: 500-226905-2 MS
 Matrix: Water
 Analysis Batch: 690528

Client Sample ID: T06S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15		20.0	32.7		mg/L		89	75 - 125

Lab Sample ID: 500-226905-2 MSD
 Matrix: Water
 Analysis Batch: 690528

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
Chloride	15		20.0	32.9		mg/L		89	75 - 125	0	20

Lab Sample ID: MB 500-691177/16
 Matrix: Water
 Analysis Batch: 691177

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			12/22/22 10:52	1

Lab Sample ID: LCS 500-691177/17
 Matrix: Water
 Analysis Batch: 691177

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	20.1		mg/L		101	85 - 115

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-690892/16
 Matrix: Water
 Analysis Batch: 690892

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			12/21/22 09:05	1

Lab Sample ID: LCS 500-690892/17
 Matrix: Water
 Analysis Batch: 690892

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	21.7		mg/L		108	88 - 123

Lab Sample ID: MB 500-692425/16
 Matrix: Water
 Analysis Batch: 692425

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			01/04/23 08:53	1

QC Sample Results

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

Job ID: 500-226905-1

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

Lab Sample ID: LCS 500-692425/17
Matrix: Water
Analysis Batch: 692425

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: 500-226905-15 MS
Matrix: Water
Analysis Batch: 692425

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	300		20.0	311	4	mg/L		75	75 - 125

Lab Sample ID: 500-226905-15 MSD
Matrix: Water
Analysis Batch: 692425

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	300		20.0	308	4	mg/L		63	75 - 125	1	20

Chain of Custody Record

522969




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name <i>Midwest Generation EME LLC</i> Address _____ City/State/Zip <i>Joliet, IL</i> Phone _____ Fax _____ Project Name <i>Joliet #9 CCR</i> Site <i>4A22 CCR + Turbidity</i> P O # _____		Project Manager Tel/Email _____ Analysis Turnaround Time <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		Site Contact Lab Contact: _____ Date: _____			COC No _____ of _____ COCs	
		Carrier _____ <div style="text-align: center;">  500-226905 COC </div>			Sampler For Lab Use Only. Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>900-226905</i>			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N) Perform MS/MSD (Y/N) <i>TDS, FI, Cl, SO4</i> <i>Metals 14 elements + Hg</i> <i>Radium 228</i> <i>Radium 226</i> <i>Combined 226/228</i>	Sample Specific Notes
1	T09S	12/15/22	0910		W	5	/ / / / /	
2	T06S	12/15/22	1038		W	5	/ / / / /	
3	T05S	12/15/22	1246		W	5	/ / / / /	
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: _____								
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>2.4</i> Corr'd <i>1.4</i>		Therm ID No _____		
Relinquished by <i>[Signature]</i>	Company <i>BETA</i>	Date/Time <i>12/15/22 1435</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>BETA</i>	Date/Time <i>12/15/22 1438</i>			

Chain of Custody Record

522970




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		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>TDS, F, Cl, SO4</i> <i>Metals 14 elements + Hg</i> <i>Combined 226/228</i> <i>Radium 228</i> <i>Radium 226</i>		 500-226905 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.		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								500-226905		500-226905	
Project Name <i>Joliet #9 CCR</i>											
Site <i>4A22 GW + Turbidity</i>								Sample Specific Notes			
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
4 <i>G335</i>		<i>12/10/22</i>	<i>1002</i>		<i>W</i>	<i>5</i>					
5 <i>R325</i>		<i>12/16/22</i>	<i>1124</i>		<i>W</i>	<i>5</i>					
6 <i>G315</i>		<i>12/16/22</i>	<i>1225</i>		<i>W</i>	<i>5</i>					
7 <i>DUP of G315</i>		<i>12/16/22</i>	<i>1225</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-Hazardous <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>4.0-3.0</i> Corr'd _____		Therm ID No _____					
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/16/22 e 1335</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>12/16/22 1335</i>			



Address _____

Regulatory Program: DW NPDES RCRA Other

500-226905 COC

TAL-8210

Client Contact		Project Manager			Site Contact		Date		
Company Name <i>Midwest Generation EME 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>Toilet #9 CCR</i>		<input type="checkbox"/> 1 week							
Site <i>4A12 GW + Turbidity</i>		<input type="checkbox"/> 2 days							
P O #		<input type="checkbox"/> 1 day							
								Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling. _____ Job / SDG No. <i>500-226905</i>	
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>G30S</i>		<i>12/19/22</i>	<i>0918</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	
<i>G20S</i>		<i>12/19/22</i>	<i>1108</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	
<i>R08S</i>		<i>12/19/22</i>	<i>1434</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	

8
9
10

10

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

Non Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Return to Client
 Disposal by Lab
 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>2.5</i> Cor'd <i>1.5</i>		Therm ID No _____	
Relinquished by <i>[Signature]</i>	Company <i>EETA</i>	Date/Time <i>12/19/22 1548</i>	Received by <i>[Signature]</i>	Company _____	Date/Time <i>12/19/22 1548</i>		
Relinquished by _____	Company _____	Date/Time _____	Received by _____	Company _____	Date/Time _____		
Relinquished by _____	Company _____	Date/Time _____	Received in Laboratory by _____	Company _____	Date/Time _____		

Chain of Custody Record

522972




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager		Site Contact		Date		COC No	
Comp ny 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>TDS, FI, CI, SO4</i> <i>Radium 228</i> <i>Radon 226</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i>		 500-226905 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	
Project Name <i>Joliet #9 CCR</i>								Lab Sampling	
Site <i>4022 GW + Turbidity</i>								Job / SDG No	
P O #								<i>500-226905</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>11 TO2S</i>		<i>12/20/22</i>	<i>0930</i>		<i>W</i>	<i>5</i>			
<i>12 TO8S</i>		<i>12/20/22</i>	<i>1106</i>		<i>W</i>	<i>5</i>			
<i>13 TO1S</i>		<i>12/20/22</i>	<i>1252</i>		<i>W</i>	<i>5</i>			
<i>14 G46S</i>		<i>12/20/22</i>	<i>1424</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"/> 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>5.8</i> Corr'd <i>4.8</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/20/22 1540</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received by <i>[Signature]</i> Laboratory by		Company <i>EETA</i> Date/Time <i>12/20/22 1540</i>	

Chain of Custody Record

522973



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager			Site Contact			Date		COC No		
Company Name <i>Midwest Generation ENEC</i>		Lab Email			Lab Contact			Carrier		_____ of _____ COCs		
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>TDS, F, Cl, SO4</i> <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i>			 500-226905 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	
Project Name <i>Joliet #9 CCR</i>											Lab Sampling	
Site <i>4022 GW + Turbidity</i>											Job / SDG No	
P O #								<i>500-226905</i>		Sample Specific Notes		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.						
<i>15</i>	<i>T03S</i>		<i>12/21/22</i>	<i>0904</i>	<i>W</i>	<i>5</i>						
<i>16</i>	<i>G44S</i>		<i>12/21/22</i>	<i>0954</i>	<i>W</i>	<i>5</i>						
<i>17</i>	<i>G45S</i>		<i>12/21/22</i>	<i>1054</i>	<i>W</i>	<i>5</i>						
<i>18</i>	<i>G48S</i>		<i>12/21/22</i>	<i>1155</i>	<i>W</i>	<i>5</i>						
<i>19</i>	<i>G47S</i>		<i>12/21/22</i>	<i>1346</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>0.2 20.0</i> Corr'd <i>0.6 20.4</i>		Therm ID No						
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/21/22 1458</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>12/21/22 1458</i>		

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mocker, Diana J		Lab PM: Mocker, Diana J		COC No: 500-168682.1	
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	
Shipping/Receiving		Accreditations Required (See note): NELAP - Illinois		Job #: 500-226905-2		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 1/13/2023		TAT Requested (days):		Analysis Requested	
Address: 13715 Rider Trail North,		PO #:		WO #:		Perform MS/MSD (Yes or No)	
City: Earth City		Project #: 50011504		SSOW#:		Field Filtered Sample (Yes or No)	
State, Zip: MO, 63045		Site: NRG Midwest Generation LSQ Joliet #9 CCR		Matrix (Water, Swab, On-wastecell, BT-tissue, A-AM)		90.0/PreSep_0 Standard Target List	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Sample Date		Sample Time		90.0/PreSep_21 Standard Target List	
Email:		Sample Date		Sample Time		90.0/PreSep_0 Standard Target List	
Project Name: Joliet #9 (Quarry) CCR		Sample Date		Sample Time		Ra26Ra228 GFPC	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Date		Sample Time		Total Number of Containers	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Special Instructions/Note:	
T09S (500-226905-1)		12/15/22		09:10 Central		3 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
T06S (500-226905-2)		12/15/22		10:38 Central		3 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
T05S (500-226905-3)		12/15/22		12:46 Central		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/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:

Empy Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 12/10/22 1130 Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

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



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-168691.1
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 #: 500-226905-1
Address: 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (Specify)	
City: Earth City	State Zip: MO, 63045	Other:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Total Number of Containers	
Email:	WO #:	Analysis Requested	
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)		Field Filtered Sample (Yes or No)	
G33S (500-226905-4)	Sample Date: 12/16/22	Sample Time: 10:02 Central	Perform MS/MSD (Yes or No)
R32S (500-226905-5)	Sample Date: 12/16/22	Sample Time: 11:24 Central	903.0/PreSep_21 Standard Target List
G31S (500-226905-6)	Sample Date: 12/16/22	Sample Time: 12:25 Central	904.0/PreSep_0 Standard Target List
G31S DUP (500-226905-7)	Sample Date: 12/16/22	Sample Time: 12:25 Central	
Matrix (Weaver, Sealed, Onmetal, BT, Tissue, A+Air)		Special Instructions/Note:	
Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
Water		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

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: _____ Method of Shipment: _____
 Relinquished by: *[Signature]* Date/Time: 12/16/22 1400 Company: _____
 Relinquished by: **FED EX** Date/Time: 12/19/22 8:25 Company: **GRSRL**
 Relinquished by: _____ Date/Time: _____ Company: _____

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



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-1

Login Number: 226905

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,3.0,1.5,4.8,0.0,0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: T09S

Date Collected: 12/15/22 09:10

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:16
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 15:47
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:24
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 15:47
Total/NA	Analysis	SM 2540C		1	690631	CLB	EET CHI	12/20/22 03:50
Total/NA	Analysis	SM 4500 CI- E		10	690528	LP	EET CHI	12/19/22 10:39
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:07
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/15/22 09:10

Client Sample ID: T06S

Date Collected: 12/15/22 10:38

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:20
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		5	692247	FXG	EET CHI	12/30/22 15:50
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:26
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 15:59
Total/NA	Analysis	SM 2540C		1	690631	CLB	EET CHI	12/20/22 03:52
Total/NA	Analysis	SM 4500 CI- E		1	690528	LP	EET CHI	12/19/22 10:38
Total/NA	Analysis	SM 4500 SO4 E		10	690892	LP	EET CHI	12/21/22 09:07
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/15/22 10:38

Client Sample ID: T05S

Date Collected: 12/15/22 12:46

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:23
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		50	692247	FXG	EET CHI	12/30/22 15:53
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:32
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 16:12
Total/NA	Analysis	SM 2540C		1	690631	CLB	EET CHI	12/20/22 03:55
Total/NA	Analysis	SM 4500 CI- E		10	690528	LP	EET CHI	12/19/22 11:07

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: T05S

Date Collected: 12/15/22 12:46

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-3

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		100	690892	LP	EET CHI	12/21/22 09:17
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/15/22 12:46

Client Sample ID: G33S

Date Collected: 12/16/22 10:02

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:27
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		5	692247	FXG	EET CHI	12/30/22 15:57
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:35
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 16:25
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:12
Total/NA	Analysis	SM 4500 CI- E		1	690528	LP	EET CHI	12/19/22 10:40
Total/NA	Analysis	SM 4500 SO4 E		10	690892	LP	EET CHI	12/21/22 09:08
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 10:02

Client Sample ID: R32S

Date Collected: 12/16/22 11:24

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:30
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:00
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:37
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 16:37
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:19
Total/NA	Analysis	SM 4500 CI- E		5	690528	LP	EET CHI	12/19/22 10:40
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:08
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 11:24

Client Sample ID: G31S

Date Collected: 12/16/22 12:25

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:34

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: G31S

Date Collected: 12/16/22 12:25

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:04
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:39
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:15
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:25
Total/NA	Analysis	SM 4500 CI- E		10	690528	LP	EET CHI	12/19/22 10:40
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:09
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 12:25

Client Sample ID: DUP

Date Collected: 12/16/22 12:25

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:37
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:07
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:41
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:28
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:27
Total/NA	Analysis	SM 4500 CI- E		10	690528	LP	EET CHI	12/19/22 10:41
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:10
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 12:25

Client Sample ID: G30S

Date Collected: 12/19/22 09:18

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-8

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:41
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 16:11
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:43
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:41
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:30
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:55
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:10
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/19/22 09:18

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: G20S

Lab Sample ID: 500-226905-9

Date Collected: 12/19/22 11:08

Matrix: GW

Date Received: 12/19/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:51
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		5	692247	FXG	EET CHI	12/30/22 16:21
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:45
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:54
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:32
Total/NA	Analysis	SM 4500 CI- E		1	691177	LP	EET CHI	12/22/22 11:15
Total/NA	Analysis	SM 4500 SO4 E		5	690892	LP	EET CHI	12/21/22 09:58
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/19/22 11:08

Client Sample ID: R08S

Lab Sample ID: 500-226905-10

Date Collected: 12/19/22 14:34

Matrix: GW

Date Received: 12/19/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:55
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 16:24
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:18
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:06
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:35
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:10
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/19/22 14:34

Client Sample ID: T02S

Lab Sample ID: 500-226905-11

Date Collected: 12/20/22 09:30

Matrix: Water

Date Received: 12/20/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:58
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:28
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:20
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:19
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 07:54
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: T02S

Date Collected: 12/20/22 09:30

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-11

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		20	690892	LP	EET CHI	12/21/22 09:11
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 09:30

Client Sample ID: T08S

Date Collected: 12/20/22 11:06

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:02
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 16:31
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:22
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:32
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 08:01
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:11
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 11:06

Client Sample ID: T01S

Date Collected: 12/20/22 12:52

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:05
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:35
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:24
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:44
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 08:07
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:11
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 12:52

Client Sample ID: G46S

Date Collected: 12/20/22 14:24

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:09

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: G46S

Date Collected: 12/20/22 14:24

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		50	692247	FXG	EET CHI	12/30/22 16:38
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:26
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:57
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 08:09
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:57
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:12
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 14:24

Client Sample ID: T03S

Date Collected: 12/21/22 09:04

Date Received: 12/21/22 14:58

Lab Sample ID: 500-226905-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:12
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:41
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:28
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 20:00
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:44
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:57
Total/NA	Analysis	SM 4500 SO4 E		20	692425	LP	EET CHI	01/04/23 08:54
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 09:04

Client Sample ID: G44S

Date Collected: 12/21/22 09:54

Date Received: 12/21/22 14:58

Lab Sample ID: 500-226905-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:15
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:45
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:30
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:04
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:52
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:57
Total/NA	Analysis	SM 4500 SO4 E		10	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 09:54

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:40
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692247	FXG	EET CHI	12/30/22 17:09
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:32
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:17
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:54
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:58
Total/NA	Analysis	SM 4500 SO4 E		10	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 10:54

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:43
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 17:12
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:35
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:30
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:57
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:58
Total/NA	Analysis	SM 4500 SO4 E		20	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 11:55

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:47
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 17:16
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:37
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:42
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 05:00
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:59

Lab Chronicle

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

Job ID: 500-226905-1

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	SM 4500 SO4 E		20	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 13:46

* 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: T09S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-1

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: 12/15/22 Start Purge: 0850 End Purge: 0910
(2400 Hr. Clock)

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

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.40 (ft) pH 7.52 7.51 7.51 (std.)

Ref. Measuring Pt. TIC SC 1348 1343 1343 (umhos/cm)

Well Elevation * 603.48 (ft./msl) Temp. 7.95 7.94 7.94 (°C)

Water Level 96.29 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 507.19 (ft./msl)

Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 36°F, Cloudy, SW winds @ 10-15 mph

Turbidity: 5.04 NTU

Other: *Reference Measurement (updated 02/19/14)

Depth To Water from L.S. = 96.29 - 2.40 = 93.89 (ft.)

Levels were taken on 12/15/22 @ 0840

* Total Depth: 158.59

(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: T06S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-221905-2

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: 12/15/22 Start Purge: 1023 End Purge: 1038
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.48

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.30 (ft) pH 7.22 7.23 7.23 (std.)
Ref. Measuring Pt. TIC SC 706 708 708 (umhos/cm)
Well Elevation * 621.05 (ft./msl) Temp. 8.39 8.52 8.52 (°C)
Water Level 114.44 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.61 (ft./msl)
Well Bottom Elevation * 447.94 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 37°F, Cloudy, SW winds e 5-10 mph
Turbidity: 0.52 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 114.44 - 2.30 = 112.14 (ft.)
Levels were taken on 12/15/22 @ 1010
* Total Deth = 173.00

(Updated: 07/14/2022)

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

FIELD FORM 1





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 #: 500-226905-3

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: 12/15/22 Start Purge: 1230 End Purge: 1246
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.52

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH 9.78 9.75 9.75 (std.)
Ref. Measuring Pt. TIC SC 2120 2120 2120 (umhos/cm)
Well Elevation * 623.50 (ft./msl) Temp. 7.70 7.71 7.71 (°C)
Water Level 127.02 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 496.48 (ft./msl)
Well Bottom Elevation * 448.35 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 37°F, Cloudy, SW winds e 5-10 mph
Turbidity: 2.54 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 127.02 - 2.40 = 124.62 (ft.)
Levels were taken on 12/15/22 @ 1215
* Total Deth = 175.00

(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: G33S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-4

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: 12/16/22 Start Purge: 0940 End Purge: 1002
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.57

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 1.73 (ft) pH 7.51 7.48 7.48 (std.)
Ref. Measuring Pt. TIC SC 669 668 668 (umhos/cm)
Well Elevation *535.67 (ft./msl) Temp. 10.27 10.30 10.30 (°C)
Water Level 29.72 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 505.95 (ft./msl)
Well Bottom Elevation *452.72 (ft./msl)

COMMENTS

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor
Weather Conditions: 31°F, Snow, SW winds @ 10-15 mph
Turbidity: 20.50 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 29.72 - 1.73 = 27.99 (ft.)
Levels were taken on 12/16/22 @ 0930

(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 #: 500-221905-5

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: 12/16/22 Start Purge: 1105 End Purge: 1124
(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 7.42 7.41 7.41 (std.)
Ref. Measuring Pt. TIC SC 997 1009 1009 (umhos/cm)
Well Elevation *536.97 (ft./msl) Temp. 11.05 10.99 10.99 (°C)
Water Level 18.35 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 518.62 (ft./msl)
Well Bottom Elevation *457.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 30°F, Cloudy, SW winds e 10-15 mph
Turbidity: 1.53 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 18.35 - 2.03 = 16.32 (ft.)
Levels were taken on 12/16/22 @ 1100

(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: G31S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-6

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: 12/16/22 Start Purge: 1205 End Purge: 1225
(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>7.40</u>	<u>7.40</u>	<u>7.40</u>	(std.)																														
Ref. Measuring Pt.	<u>TIC</u>		SCT <u>123</u>	<u>1429</u>	<u>1429</u>	(umhos/cm)																														
Well Elevation	<u>*535.73</u>	(ft./msl)	Temp. <u>12.08</u>	<u>12.10</u>	<u>12.10</u>	(°C)																														
Water Level	<u>24.99</u>	(ft.)	Well Stabilization / Recharge Grid																																	
Ground Water Elev.	<u>510.74</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: 30°F, Snow Shower, SW winds @ 10-15 mph
Turbidity: 1.17 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 24.99 - 2.58 = 22.41 (ft)
Levels were taken on 12/16/22 @ 1200

(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: G31S Dup
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905 - 7

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 2.58 (ft) pH _____ (std.)
Ref. Measuring Pt. TIC SC _____ (umhos/cm)
Well Elevation *535.73 (ft./msl) Temp. _____ (°C)
Water Level _____ (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. _____ (ft./msl)
Well Bottom Elevation *453.36 (ft./msl)

COMMENTS

Sample Appearance/Odor: _____
Weather Conditions: _____
Turbidity: _____
Other: *Reference Measurement
Depth To Water from L.S. = _____
Levels were taken on _____ @ _____

(Updated: 07/14/2022)

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

FIELD FORM 1





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 #: 500-221905-8

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: 12/19/22 Start Purge: 0900 End Purge: 0918
(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 7.79 7.80 7.80 (std.)
Ref. Measuring Pt. TIC SC 1,730 1,740 1,740 (umhos/cm)
Well Elevation *524.86 (ft./msl) Temp. 5.30 5.18 5.18 (°C)
Water Level 2.48 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 522.38 (ft./msl)
Well Bottom Elevation *462.58 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 16°F, Sunny, SW winds e 0-5 mph
Turbidity: 1.04 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 2.48 - 2.31 = 0.17 (ft.)
Levels were taken on 12/19/22 @ 0855

(Updated: 07/14/2022)

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





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 #: 500-226905-9

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: 12/19/22 Start Purge: 1050 End Purge: 1108
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.12

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final																					
Stick Up	<u>2.78</u>	(ft)	pH	<u>7.07</u>	<u>7.06</u>	<u>7.06</u> (std.)																				
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>643</u>	<u>645</u>	<u>645</u> (umhos/cm)																				
Well Elevation	<u>*580.87</u>	(ft./msl)	Temp.	<u>4.40</u>	<u>4.39</u>	<u>4.39</u> (°C)																				
Water Level	<u>72.26</u>	(ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev.	<u>508.61</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> </table>																							
Well Bottom Elevation	<u>*442.28</u>	(ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 21°F, Sunny, Calm winds
Turbidity: 2.61 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 72.26 - 2.78 = 69.48 (ft.)
Levels were taken on 12/19/22 @ 1040

(Updated: 07/14/2022)

Sampler Name (Print): Noc 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 #: 500-226905-10

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: 12/19/22 Start Purge: 1420 End Purge: 1434
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final																					
Stick Up	<u>2.55</u>	(ft)	pH	<u>8.90</u>	<u>8.91</u>	<u>8.91</u> (std.)																				
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>991</u>	<u>997</u>	<u>997</u> (umhos/cm)																				
Well Elevation	<u>*578.66</u>	(ft./msl)	Temp.	<u>11.36</u>	<u>11.33</u>	<u>11.33</u> (°C)																				
Water Level	<u>66.33</u>	(ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev.	<u>512.33</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> </table>																							
Well Bottom Elevation	<u>*453.08</u>	(ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 27°F, Mostly Cloudy, Calm winds
Turbidity: 1.01 NTU
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = 66.33 - 2.55 = 63.78
Levels were taken on 12/19/22 @ 1410

(Updated: 07/14/2022)

Sampler Name (Print): Nbc 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 #: 500-226905-11

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

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 0905 End Purge: 0930
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.81

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.33 (ft) pH 7.53 7.49 7.49 (std.)
Ref. Measuring Pt. TIC SC 1230 1232 1232 (umhos/cm)
Well Elevation * 626.12 (ft./msl) Temp. 6.62 6.49 6.49 (°C)
Water Level 136.79 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 489.33 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)

COMMENTS

Sample Appearance/Odor: Gray, Moderate Turbidity, No Odor
Weather Conditions: 28°F, Mostly Cloudy, S winds e 0-5 mph
Turbidity: 40.60 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 136.79 - 2.33 = 134.46 (ft.)
Levels were taken on 12/20/22 @ 0850
* Total Depth = 172.75

(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: T08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-12

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

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 1050 End Purge: 1106
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.41

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.38 (ft) pH 7.84 7.85 7.85 (std.)
Ref. Measuring Pt. TIC SC 1411 1413 1413 (umhos/cm)
Well Elevation * 627.55 (ft./msl) Temp. 8.36 8.37 8.37 (°C)
Water Level 131.47 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 496.08 (ft./msl)

Well Bottom Elevation * 447.38 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor
Weather Conditions: 34°F, Cloudy, W winds @ 5-10 mph
Turbidity: 5.97 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 131.47 - 2.38 = 129.09 (ft.)
Levels were taken on 12/20/22 @ 1035.
* 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: T01S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-13

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

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 1235 End Purge: 1252
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.22

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.48 (ft) pH 7.47 7.46 7.46 (std.)
Ref. Measuring Pt. TIC SC 1306 1301 1301 (umhos/cm)
Well Elevation * 621.84 (ft./msl) Temp. 7.99 7.97 7.97 (°C)
Water Level 126.62 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 495.22 (ft./msl)
Well Bottom Elevation * 451.46 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, High Turbidity, Slight Odor
Weather Conditions: 32°F, Cloudy, NW winds @ 0-5 mph
Turbidity: 671 AU
Other: *Reference Measurement
Depth To Water from L.S. = 126.62 - 2.48 = 124.14 (ft.)
Levels were taken on 12/20/22 @ 1220
* Total Depth = 170.00

(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: G46S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-221905-14

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: 12/20/22 Start Purge: 1410 End Purge: 1424
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

MEASUREMENTS

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final																					
Stick Up	<u>2.70</u>	(ft)	pH	<u>7.66</u>	<u>7.68</u>	<u>7.68</u> (std.)																				
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>1530</u>	<u>1530</u>	<u>1530</u> (umhos/cm)																				
Well Elevation	<u>*601.41</u>	(ft./msl)	Temp.	<u>11.58</u>	<u>11.72</u>	<u>11.72</u> (°C)																				
Water Level	<u>93.90</u>	(ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev.	<u>507.51</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>*453.62</u>	(ft./msl)																								

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor
Weather Conditions: 33°F, Cloudy, NW winds @ 0-5 mph
Turbidity: 77.90 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 93.90 - 2.70 = 91.20 (ft)
Levels were taken on 12/20/22 @ 1405

(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 #: 500-220905-15

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: 12/21/22 Start Purge: 0850 End Purge: 0904
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.36

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 3.08 (ft) pH 7.42 7.44 7.44 (std.)
Ref. Measuring Pt. TIC SC 1172 1175 1175 (umhos/cm)
Well Elevation * 629.85 (ft./msl) Temp. 10.59 10.55 10.55 (°C)
Water Level 140.69 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 489.16 (ft./msl)
Well Bottom Elevation * 456.70 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor
Weather Conditions: 22°F, Cloudy, N winds @ 0-5 mph
Turbidity: 2.03 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 140.69 - 3.08 = 137.61 (ft.)
Levels were taken on 12/21/22 @ 0845
* Total Depth = 172.95

(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 #: 500-226905-16

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: 12/21/22 Start Purge: 0938 End Purge: 0954
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.52

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.18 (ft) pH 7.08 7.07 7.07 (std.)
Ref. Measuring Pt. TIC SC 1037 1040 1040 (umhos/cm)
Well Elevation *586.68 (ft./msl) Temp. 9.84 9.83 9.83 (°C)
Water Level 80.09 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.59 (ft./msl)
Well Bottom Elevation *455.11 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 23°F, Cloudy, Calm winds
Turbidity: 11.70 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 80.09 - 2.18 = 77.91 (ft)
Levels were taken on 12/21/22 @ 0930

(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 #: 500-226905-17

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: 12/21/22 Start Purge: 1038 End Purge: 1054
(2400 Hr. Clock)
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.03

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.97</u> (ft)	pH <u>7.11</u>	<u>7.12</u>	<u>7.12</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>1230</u>	<u>1232</u>	<u>1232</u>	(umhos/cm)																				
Well Elevation <u>*603.80</u> (ft./msl)	Temp. <u>12.00</u>	<u>12.02</u>	<u>12.02</u>	(°C)																				
Water Level <u>67.78</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>536.02</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>*471.05</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
 Weather Conditions: 25°F, Cloudy, Calm winds
 Turbidity: 2.04 NTU
 Other: *Reference Measurement
 Depth To Water from L.S. = 67.78 - 2.97 = 64.81 (ft)
 Levels were taken on 12/21/22 @ 1030

(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: G48S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-18

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: 12/21/22 Start Purge: 1132 End Purge: 1155
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.19

MEASUREMENTS

Well Diameter <u>4.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.45</u> (ft)	pH <u>8.64</u>	<u>8.66</u>	<u>8.66</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>1344</u>	<u>1343</u>	<u>1343</u>	(umhos/cm)																				
Well Elevation <u>*620.77</u> (ft./msl)	Temp. <u>9.22</u>	<u>9.21</u>	<u>9.21</u>	(°C)																				
Water Level <u>105.61</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>515.16</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>*468.32</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 27°F, Cloudy, SE winds @ 0-5 mph
Turbidity: 3.73 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 105.61 - 2.45 = 103.16 (ft.)
Levels were taken on 12/21/22 @ 1125

(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 #: 500-220905-19

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: 12/21/22 Start Purge: 1326 End Purge: 1346
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.50 (ft) pH 9.50 9.50 9.50 (std.)
Ref. Measuring Pt. TIC SC 1403 1404 1404 (umhos/cm)
Well Elevation *612.23 (ft./msl) Temp. 9.71 9.63 9.63 (°C)
Water Level 96.57 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 515.66 (ft./msl)
Well Bottom Elevation *459.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, clear, slight odor
Weather Conditions: 30°F, cloudy, E winds @ 0-5 mph
Turbidity: 0.76 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 96.57 - 2.50 = 94.07 (ft)
Levels were taken on 12/21/22 @ 1320

(Updated: 07/14/2022)

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



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

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

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JOB DESCRIPTION

Joliet #9 (Quarry) CCR

JOB NUMBER

500-226905-2

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

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

Job ID: 500-226905-2

Job ID: 500-226905-2

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-226905-2**

Comments

No additional comments.

Receipt

The samples were received on 12/15/2022 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.0° C, 0.4° C, 1.4° C, 1.5° C, 3.0° C and 4.8° C.

RAD

Methods 903.0, RA-06-RC: Radium-226 batch 594431

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.

T09S (500-226905-1), T06S (500-226905-2), T05S (500-226905-3), G33S (500-226905-4), R32S (500-226905-5), G31S (500-226905-6), DUP (500-226905-7), (LCS 160-594431/2-A), (MB 160-594431/1-A) and (500-226905-E-1-A DU)

Method 903.0: Radium-226 prep batch 160-594824:

The following sample had Ba carrier recovery below the 30% QC limit: T01S (500-226905-13). The detection limit was achieved, so the laboratory does not believe this excursion adversely affects the data. Therefore, the data have been reported with this narrative.

Method 903.0: Radium-226 prep batch 160-594824:

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. G30S (500-226905-8), G20S (500-226905-9), R08S (500-226905-10), T02S (500-226905-11), T08S (500-226905-12), T01S (500-226905-13), G46S (500-226905-14), T03S (500-226905-15), G44S (500-226905-16), G45S (500-226905-17), G48S (500-226905-18), G47S (500-226905-19), (LCS 160-594824/2-A), (MB 160-594824/1-A) and (500-226905-C-8-A DU)

Method 904.0: Radium-228 batch 594438

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: G33S (500-226905-4). Analytical results are reported with the detection limit achieved.

Methods 904.0, RA-06-RC: Radium-228 batch 594438

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.

T09S (500-226905-1), T06S (500-226905-2), T05S (500-226905-3), G33S (500-226905-4), R32S (500-226905-5), G31S (500-226905-6), DUP (500-226905-7), (LCS 160-594438/2-A), (MB 160-594438/1-A) and (500-226905-E-1-B DU)

Method 904.0: Radium-228 batch 594830

The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: T02S (500-226905-11) and T01S (500-226905-13). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 594830

The Ba Carrier recovery is outside the lower control limit (40%) for the following sample: T01S (500-226905-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium-228 batch 594830

Case Narrative

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

Job ID: 500-226905-2

Job ID: 500-226905-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

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.

G30S (500-226905-8), G20S (500-226905-9), R08S (500-226905-10), T02S (500-226905-11), T08S (500-226905-12), T01S (500-226905-13), G46S (500-226905-14), T03S (500-226905-15), G44S (500-226905-16), G45S (500-226905-17), G48S (500-226905-18), G47S (500-226905-19), (LCS 160-594830/2-A), (MB 160-594830/1-A) and (500-226905-C-8-B DU)

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep_0: Radium 228 prep batch 160-594830

The barium carrier recovery is outside lower control limit (40%) for the following sample: T01S (500-226905-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method PrecSep-21:

Method PrecSep-21:

Method PrecSep-21: Radium 226 prep batch 160-59482

The barium carrier recovery is outside lower control limit (40%) for the following sample: T01S (500-226905-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

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

Job ID: 500-226905-2

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

Job ID: 500-226905-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-226905-1	T09S	Water	12/15/22 09:10	12/15/22 14:35
500-226905-2	T06S	Water	12/15/22 10:38	12/15/22 14:35
500-226905-3	T05S	Water	12/15/22 12:46	12/15/22 14:35
500-226905-4	G33S	Water	12/16/22 10:02	12/16/22 13:35
500-226905-5	R32S	Water	12/16/22 11:24	12/16/22 13:35
500-226905-6	G31S	Water	12/16/22 12:25	12/16/22 13:35
500-226905-7	DUP	Water	12/16/22 12:25	12/16/22 13:35
500-226905-8	G30S	GW	12/19/22 09:18	12/19/22 15:48
500-226905-9	G20S	GW	12/19/22 11:08	12/19/22 15:48
500-226905-10	R08S	GW	12/19/22 14:34	12/19/22 15:48
500-226905-11	T02S	Water	12/20/22 09:30	12/20/22 15:40
500-226905-12	T08S	Water	12/20/22 11:06	12/20/22 15:40
500-226905-13	T01S	Water	12/20/22 12:52	12/20/22 15:40
500-226905-14	G46S	Water	12/20/22 14:24	12/20/22 15:40
500-226905-15	T03S	Water	12/21/22 09:04	12/21/22 14:58
500-226905-16	G44S	Water	12/21/22 09:54	12/21/22 14:58
500-226905-17	G45S	Water	12/21/22 10:54	12/21/22 14:58
500-226905-18	G48S	Water	12/21/22 11:55	12/21/22 14:58
500-226905-19	G47S	Water	12/21/22 13:46	12/21/22 14:58



Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T09S

Lab Sample ID: 500-226905-1

Date Collected: 12/15/22 09:10

Matrix: Water

Date Received: 12/15/22 14:35

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	1.82		0.283	0.327	1.00	0.185	pCi/L	12/21/22 10:33	01/17/23 21:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 10:33	01/17/23 21:53	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	1.26		0.488	0.501	1.00	0.641	pCi/L	12/21/22 11:02	01/12/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 11:02	01/12/23 12:14	1
Y Carrier	83.0		40 - 110					12/21/22 11:02	01/12/23 12:14	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		0.564	0.598	5.00	0.641	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T06S

Lab Sample ID: 500-226905-2

Date Collected: 12/15/22 10:38

Matrix: Water

Date Received: 12/15/22 14:35

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	0.930		0.193	0.211	1.00	0.129	pCi/L	12/21/22 10:33	01/17/23 21:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 10:33	01/17/23 21:53	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	0.839		0.410	0.418	1.00	0.567	pCi/L	12/21/22 11:02	01/12/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 11:02	01/12/23 12:15	1
Y Carrier	85.6		40 - 110					12/21/22 11:02	01/12/23 12:15	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	1.77		0.453	0.468	5.00	0.567	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T05S

Lab Sample ID: 500-226905-3

Date Collected: 12/15/22 12:46

Matrix: Water

Date Received: 12/15/22 14:35

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	0.207		0.134	0.135	1.00	0.188	pCi/L	12/21/22 10:33	01/17/23 21:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					12/21/22 10:33	01/17/23 21:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.616	U	0.496	0.499	1.00	0.772	pCi/L	12/21/22 11:02	01/12/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					12/21/22 11:02	01/12/23 12:15	1
Y Carrier	81.1		40 - 110					12/21/22 11:02	01/12/23 12:15	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	0.823		0.514	0.517	5.00	0.772	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G33S

Lab Sample ID: 500-226905-4

Date Collected: 12/16/22 10:02

Matrix: Water

Date Received: 12/16/22 13:35

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	1.47		0.409	0.429	1.00	0.368	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.1		40 - 110					12/21/22 10:33	01/17/23 21:56	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	0.606	U G	0.939	0.940	1.00	1.60	pCi/L	12/21/22 11:02	01/12/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.1		40 - 110					12/21/22 11:02	01/12/23 12:15	1
Y Carrier	79.6		40 - 110					12/21/22 11:02	01/12/23 12:15	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	2.07		1.02	1.03	5.00	1.60	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: R32S

Lab Sample ID: 500-226905-5

Date Collected: 12/16/22 11:24

Matrix: Water

Date Received: 12/16/22 13:35

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	1.13		0.262	0.281	1.00	0.193	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					12/21/22 10:33	01/17/23 21:56	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	0.929		0.548	0.554	1.00	0.782	pCi/L	12/21/22 11:02	01/12/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					12/21/22 11:02	01/12/23 12:16	1
Y Carrier	85.2		40 - 110					12/21/22 11:02	01/12/23 12:16	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	2.06		0.607	0.621	5.00	0.782	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

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	2.18		0.288	0.348	1.00	0.147	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					12/21/22 10:33	01/17/23 21:56	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	1.91		0.515	0.544	1.00	0.518	pCi/L	12/21/22 11:02	01/12/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					12/21/22 11:02	01/12/23 12:16	1
Y Carrier	84.9		40 - 110					12/21/22 11:02	01/12/23 12:16	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	4.10		0.590	0.646	5.00	0.518	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

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	1.78		0.267	0.311	1.00	0.135	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/21/22 10:33	01/17/23 21:56	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	0.922		0.445	0.453	1.00	0.614	pCi/L	12/21/22 11:02	01/12/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/21/22 11:02	01/12/23 12:16	1
Y Carrier	87.5		40 - 110					12/21/22 11:02	01/12/23 12:16	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	2.70		0.519	0.549	5.00	0.614	pCi/L		01/19/23 12:15	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

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	0.898		0.241	0.254	1.00	0.216	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.2		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.937	U	0.635	0.640	1.00	0.955	pCi/L	12/27/22 12:44	01/13/23 11:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.2		40 - 110					12/27/22 12:44	01/13/23 11:34	1
Y Carrier	81.1		40 - 110					12/27/22 12:44	01/13/23 11:34	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	1.83		0.679	0.689	5.00	0.955	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G20S

Lab Sample ID: 500-226905-9

Date Collected: 12/19/22 11:08

Matrix: GW

Date Received: 12/19/22 15:48

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	1.47		0.233	0.268	1.00	0.136	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.61		0.491	0.513	1.00	0.586	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	82.6		40 - 110					12/27/22 12:44	01/13/23 11:36	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		0.543	0.579	5.00	0.586	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: R08S

Lab Sample ID: 500-226905-10

Date Collected: 12/19/22 14:34

Matrix: GW

Date Received: 12/19/22 15:48

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	0.733		0.165	0.178	1.00	0.112	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.17		0.480	0.492	1.00	0.659	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	83.4		40 - 110					12/27/22 12:44	01/13/23 11:36	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	1.90		0.508	0.523	5.00	0.659	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T02S

Lab Sample ID: 500-226905-11

Date Collected: 12/20/22 09:30

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.41		0.413	0.432	1.00	0.363	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.7		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.27	G	1.24	1.25	1.00	1.76	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.7		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	82.2		40 - 110					12/27/22 12:44	01/13/23 11:36	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	3.68		1.31	1.32	5.00	1.76	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T08S

Lab Sample ID: 500-226905-12

Date Collected: 12/20/22 11:06

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.296		0.128	0.131	1.00	0.149	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/27/22 11:35	01/19/23 09:56	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	0.249	U	0.343	0.344	1.00	0.577	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	81.1		40 - 110					12/27/22 12:44	01/13/23 11:36	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	0.546	U	0.366	0.368	5.00	0.577	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T01S

Lab Sample ID: 500-226905-13

Date Collected: 12/20/22 12:52

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.49		0.638	0.676	1.00	0.552	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	37.4	X	40 - 110					12/27/22 11:35	01/19/23 09:56	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	0.517	U G	1.48	1.48	1.00	2.62	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	37.4	X	40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	83.0		40 - 110					12/27/22 12:44	01/13/23 11:36	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	3.00		1.61	1.63	5.00	2.62	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G46S

Lab Sample ID: 500-226905-14

Date Collected: 12/20/22 14:24

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.95		0.284	0.334	1.00	0.161	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					12/27/22 11:35	01/19/23 09:56	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	2.82		0.605	0.659	1.00	0.582	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	88.2		40 - 110					12/27/22 12:44	01/13/23 11:36	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	4.78		0.668	0.739	5.00	0.582	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: T03S

Lab Sample ID: 500-226905-15

Date Collected: 12/21/22 09:04

Matrix: Water

Date Received: 12/21/22 14:58

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	0.706		0.181	0.192	1.00	0.165	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		40 - 110					12/27/22 11:35	01/19/23 09:56	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	0.452	U	0.393	0.395	1.00	0.618	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	80.4		40 - 110					12/27/22 12:44	01/13/23 11:39	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	1.16		0.433	0.439	5.00	0.618	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G44S

Lab Sample ID: 500-226905-16

Date Collected: 12/21/22 09:54

Matrix: Water

Date Received: 12/21/22 14:58

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	0.964		0.266	0.280	1.00	0.223	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	44.1		40 - 110					12/27/22 11:35	01/19/23 09:56	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	0.881	U	0.658	0.663	1.00	0.998	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	44.1		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	81.5		40 - 110					12/27/22 12:44	01/13/23 11:39	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	1.84		0.710	0.720	5.00	0.998	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

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	1.66		0.257	0.297	1.00	0.148	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					12/27/22 11:35	01/19/23 09:56	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	1.24		0.489	0.502	1.00	0.620	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	76.3		40 - 110					12/27/22 12:44	01/13/23 11:39	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	2.91		0.552	0.583	5.00	0.620	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

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	0.628		0.166	0.175	1.00	0.148	pCi/L	12/27/22 11:35	01/19/23 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					12/27/22 11:35	01/19/23 15:39	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	0.489	U	0.359	0.362	1.00	0.544	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	81.1		40 - 110					12/27/22 12:44	01/13/23 11:39	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		0.396	0.402	5.00	0.544	pCi/L		01/19/23 22:41	1

Client Sample Results

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

Job ID: 500-226905-2

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

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	0.469		0.149	0.155	1.00	0.149	pCi/L	12/27/22 11:35	01/19/23 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					12/27/22 11:35	01/19/23 15:39	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	0.395	U	0.400	0.402	1.00	0.644	pCi/L	12/27/22 12:44	01/13/23 11:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					12/27/22 12:44	01/13/23 11:40	1
Y Carrier	72.1		40 - 110					12/27/22 12:44	01/13/23 11:40	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	0.864		0.427	0.431	5.00	0.644	pCi/L		01/19/23 22:41	1

Definitions/Glossary

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

Job ID: 500-226905-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

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

Job ID: 500-226905-2

Rad

Prep Batch: 594431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	PrecSep-21	
500-226905-2	T06S	Total/NA	Water	PrecSep-21	
500-226905-3	T05S	Total/NA	Water	PrecSep-21	
500-226905-4	G33S	Total/NA	Water	PrecSep-21	
500-226905-5	R32S	Total/NA	Water	PrecSep-21	
500-226905-6	G31S	Total/NA	Water	PrecSep-21	
500-226905-7	DUP	Total/NA	Water	PrecSep-21	
MB 160-594431/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-594431/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-226905-1 DU	T09S	Total/NA	Water	PrecSep-21	

Prep Batch: 594438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	PrecSep_0	
500-226905-2	T06S	Total/NA	Water	PrecSep_0	
500-226905-3	T05S	Total/NA	Water	PrecSep_0	
500-226905-4	G33S	Total/NA	Water	PrecSep_0	
500-226905-5	R32S	Total/NA	Water	PrecSep_0	
500-226905-6	G31S	Total/NA	Water	PrecSep_0	
500-226905-7	DUP	Total/NA	Water	PrecSep_0	
MB 160-594438/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-594438/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-226905-1 DU	T09S	Total/NA	Water	PrecSep_0	

Prep Batch: 594824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-8	G30S	Total/NA	GW	PrecSep-21	
500-226905-9	G20S	Total/NA	GW	PrecSep-21	
500-226905-10	R08S	Total/NA	GW	PrecSep-21	
500-226905-11	T02S	Total/NA	Water	PrecSep-21	
500-226905-12	T08S	Total/NA	Water	PrecSep-21	
500-226905-13	T01S	Total/NA	Water	PrecSep-21	
500-226905-14	G46S	Total/NA	Water	PrecSep-21	
500-226905-15	T03S	Total/NA	Water	PrecSep-21	
500-226905-16	G44S	Total/NA	Water	PrecSep-21	
500-226905-17	G45S	Total/NA	Water	PrecSep-21	
500-226905-18	G48S	Total/NA	Water	PrecSep-21	
500-226905-19	G47S	Total/NA	Water	PrecSep-21	
MB 160-594824/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-594824/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-226905-8 DU	G30S	Total/NA	GW	PrecSep-21	

Prep Batch: 594830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-8	G30S	Total/NA	GW	PrecSep_0	
500-226905-9	G20S	Total/NA	GW	PrecSep_0	
500-226905-10	R08S	Total/NA	GW	PrecSep_0	
500-226905-11	T02S	Total/NA	Water	PrecSep_0	
500-226905-12	T08S	Total/NA	Water	PrecSep_0	
500-226905-13	T01S	Total/NA	Water	PrecSep_0	
500-226905-14	G46S	Total/NA	Water	PrecSep_0	

Eurofins Chicago

QC Association Summary

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

Job ID: 500-226905-2

Rad (Continued)

Prep Batch: 594830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-15	T03S	Total/NA	Water	PrecSep_0	
500-226905-16	G44S	Total/NA	Water	PrecSep_0	
500-226905-17	G45S	Total/NA	Water	PrecSep_0	
500-226905-18	G48S	Total/NA	Water	PrecSep_0	
500-226905-19	G47S	Total/NA	Water	PrecSep_0	
MB 160-594830/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-594830/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-226905-8 DU	G30S	Total/NA	GW	PrecSep_0	

QC Sample Results

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

Job ID: 500-226905-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-594431/1-A
Matrix: Water
Analysis Batch: 597152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594431

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05159	U	0.0741	0.0742	1.00	0.126	pCi/L	12/21/22 10:33	01/17/23 21:53	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/21/22 10:33	01/17/23 21:53	1
	93.9									

Lab Sample ID: LCS 160-594431/2-A
Matrix: Water
Analysis Batch: 597152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594431

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.70		1.15	1.00	0.142	pCi/L	94	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	86.6								

Lab Sample ID: 500-226905-1 DU
Matrix: Water
Analysis Batch: 597152

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 594431

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	1.82		1.966		0.339	1.00	0.157	pCi/L	0.22	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	87.4									

Lab Sample ID: MB 160-594824/1-A
Matrix: Water
Analysis Batch: 597550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594824

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01567	U	0.0640	0.0640	1.00	0.135	pCi/L	12/27/22 11:35	01/19/23 09:54	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/27/22 11:35	01/19/23 09:54	1
	94.4									

Lab Sample ID: LCS 160-594824/2-A
Matrix: Water
Analysis Batch: 597550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594824

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.08		1.17	1.00	0.140	pCi/L	98	75 - 125

Euromins Chicago

QC Sample Results

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

Job ID: 500-226905-2

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

Lab Sample ID: LCS 160-594824/2-A
Matrix: Water
Analysis Batch: 597550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594824

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.5		40 - 110

Lab Sample ID: 500-226905-8 DU
Matrix: GW
Analysis Batch: 597550

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 594824

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.898		0.8654		0.225	1.00	0.173	pCi/L	0.07	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	65.1		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-594438/1-A
Matrix: Water
Analysis Batch: 596764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594438

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

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110	12/21/22 11:02	01/12/23 12:14	1
Y Carrier	86.0		40 - 110	12/21/22 11:02	01/12/23 12:14	1

Lab Sample ID: LCS 160-594438/2-A
Matrix: Water
Analysis Batch: 596764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594438

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.28	8.083		1.17	1.00	0.498	pCi/L	98	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.6		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: 500-226905-1 DU
Matrix: Water
Analysis Batch: 596764

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 594438

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	1.26		1.554		0.515	1.00	0.590	pCi/L	0.29	1

Euromins Chicago

QC Sample Results

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

Job ID: 500-226905-2

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

Lab Sample ID: 500-226905-1 DU
Matrix: Water
Analysis Batch: 596764

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 594438

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.4		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: MB 160-594830/1-A
Matrix: Water
Analysis Batch: 596834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594830

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	-0.05559	U	0.253	0.253	1.00	0.299	pCi/L	12/27/22 12:44	01/13/23 11:34		1	

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110	12/27/22 12:44	01/13/23 11:34	1
Y Carrier	82.2		40 - 110	12/27/22 12:44	01/13/23 11:34	1

Lab Sample ID: LCS 160-594830/2-A
Matrix: Water
Analysis Batch: 596834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594830

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.28	8.574		1.20	1.00	0.297	pCi/L	104	75 - 125	

Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.5		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: 500-226905-8 DU
Matrix: GW
Analysis Batch: 596834

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 594830

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
	Result	Qual							RER	Limit
Radium-228	0.937	U	1.577		0.580	1.00	0.677	pCi/L	0.53	1

Carrier	%Yield	Qualifier	Limits
Ba Carrier	65.1		40 - 110
Y Carrier	82.6		40 - 110

Chain of Custody Record

522969




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager		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>TDS, FI, CI, SO4</i> <i>Metals 14 elements + Hg</i> <i>Radium 228</i> <i>Radium 226</i> <i>Combined 226/228</i>		 500-226905 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	
Project Name <i>Joliet #9 CCR</i>								Lab Sampling	
Site <i>4A22 CCR + Turbidity</i>								Job / SDG No <i>900-226905</i>	
P O #								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
1 2 3		<i>T09S</i>	<i>12/15/22 0910</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
		<i>T06S</i>	<i>12/15/22 1038</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
		<i>T05S</i>	<i>12/15/22 1246</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</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>21.4</i> Corr'd <i>1.4</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>BETA</i>		Date/Time <i>12/15/22 1435</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>BETA</i>	
								Date/Time <i>12/15/22 1438</i>	

Chain of Custody Record

522972




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact		Date		COC No	
Comp ny Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) <i>TDS, FI, CI, SO4 Radium 228 Radium 226 Combined 226/228 Metals 14 elements + Hg</i>		 500-226905 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	
Project Name <i>Joliet #9 CCR</i>								Lab Sampling	
Site <i>4022 6W + Turbidity</i>								Job / SDG No	
P O #								<i>500-226905</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>11 TO2S</i>		<i>12/20/22</i>	<i>0930</i>		<i>W</i>	<i>5</i>			
<i>12 TO8S</i>		<i>12/20/22</i>	<i>1106</i>		<i>W</i>	<i>5</i>			
<i>13 TO1S</i>		<i>12/20/22</i>	<i>1252</i>		<i>W</i>	<i>5</i>			
<i>14 G46S</i>		<i>12/20/22</i>	<i>1424</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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input type="checkbox"/> Non-Hazardous <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>5.8</i> Corr'd <i>4.8</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/20/22 1540</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received by <i>[Signature]</i>		Company <i>EETA</i>	
								Date/Time <i>12/20/22 1540</i>	

Chain of Custody Record

522973



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager			Site Contact		Date		COC No	
Company Name <i>Midwest Generation ENEC</i>		Email			Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>TDS, F, Cl, SO4</i> <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i>		500-226905 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	
Project Name <i>Joliet #9 CCR</i>									Lab Sampling	
Site <i>4022 GW + Turbidity</i>									Job / SDG No	
P O #									<i>500-226905</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
<i>15 TOSS</i>		<i>12/21/22</i>	<i>0904</i>		<i>W</i>	<i>5</i>				
<i>16 G44S</i>		<i>12/21/22</i>	<i>0954</i>		<i>W</i>	<i>5</i>				
<i>17 G45S</i>		<i>12/21/22</i>	<i>1054</i>		<i>W</i>	<i>5</i>				
<i>18 G48S</i>		<i>12/21/22</i>	<i>1155</i>		<i>W</i>	<i>5</i>				
<i>19 G47S</i>		<i>12/21/22</i>	<i>1346</i>		<i>W</i>	<i>5</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										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No		Cooler Temp (°C) Obs'd <i>0.2 20.0</i> Corr'd <i>0.6 20.4</i>		Therm ID No	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/21/22</i>	Received by <i>1458</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>12/21/22 1458</i>	

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mocker, Diana J		Lab PM: Mocker, Diana J		COC No: 500-168682.1	
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	
Shipping/Receiving		Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-226905-2	
Address: 13715 Rider Trail North,		Due Date Requested: 1/13/2023		TAT Requested (days):		Preservation Codes:	
City: Earth City		PO #:		WO #:		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:	
State, Zip: MO, 63045		Project #: 50011504		SSOW#:		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)	
Email: 314-298-8566(Tel) 314-298-8757(Fax)		Site: NRG Midwest Generation LSQ Joliet #9 CCR		Matrix (Water, Swab, On-wastecell, BT-tissue, A-AM)		Special Instructions/Note:	
Project Name: Joliet #9 (Quarry) CCR		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
T09S (500-226905-1)		12/15/22		09:10 Central		Water	
T06S (500-226905-2)		12/15/22		10:38 Central		Water	
T05S (500-226905-3)		12/15/22		12:46 Central		Water	
Perform MS/MSD (Yes or No)		903.0/PreSep_21 Standard Target List		X		X	
Field Filtered Sample (Yes or No)		904.0/PreSep_0 Standard Target List		X		X	
Ra26Ra228 GFPC		X		X		X	
Total Number of Containers		3		3		3	
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		3		3		3	
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		3		3		3	
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		3		3		3	

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:

Empy Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 12/10/22 1130

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Custody Seals Intact: _____ Custody Seal No.: _____

Δ Yes Δ No

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: 12/19/22 8:25AM

Received by: _____ Date/Time: _____

Method of Shipment: _____

Company: _____

Company: _____

Company: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-168691.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-226905-1
Address: 13715 Rider Trail North,		State of Origin: Illinois	
City: Earth City			
State Zip: MO, 63045			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)			
Email:			
Project #: Joliet #9 (Quarry) CCR			
Site: NRG Midwest Generation LSQ Joliet #9 CCR			

Due Date Requested: 1/8/2023	TAT Requested (days):	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	Ra22eRa228_GFPc
PO #:	WO #:	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weaver, Sealed, Onmetal, BT, Tissue, A+Air)	Preservation Code:
		12/16/22	10:02 Central		Water	Water
		12/16/22	11:24 Central		Water	Water
		12/16/22	12:25 Central		Water	Water
		12/16/22	12:25 Central		Water	Water

Sample Identification - Client ID (Lab ID)	Special Instructions/Note:
G33S (500-226905-4)	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R32S (500-226905-5)	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G31S (500-226905-6)	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G31S DUP (500-226905-7)	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

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/Time: 12/16/22 1400 Company
 Relinquished by: **FED EX** Date/Time: 12/16/22 8:25 Company
 Relinquished by: _____ Date/Time: _____ Company

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-168879.1		
Client Contact: Diana.Mockler@et.eurofins.com		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1		
Shipping/Receiving		State of Origin: Illinois		Job #: 500-226905-1		
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		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 Z - other (Specify)		
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 1/8/2023		Analysis Requested		
City: Earth City		TAT Requested (days):		Total Number of Containers		
State, Zip: MO, 63045		PO #:		3		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		3		
Email:		Project #: 50011504		3		
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:		3		
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, AA=air)	Preservation Code:	Special Instructions/Note:
T03S (500-226905-15)	12/21/22	09:04 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G44S (500-226905-16)	12/21/22	09:54 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G45S (500-226905-17)	12/21/22	10:54 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G48S (500-226905-18)	12/21/22	11:55 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G47S (500-226905-19)	12/21/22	13:46 Central		Water		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/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.</p>						
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: <i>[Signature]</i> Date/Time: 12/22/22 16:10 Company: FEDEX Relinquished by: _____ Date/Time: _____ Company: FEDEX Relinquished by: _____ Date/Time: _____ Company: FEDEX</p>						
<p>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:</p>						
<p>Cooler Temperature(s) °C and Other Remarks:</p>						



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-2

Login Number: 226905

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,3.0,1.5,4.8,0.0,0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-2

Login Number: 226905

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 12/19/22 05:25 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	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-2

Login Number: 226905

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 12/22/22 11:15 AM

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

Lab Chronicle

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

Job ID: 500-226905-2

Client Sample ID: T09S

Lab Sample ID: 500-226905-1

Date Collected: 12/15/22 09:10

Matrix: Water

Date Received: 12/15/22 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597152	FLC	EET SL	01/17/23 21:53
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:14
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: T06S

Lab Sample ID: 500-226905-2

Date Collected: 12/15/22 10:38

Matrix: Water

Date Received: 12/15/22 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597152	FLC	EET SL	01/17/23 21:53
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:15
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: T05S

Lab Sample ID: 500-226905-3

Date Collected: 12/15/22 12:46

Matrix: Water

Date Received: 12/15/22 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:55
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:15
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: G33S

Lab Sample ID: 500-226905-4

Date Collected: 12/16/22 10:02

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:15
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Lab Chronicle

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

Job ID: 500-226905-2

Client Sample ID: R32S

Lab Sample ID: 500-226905-5

Date Collected: 12/16/22 11:24

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:16
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:16
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:16
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:34
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Lab Chronicle

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

Job ID: 500-226905-2

Client Sample ID: G20S

Date Collected: 12/19/22 11:08

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-9

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: R08S

Date Collected: 12/19/22 14:34

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-10

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: T02S

Date Collected: 12/20/22 09:30

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: T08S

Date Collected: 12/20/22 11:06

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Lab Chronicle

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

Job ID: 500-226905-2

Client Sample ID: T01S

Lab Sample ID: 500-226905-13

Date Collected: 12/20/22 12:52

Matrix: Water

Date Received: 12/20/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G46S

Lab Sample ID: 500-226905-14

Date Collected: 12/20/22 14:24

Matrix: Water

Date Received: 12/20/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: T03S

Lab Sample ID: 500-226905-15

Date Collected: 12/21/22 09:04

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G44S

Lab Sample ID: 500-226905-16

Date Collected: 12/21/22 09:54

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Lab Chronicle

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

Job ID: 500-226905-2

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 15:39
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 15:39
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:40
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

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

Job ID: 500-226905-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-226905-8	G30S	52.2	
500-226905-8 DU	G30S	65.1	
500-226905-9	G20S	87.2	
500-226905-10	R08S	89.1	
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 (40-110)	
500-226905-1	T09S	88.0	
500-226905-1 DU	T09S	87.4	
500-226905-2	T06S	88.0	
500-226905-3	T05S	91.9	
500-226905-4	G33S	65.1	
500-226905-5	R32S	76.8	
500-226905-6	G31S	79.9	
500-226905-7	DUP	79.1	
500-226905-11	T02S	54.7	
500-226905-12	T08S	79.1	
500-226905-13	T01S	37.4 X	
500-226905-14	G46S	75.7	
500-226905-15	T03S	80.4	
500-226905-16	G44S	44.1	
500-226905-17	G45S	80.2	
500-226905-18	G48S	82.1	
500-226905-19	G47S	78.8	
LCS 160-594431/2-A	Lab Control Sample	86.6	
LCS 160-594824/2-A	Lab Control Sample	90.5	
MB 160-594431/1-A	Method Blank	93.9	
MB 160-594824/1-A	Method Blank	94.4	
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 (40-110)	Y (40-110)
500-226905-8	G30S	52.2	81.1
500-226905-8 DU	G30S	65.1	82.6
500-226905-9	G20S	87.2	82.6
500-226905-10	R08S	89.1	83.4
Tracer/Carrier Legend			
Ba = Ba Carrier			

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR
 Y = Y Carrier

Job ID: 500-226905-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-226905-1	T09S	88.0	83.0
500-226905-1 DU	T09S	87.4	84.1
500-226905-2	T06S	88.0	85.6
500-226905-3	T05S	91.9	81.1
500-226905-4	G33S	65.1	79.6
500-226905-5	R32S	76.8	85.2
500-226905-6	G31S	79.9	84.9
500-226905-7	DUP	79.1	87.5
500-226905-11	T02S	54.7	82.2
500-226905-12	T08S	79.1	81.1
500-226905-13	T01S	37.4 X	83.0
500-226905-14	G46S	75.7	88.2
500-226905-15	T03S	80.4	80.4
500-226905-16	G44S	44.1	81.5
500-226905-17	G45S	80.2	76.3
500-226905-18	G48S	82.1	81.1
500-226905-19	G47S	78.8	72.1
LCS 160-594438/2-A	Lab Control Sample	86.6	86.0
LCS 160-594830/2-A	Lab Control Sample	90.5	82.2
MB 160-594438/1-A	Method Blank	93.9	86.0
MB 160-594830/1-A	Method Blank	94.4	82.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

