

DATA SUMMARY POSTING

Station: Midwest Generation Waukegan Generating Station

Regulated Unit(s): East Pond (IEPA ID No. W0971900021-01)
 West Pond (IEPA ID No. W0971900021-02)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1st 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 on 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, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-09	3/3/2021	4.70
	3/30/2021	10.15
	5/6/2021	3.44
	5/27/2021	12.41
	6/18/2021	27.7
	7/8/2021	28.77
	8/19/2021	77.36
	9/29/2021	18.41
	11/4/2021	12.66
	2/10/2022	34.39
MW-11	3/2/2021	2.20
	3/30/2021	6.08
	5/6/2021	2.34
	5/27/2021	2.69
	6/18/2021	13.7
	7/8/2021	4.71
	8/19/2021	139.34
	9/29/2021	402.9
	11/4/2021	152.7
	2/10/2022	13.8
MW-14	3/2/2021	2035
	3/30/2021	151.5
	5/6/2021	901.4
	5/27/2021	2385.61
	6/18/2021	69.25
	7/8/2021	73.18
	8/19/2021	77.04
	9/29/2021	8.42
	11/4/2021	7.42
	2/10/2022	81.72
MW-01	3/1/2021	0.59
	3/30/2021	5.72
	5/5/2021	1.42
	5/27/2021	2.02
	6/18/2021	2.33
	7/8/2021	3.6
	8/18/2021	2.33
	9/29/2021	3.03
	11/3/2021	3.05
	2/8/2022	4.6
MW-02	3/1/2021	0.69
	3/30/2021	5.66
	5/5/2021	1.65
	5/27/2021	2.95
	6/18/2021	2.71
	7/8/2021	4.2
	8/18/2021	9.03
	9/29/2021	3.42
	11/3/2021	4.05
	2/8/2022	13.4
MW-03	3/1/2021	0.75
	3/30/2021	5.73
	5/5/2021	1.71
	5/27/2021	2.02
	6/18/2021	2.56
	7/8/2021	3.74
	8/18/2021	2.6
	9/29/2021	2.82
	11/3/2021	3.26
	2/8/2022	8.27
MW-04	3/1/2021	1.30
	3/30/2021	6.21
	5/5/2021	1.77
	5/27/2021	2.73
	6/18/2021	3.69
	7/8/2021	5.36
	8/18/2021	40.61
	9/29/2021	3.48
	11/3/2021	4.26
	2/8/2022	13.32
MW-16	3/1/2021	0.77
	3/30/2021	6.07
	5/6/2021	1.63
	5/27/2021	2.00
	6/18/2021	2.59
	7/8/2021	3.58
	8/18/2021	3.22
	9/29/2021	6.05
	11/4/2021	4.0
	2/8/2022	21.6

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212083-1
Client Project/Site: Waukegan CCR

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
3/3/2022 11:02:58 AM
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Job ID: 500-212083-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-212083-1**

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -1.3° C, 2.1° C and 2.2° C.

Metals

Method 3005A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for <CHOOSE_ONE> preparation/analysis: MW-01 (500-212083-1).

Method 7470A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: MW-01 (500-212083-1).

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

General Chemistry

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



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212083-1	MW-01	Water	02/08/22 10:30	02/09/22 16:05
500-212083-2	MW-02	Water	02/08/22 11:24	02/09/22 16:05
500-212083-3	MW-03	Water	02/08/22 12:24	02/09/22 16:05
500-212083-4	MW-04	Water	02/08/22 13:21	02/09/22 16:05
500-212083-5	MW-16	Water	02/08/22 14:05	02/09/22 16:05
500-212083-6	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-212083-7	MW-09	Water	02/10/22 10:21	02/11/22 10:05
500-212083-8	MW-11	Water	02/10/22 12:24	02/11/22 10:05
500-212083-9	MW-14	Water	02/10/22 11:23	02/11/22 10:05

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

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-01

Lab Sample ID: 500-212083-1

Date Collected: 02/08/22 10:30

Matrix: Water

Date Received: 02/09/22 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:10	1
Arsenic	0.023		0.0010		mg/L		02/18/22 10:52	02/18/22 20:10	1
Barium	0.037		0.0025		mg/L		02/18/22 10:52	02/18/22 20:10	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:10	1
Boron	3.1		0.50		mg/L		02/18/22 10:52	02/21/22 16:07	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Calcium	62		0.20		mg/L		02/18/22 10:52	02/18/22 20:10	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:10	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:10	1
Molybdenum	0.030		0.0050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:10	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010		mg/L		02/24/22 16:00	02/25/22 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			02/10/22 07:01	1
Chloride	42		2.0		mg/L			03/02/22 14:32	1
Fluoride	0.27		0.10		mg/L			02/15/22 17:33	1
Sulfate	230		25		mg/L			03/02/22 17:10	5

Client Sample ID: MW-02

Lab Sample ID: 500-212083-2

Date Collected: 02/08/22 11:24

Matrix: Water

Date Received: 02/09/22 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:28	1
Arsenic	0.021		0.0010		mg/L		02/18/22 10:52	02/18/22 20:28	1
Barium	0.025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:28	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:28	1
Boron	0.18		0.050		mg/L		02/18/22 10:52	02/21/22 16:12	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Calcium	71		0.20		mg/L		02/18/22 10:52	02/18/22 20:28	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:28	1
Lead	0.00069		0.00050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Lithium	0.0055		0.0020		mg/L		02/18/22 10:52	02/18/22 20:28	1
Molybdenum	0.028		0.0050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:28	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:11	1

Eurofins Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-02
Date Collected: 02/08/22 11:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			02/10/22 07:04	1
Chloride	34		2.0		mg/L			03/02/22 14:32	1
Fluoride	0.50		0.10		mg/L			02/15/22 17:51	1
Sulfate	200		25		mg/L			03/02/22 17:29	5

Client Sample ID: MW-03
Date Collected: 02/08/22 12:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:31	1
Arsenic	0.0053		0.0010		mg/L		02/18/22 10:52	02/18/22 20:31	1
Barium	0.028		0.0025		mg/L		02/18/22 10:52	02/18/22 20:31	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:31	1
Boron	2.6		0.50		mg/L		02/18/22 10:52	02/21/22 16:16	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Calcium	91		0.20		mg/L		02/18/22 10:52	02/18/22 20:31	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:31	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:31	1
Molybdenum	0.031		0.0050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Selenium	0.0062		0.0025		mg/L		02/18/22 10:52	02/18/22 20:31	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			02/10/22 07:06	1
Chloride	31		2.0		mg/L			03/02/22 14:32	1
Fluoride	0.30		0.10		mg/L			02/15/22 17:54	1
Sulfate	210		25		mg/L			03/02/22 17:11	5

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:34	1
Arsenic	0.024		0.0010		mg/L		02/18/22 10:52	02/18/22 20:34	1
Barium	0.057		0.0025		mg/L		02/18/22 10:52	02/18/22 20:34	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:34	1
Boron	3.1		0.50		mg/L		02/18/22 10:52	02/21/22 16:19	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:34	1
Calcium	110		0.20		mg/L		02/18/22 10:52	02/18/22 20:34	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:34	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0011		0.0010		mg/L		02/18/22 10:52	02/18/22 20:34	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:34	1
Lithium	0.0076		0.0020		mg/L		02/18/22 10:52	02/18/22 20:34	1
Molybdenum	0.014		0.0050		mg/L		02/18/22 10:52	02/18/22 20:34	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:34	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			02/10/22 07:09	1
Chloride	38		2.0		mg/L			03/02/22 14:33	1
Fluoride	0.66		0.10		mg/L			02/15/22 18:01	1
Sulfate	190		25		mg/L			03/02/22 17:11	5

Client Sample ID: MW-16
Date Collected: 02/08/22 14:05
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:45	1
Arsenic	0.0050		0.0010		mg/L		02/18/22 10:52	02/18/22 20:45	1
Barium	0.033		0.0025		mg/L		02/18/22 10:52	02/18/22 20:45	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:45	1
Boron	2.6		0.50		mg/L		02/18/22 10:52	02/21/22 16:23	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Calcium	110		0.20		mg/L		02/18/22 10:52	02/18/22 20:45	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Cobalt	0.0021		0.0010		mg/L		02/18/22 10:52	02/18/22 20:45	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Lithium	0.012		0.0020		mg/L		02/18/22 10:52	02/18/22 20:45	1
Molybdenum	0.027		0.0050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:45	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			02/10/22 07:11	1
Chloride	41		2.0		mg/L			03/02/22 14:33	1
Fluoride	0.65		0.10		mg/L			02/15/22 18:08	1
Sulfate	280		50		mg/L			03/02/22 17:29	10

Euromins Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: Duplicate

Lab Sample ID: 500-212083-6

Date Collected: 02/08/22 00:00

Matrix: Water

Date Received: 02/09/22 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:48	1
Arsenic	0.0057		0.0010		mg/L		02/18/22 10:52	02/18/22 20:48	1
Barium	0.029		0.0025		mg/L		02/18/22 10:52	02/18/22 20:48	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:48	1
Boron	2.6		0.50		mg/L		02/18/22 10:52	02/21/22 16:33	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Calcium	94		0.20		mg/L		02/18/22 10:52	02/18/22 20:48	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:48	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:48	1
Molybdenum	0.030		0.0050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Selenium	0.0066		0.0025		mg/L		02/18/22 10:52	02/18/22 20:48	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			02/10/22 07:14	1
Chloride	31		4.0		mg/L			03/02/22 14:33	2
Fluoride	0.29		0.10		mg/L			02/15/22 18:13	1
Sulfate	210		25		mg/L			03/02/22 17:12	5

Client Sample ID: MW-09

Lab Sample ID: 500-212083-7

Date Collected: 02/10/22 10:21

Matrix: Water

Date Received: 02/11/22 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 21:36	1
Arsenic	0.015		0.0010		mg/L		02/18/22 10:52	02/18/22 21:36	1
Barium	0.033		0.0025		mg/L		02/18/22 10:52	02/18/22 21:36	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:36	1
Boron	9.5		1.0		mg/L		02/18/22 10:52	02/21/22 17:19	20
Cadmium	0.00076		0.00050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Calcium	190		0.20		mg/L		02/18/22 10:52	02/18/22 21:36	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Cobalt	0.0038		0.0010		mg/L		02/18/22 10:52	02/18/22 21:36	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Lithium	0.065		0.0020		mg/L		02/18/22 10:52	02/18/22 21:36	1
Molybdenum	0.21		0.0050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Selenium	0.036		0.0025		mg/L		02/18/22 10:52	02/18/22 21:36	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:36	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-09
Date Collected: 02/10/22 10:21
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			02/14/22 04:33	1
Chloride	220		10		mg/L			03/02/22 14:33	5
Fluoride	0.17		0.10		mg/L			02/15/22 18:18	1
Sulfate	270		50		mg/L			03/02/22 17:29	10

Client Sample ID: MW-11
Date Collected: 02/10/22 12:24
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 21:40	1
Arsenic	0.68		0.0010		mg/L		02/18/22 10:52	02/18/22 21:40	1
Barium	0.051		0.0025		mg/L		02/18/22 10:52	02/18/22 21:40	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:40	1
Boron	1.2		0.25		mg/L		02/18/22 10:52	02/21/22 17:22	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Calcium	150		0.20		mg/L		02/18/22 10:52	02/18/22 21:40	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:40	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Lithium	0.032		0.0020		mg/L		02/18/22 10:52	02/18/22 21:40	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 21:40	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 21:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	860		10		mg/L			02/14/22 04:35	1
Chloride	87		4.0		mg/L			03/02/22 14:34	2
Fluoride	0.17		0.10		mg/L			02/15/22 18:22	1
Sulfate	44		5.0		mg/L			03/02/22 17:11	1

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 21:43	1
Arsenic	0.89		0.0010		mg/L		02/18/22 10:52	02/18/22 21:43	1
Barium	0.054		0.0025		mg/L		02/18/22 10:52	02/18/22 21:43	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:43	1
Boron	0.50		0.050		mg/L		02/18/22 10:52	02/21/22 17:26	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:43	1
Calcium	150		0.20		mg/L		02/18/22 10:52	02/18/22 21:43	1
Chromium	0.19		0.0050		mg/L		02/18/22 10:52	02/18/22 21:43	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:43	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:43	1
Lithium	0.014		0.0020		mg/L		02/18/22 10:52	02/18/22 21:43	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:43	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 21:43	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 21:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	760		10		mg/L			02/14/22 04:38	1
Chloride	30		2.0		mg/L			03/02/22 14:34	1
Fluoride	0.16		0.10		mg/L			02/15/22 18:26	1
Sulfate	58		10		mg/L			03/02/22 17:13	2

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Metals

Prep Batch: 643202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total Recoverable	Water	3005A	
500-212083-2	MW-02	Total Recoverable	Water	3005A	
500-212083-3	MW-03	Total Recoverable	Water	3005A	
500-212083-4	MW-04	Total Recoverable	Water	3005A	
500-212083-5	MW-16	Total Recoverable	Water	3005A	
500-212083-6	Duplicate	Total Recoverable	Water	3005A	
500-212083-7	MW-09	Total Recoverable	Water	3005A	
500-212083-8	MW-11	Total Recoverable	Water	3005A	
500-212083-9	MW-14	Total Recoverable	Water	3005A	
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 643537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total Recoverable	Water	6020A	643202
500-212083-2	MW-02	Total Recoverable	Water	6020A	643202
500-212083-3	MW-03	Total Recoverable	Water	6020A	643202
500-212083-4	MW-04	Total Recoverable	Water	6020A	643202
500-212083-5	MW-16	Total Recoverable	Water	6020A	643202
500-212083-6	Duplicate	Total Recoverable	Water	6020A	643202
500-212083-7	MW-09	Total Recoverable	Water	6020A	643202
500-212083-8	MW-11	Total Recoverable	Water	6020A	643202
500-212083-9	MW-14	Total Recoverable	Water	6020A	643202
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	6020A	643202
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643202

Analysis Batch: 643796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total Recoverable	Water	6020A	643202
500-212083-2	MW-02	Total Recoverable	Water	6020A	643202
500-212083-3	MW-03	Total Recoverable	Water	6020A	643202
500-212083-4	MW-04	Total Recoverable	Water	6020A	643202
500-212083-5	MW-16	Total Recoverable	Water	6020A	643202
500-212083-6	Duplicate	Total Recoverable	Water	6020A	643202
500-212083-7	MW-09	Total Recoverable	Water	6020A	643202
500-212083-8	MW-11	Total Recoverable	Water	6020A	643202
500-212083-9	MW-14	Total Recoverable	Water	6020A	643202
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	6020A	643202
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643202

Prep Batch: 644353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	7470A	
500-212083-2	MW-02	Total/NA	Water	7470A	
500-212083-3	MW-03	Total/NA	Water	7470A	
500-212083-4	MW-04	Total/NA	Water	7470A	
500-212083-5	MW-16	Total/NA	Water	7470A	
500-212083-6	Duplicate	Total/NA	Water	7470A	
500-212083-7	MW-09	Total/NA	Water	7470A	
500-212083-8	MW-11	Total/NA	Water	7470A	
500-212083-9	MW-14	Total/NA	Water	7470A	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Metals (Continued)

Prep Batch: 644353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644353/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-644353/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-212083-2 MS	MW-02	Total/NA	Water	7470A	
500-212083-2 MSD	MW-02	Total/NA	Water	7470A	
500-212083-2 DU	MW-02	Total/NA	Water	7470A	

Analysis Batch: 644609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	7470A	644353
500-212083-2	MW-02	Total/NA	Water	7470A	644353
500-212083-3	MW-03	Total/NA	Water	7470A	644353
500-212083-4	MW-04	Total/NA	Water	7470A	644353
500-212083-5	MW-16	Total/NA	Water	7470A	644353
500-212083-6	Duplicate	Total/NA	Water	7470A	644353
500-212083-7	MW-09	Total/NA	Water	7470A	644353
500-212083-8	MW-11	Total/NA	Water	7470A	644353
500-212083-9	MW-14	Total/NA	Water	7470A	644353
MB 500-644353/12-A	Method Blank	Total/NA	Water	7470A	644353
LCS 500-644353/13-A	Lab Control Sample	Total/NA	Water	7470A	644353
500-212083-2 MS	MW-02	Total/NA	Water	7470A	644353
500-212083-2 MSD	MW-02	Total/NA	Water	7470A	644353
500-212083-2 DU	MW-02	Total/NA	Water	7470A	644353

General Chemistry

Analysis Batch: 641701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 2540C	
500-212083-2	MW-02	Total/NA	Water	SM 2540C	
500-212083-3	MW-03	Total/NA	Water	SM 2540C	
500-212083-4	MW-04	Total/NA	Water	SM 2540C	
500-212083-5	MW-16	Total/NA	Water	SM 2540C	
500-212083-6	Duplicate	Total/NA	Water	SM 2540C	
MB 500-641701/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641701/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 642215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-7	MW-09	Total/NA	Water	SM 2540C	
500-212083-8	MW-11	Total/NA	Water	SM 2540C	
500-212083-9	MW-14	Total/NA	Water	SM 2540C	
MB 500-642215/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-642215/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 642706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 4500 F C	
500-212083-2	MW-02	Total/NA	Water	SM 4500 F C	
500-212083-3	MW-03	Total/NA	Water	SM 4500 F C	
500-212083-4	MW-04	Total/NA	Water	SM 4500 F C	
500-212083-5	MW-16	Total/NA	Water	SM 4500 F C	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

General Chemistry (Continued)

Analysis Batch: 642706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-6	Duplicate	Total/NA	Water	SM 4500 F C	
500-212083-7	MW-09	Total/NA	Water	SM 4500 F C	
500-212083-8	MW-11	Total/NA	Water	SM 4500 F C	
500-212083-9	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-642706/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-642706/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 645327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-212083-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-212083-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-212083-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-212083-5	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-212083-6	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-212083-7	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-212083-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-212083-9	MW-14	Total/NA	Water	SM 4500 Cl- E	
MB 500-645327/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-645327/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-212083-9 MS	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-212083-9 MSD	MW-14	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 645387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-212083-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-212083-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-212083-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-212083-5	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-212083-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-212083-7	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-212083-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-212083-9	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-645387/32	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-645387/34	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-212083-9 MS	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-212083-9 MSD	MW-14	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-643202/1-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:03	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Barium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:03	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Calcium	<0.20		0.20		mg/L		02/18/22 10:52	02/18/22 20:03	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:03	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:03	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:03	1

Lab Sample ID: MB 500-643202/1-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		02/18/22 10:52	02/21/22 16:00	1

Lab Sample ID: LCS 500-643202/2-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0877		mg/L		88	80 - 120
Barium	2.00	1.95		mg/L		98	80 - 120
Beryllium	0.0500	0.0472		mg/L		94	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Calcium	10.0	9.77		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.500	0.496		mg/L		99	80 - 120
Molybdenum	1.00	0.930		mg/L		93	80 - 120
Selenium	0.100	0.0942		mg/L		94	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-643202/2-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643202

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

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-644353/12-A
Matrix: Water
Analysis Batch: 644609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:06	1

Lab Sample ID: LCS 500-644353/13-A
Matrix: Water
Analysis Batch: 644609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00179		mg/L		90	80 - 120

Lab Sample ID: 500-212083-2 MS
Matrix: Water
Analysis Batch: 644609

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 644353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000994		mg/L		99	75 - 125

Lab Sample ID: 500-212083-2 MSD
Matrix: Water
Analysis Batch: 644609

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 644353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000963		mg/L		96	75 - 125	3	20

Lab Sample ID: 500-212083-2 DU
Matrix: Water
Analysis Batch: 644609

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 644353

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

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

Lab Sample ID: MB 500-641701/1
Matrix: Water
Analysis Batch: 641701

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			02/10/22 06:28	1

Lab Sample ID: LCS 500-641701/2
Matrix: Water
Analysis Batch: 641701

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	270		mg/L		108	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

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

Lab Sample ID: MB 500-642215/1
Matrix: Water
Analysis Batch: 642215

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			02/14/22 03:39	1

Lab Sample ID: LCS 500-642215/2
Matrix: Water
Analysis Batch: 642215

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	266		mg/L		106	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-645327/16
Matrix: Water
Analysis Batch: 645327

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/02/22 14:32	1

Lab Sample ID: LCS 500-645327/17
Matrix: Water
Analysis Batch: 645327

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	19.9		mg/L		100	85 - 115

Lab Sample ID: 500-212083-9 MS
Matrix: Water
Analysis Batch: 645327

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30		20.0	48.5		mg/L		90	75 - 125

Lab Sample ID: 500-212083-9 MSD
Matrix: Water
Analysis Batch: 645327

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	30		20.0	48.7		mg/L		91	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-642706/3
Matrix: Water
Analysis Batch: 642706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/15/22 16:44	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-642706/4
Matrix: Water
Analysis Batch: 642706

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.5		mg/L		105	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-645387/32
Matrix: Water
Analysis Batch: 645387

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/02/22 17:09	1

Lab Sample ID: LCS 500-645387/34
Matrix: Water
Analysis Batch: 645387

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	21.2		mg/L		106	88 - 123

Lab Sample ID: 500-212083-9 MS
Matrix: Water
Analysis Batch: 645387

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	58		20.0	77.1		mg/L		95	75 - 125

Lab Sample ID: 500-212083-9 MSD
Matrix: Water
Analysis Batch: 645387

Client Sample ID: MW-14
Prep Type: Total/NA

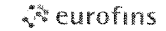
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	58		20.0	76.6		mg/L		93	75 - 125	1	20


Eurofins Chicago

241st Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534-5211

Chain of Custody Record

MKE 232



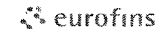
Client Information		Sampler <i>Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No.	COC No 500 98609-43273 1					
Client Contact Mitchel Dolan		Phone <i>262-781-0475</i>	E-mail Diana.Mockler@Eurofinset.com	State of Origin <i>IL</i>	Page Page 1 of 1					
Company KPRG and Associates Inc.		Analysis Requested			Job # <i>500-212083</i>					
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	 500-212083 COC		Preservation Codes A H L M Hexane B NaOH N None C Zn Acetate J Asha D Nitric Acid P Na2O4S E N HSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T SP Dodecalhyd ate ce U Acetone J DI Water MCAA K EDTA W pH 4-5 L EDA Z other -pe if Other:					
City Brookfield		TAT Requested (days)								
State Zip WI 53005		Compliance Project Yes No								
Phone 262 781-0475(Tel)		PC # 4502012555								
Email mitche d@kprg nc.com		WP #	Total Number of Containers							
Project Name Waukegan CCR Event Desc. Quarterly Waukegan CCR		Project # 50011597								
Site Illinois		SSOW#								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil)	Field Filtered Sample (Yes or No)	Performs MS/MS (Yes or No)	Special Instructions/Note		
<i>1</i>	MW-01	<i>2/8/22</i>	<i>1030</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>2</i>	MW-02	<i>2/8/22</i>	<i>1124</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>3</i>	MW-03	<i>2/8/22</i>	<i>1224</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>4</i>	MW-04	<i>2/8/22</i>	<i>1321</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>
MW-05					Water					
MW-06					Water					
MW-07					Water					
<i>5</i>	MW-16	<i>2/8/22</i>	<i>1405</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>6</i>	Duplicate	<i>2/8/22</i>	<i>-</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements								
Empty Kit Reinquished by		Date	Time	Method of Shipment						
Reinquished by <i>MS</i>		Date/Time <i>2/8/22 / 1600</i>	Company FEDEX <i>KPRG</i>	Received by <i>FEDEX</i>	Date/Time <i>2/8/22 / 1600</i>	Company <i>FEDEX</i>				
Reinquished by		Date/Time	Company <i>KPRG</i>	Received by <i>Stephanie Hernandez</i>	Date/Time <i>2/9/22 1605</i>	Company <i>EETA</i>				
Reinquished by		Date/Time	Company	Received by	Date/Time	Company				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>-0.8 → -1.3, 21</i>						


Eurofins Chicago

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

Chain of Custody Record

MKE 232



Client Information			Sampler <i>Mitchel Dolan</i>		Lab PM Mockler D ana J		Carrier Tracking No(s)		COC No. 500-98609-43273 1			
Client Contact Mitchel Dolan			Phone <i>262-622-1143</i>		E-Mail Diana.Mockler@Eurofinset.com		State of Origin <i>IL</i>		Page Page 1 of 1			
Company KPRG and Associates Inc 14665 West Lisbon Road Suite 1A City Brookfield State Zip WI 53005 Phone 262 781-0475(Tel) Email mitcheld@kprginc.com			Due Date Requested		Analysis Requested  500-212083 COC						Job # <i>500-212083</i>	
Address			TAT Requested (days)								Preservation Codes	
Project Name Waukegan CCR Event Des Quarterly Waukegan CCR			Project # 50011597		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers		Special Instructions/Note	
Site Ill ois			SSOW#		903.0, 904.0		6010C 6020A 7470A		2540C, 4500, F, C, SM4500, Cl, E, SM4500, SO4, E			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B Tissue A=Air)	Preservation Code	D	D	N	N		
<i>MW-09</i>		<i>2/10/22</i>	<i>1021</i>	<i>G</i>	Water	N	N	X	X	X		
<i>MW-11</i>		<i>2/10/22</i>	<i>1224</i>	<i>G</i>	Water	N	N	X	X	X		
<i>MW-14</i>		<i>2/10/22</i>	<i>1123</i>	<i>G</i>	Water	N	N	X	X	X		
XXXXXX					Water							
XXXXXX					Water							
XXXXXX					Water							
XXXXXX					Water							
XXXXXX					Water							
XXXXXX					Water							
XXXXXX					Water							
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements						
Empty Kit Relinquished by <i>[Signature]</i>			Date <i>2/10/22 / 1400</i>		Company <i>KPRG</i>		Received by <i>FEDEX</i>		Date/Time <i>2/10/22 / 1400</i>		Company <i>FEDEX</i>	
Relinquished by			Date, time		Company		Received by <i>Stephanie Hernandez</i>		Date/Time <i>2/11/22 1005</i>		Company <i>EETA</i>	
Kit Relinquished by			Date, time		Company		Received by		Date, time		Company	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No		Cooler Temperature(s) and Other Remarks <i>2 2</i>							



ORIGIN ID:FEPA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 10FEB22
ACTWGT: 53 15 LB
CAD: 6994083/S9FE2220
DIMS: 26x14x13 IN

BILL THIRD PARTY



500-212083 Wayb

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

Handwritten initials

UNIVERSITY PARK IL 60484

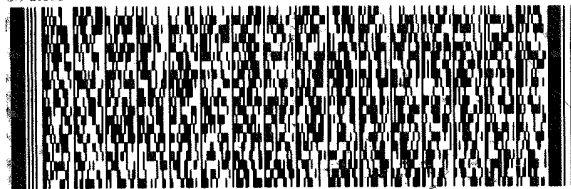
(773) 474-0368

REF:

INU:

DEPT:

PO:



FedEx
Express



1 of 3

TRK# 2897 0385 6530
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MASTER

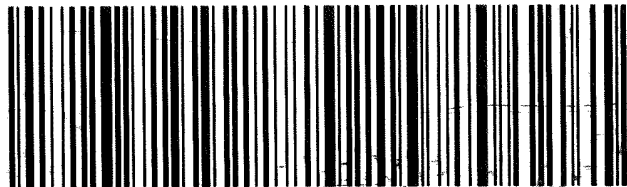
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FRI - 11 FEB 4:30P
STANDARD OVERNIGHT

AHS

60484

IL-US ORD



Part # 150297-483 J510027 055

22

AN 096102201227

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- 11
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- 13

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212083-1

Login Number: 212083

List Number: 1

Creator: Hernandez, Stephanie

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	-1.3,2.1,2.2 Samples not frozen
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: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-01
Date Collected: 02/08/22 10:30
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:07	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 13:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:32	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:10	PFK	TAL CHI

Client Sample ID: MW-02
Date Collected: 02/08/22 11:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 16:12	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:11	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:32	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:51	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:29	PFK	TAL CHI

Client Sample ID: MW-03
Date Collected: 02/08/22 12:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:16	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:32	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:54	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:11	PFK	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:19	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:11	PFK	TAL CHI

Client Sample ID: MW-16
Date Collected: 02/08/22 14:05
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:23	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	645387	03/02/22 17:29	PFK	TAL CHI

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:33	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:13	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:12	PFK	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-09
Date Collected: 02/10/22 10:21
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 21:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		20	643796	02/21/22 17:19	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 04:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	645387	03/02/22 17:29	PFK	TAL CHI

Client Sample ID: MW-11
Date Collected: 02/10/22 12:24
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 21:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 17:22	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 04:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	645327	03/02/22 14:34	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:22	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	645387	03/02/22 17:11	PFK	TAL CHI

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 21:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 17:26	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:41	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 04:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:34	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:13	PFK	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-212083-2
Client Project/Site: Waukegan CCR

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
3/17/2022 8:34:48 AM

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

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

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



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Job ID: 500-212083-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212083-2

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -1.3° C, 2.1° C and 2.2° C.

RAD

Method 903.0: Radium 226 Batch 160-551587:

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

MW-01 (500-212083-1), MW-02 (500-212083-2), MW-03 (500-212083-3), MW-04 (500-212083-4), MW-16 (500-212083-5), Duplicate (500-212083-6), (LCS 160-551587/1-A), (MB 160-551587/21-A) and (500-212083-D-1-A DU)

Methods 903.0, 9315: Radium 226 batch 551849:

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

MW-09 (500-212083-7), MW-11 (500-212083-8), MW-14 (500-212083-9), (LCS 160-551849/1-A), (MB 160-551849/23-A), (500-212081-F-15-A) and (500-212081-H-15-A DU)

Method 904.0: Radium 228 batch 551588

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

MW-01 (500-212083-1), MW-02 (500-212083-2), MW-03 (500-212083-3), MW-04 (500-212083-4), MW-16 (500-212083-5), Duplicate (500-212083-6), (LCS 160-551588/1-A), (MB 160-551588/21-A) and (500-212083-D-1-B DU)

Method 904.0: Radium 228 batch 551588

The LCS recovered at (129%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138%) per method requirements. The LCS passes, no further action is required.

(LCS 160-551588/1-A)

Methods 904.0, 9320: Radium 228 batch 551852

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

MW-09 (500-212083-7), MW-11 (500-212083-8), MW-14 (500-212083-9), (LCS 160-551852/1-A), (MB 160-551852/23-A), (500-212081-F-15-B) and (500-212081-H-15-B DU)

Method PrecSep_0:

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Job ID: 500-212083-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep_0:

Method PrecSep-21:

Method PrecSep-21:

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

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Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212083-1	MW-01	Water	02/08/22 10:30	02/09/22 16:05
500-212083-2	MW-02	Water	02/08/22 11:24	02/09/22 16:05
500-212083-3	MW-03	Water	02/08/22 12:24	02/09/22 16:05
500-212083-4	MW-04	Water	02/08/22 13:21	02/09/22 16:05
500-212083-5	MW-16	Water	02/08/22 14:05	02/09/22 16:05
500-212083-6	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-212083-7	MW-09	Water	02/10/22 10:21	02/11/22 10:05
500-212083-8	MW-11	Water	02/10/22 12:24	02/11/22 10:05
500-212083-9	MW-14	Water	02/10/22 11:23	02/11/22 10:05

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-01

Lab Sample ID: 500-212083-1

Date Collected: 02/08/22 10:30

Matrix: Water

Date Received: 02/09/22 16:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118		0.0811	0.0818	1.00	0.113	pCi/L	02/21/22 09:25	03/15/22 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					02/21/22 09:25	03/15/22 13:50	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.408	U	0.231	0.231	1.00	0.408	pCi/L	02/21/22 09:59	03/04/22 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					02/21/22 09:59	03/04/22 12:43	1
Y Carrier	83.0		40 - 110					02/21/22 09:59	03/04/22 12:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.408	U	0.245	0.245	5.00	0.408	pCi/L		03/16/22 17:51	1

Client Sample ID: MW-02

Lab Sample ID: 500-212083-2

Date Collected: 02/08/22 11:24

Matrix: Water

Date Received: 02/09/22 16:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.191	U	0.126	0.127	1.00	0.191	pCi/L	02/21/22 09:25	03/15/22 13:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					02/21/22 09:25	03/15/22 13:50	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.593	U	0.376	0.378	1.00	0.593	pCi/L	02/21/22 09:59	03/04/22 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					02/21/22 09:59	03/04/22 12:43	1
Y Carrier	82.6		40 - 110					02/21/22 09:59	03/04/22 12:43	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-02
Date Collected: 02/08/22 11:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-2
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.640		0.397	0.399	5.00	0.593	pCi/L		03/16/22 17:51	1

Client Sample ID: MW-03
Date Collected: 02/08/22 12:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.154		0.0905	0.0916	1.00	0.121	pCi/L	02/21/22 09:25	03/15/22 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					02/21/22 09:25	03/15/22 13:51	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.638		0.306	0.311	1.00	0.445	pCi/L	02/21/22 09:59	03/04/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					02/21/22 09:59	03/04/22 12:44	1
Y Carrier	82.2		40 - 110					02/21/22 09:59	03/04/22 12:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.792		0.319	0.324	5.00	0.445	pCi/L		03/16/22 17:51	1

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.107	0.108	1.00	0.134	pCi/L	02/21/22 09:25	03/15/22 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					02/21/22 09:25	03/15/22 13:51	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.341	0.353	1.00	0.441	pCi/L	02/21/22 09:59	03/04/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					02/21/22 09:59	03/04/22 12:44	1
Y Carrier	81.1		40 - 110					02/21/22 09:59	03/04/22 12:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.21		0.357	0.369	5.00	0.441	pCi/L		03/16/22 17:51	1

Client Sample ID: MW-16
Date Collected: 02/08/22 14:05
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.145	U	0.0920	0.0923	1.00	0.145	pCi/L	02/21/22 09:25	03/15/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/21/22 09:25	03/15/22 13:52	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.682	U	0.423	0.425	1.00	0.682	pCi/L	02/21/22 09:59	03/04/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/21/22 09:59	03/04/22 12:44	1
Y Carrier	82.6		40 - 110					02/21/22 09:59	03/04/22 12:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.682	U	0.433	0.435	5.00	0.682	pCi/L		03/16/22 17:51	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-6
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.0947	U	0.0642	0.0645	1.00	0.0947	pCi/L	02/21/22 09:25	03/15/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					02/21/22 09:25	03/15/22 13:52	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.568		0.313	0.317	1.00	0.468	pCi/L	02/21/22 09:59	03/04/22 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					02/21/22 09:59	03/04/22 12:44	1
Y Carrier	83.4		40 - 110					02/21/22 09:59	03/04/22 12:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.639		0.320	0.323	5.00	0.468	pCi/L		03/16/22 17:51	1

Client Sample ID: MW-09
Date Collected: 02/10/22 10:21
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.232		0.138	0.139	1.00	0.178	pCi/L	02/22/22 15:12	03/16/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					02/22/22 15:12	03/16/22 11:52	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.523	U	0.319	0.320	1.00	0.523	pCi/L	02/22/22 15:42	03/07/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					02/22/22 15:42	03/07/22 13:20	1
Y Carrier	85.2		40 - 110					02/22/22 15:42	03/07/22 13:20	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-09

Date Collected: 02/10/22 10:21

Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.523	U	0.348	0.349	5.00	0.523	pCi/L		03/16/22 17:45	1

Client Sample ID: MW-11

Date Collected: 02/10/22 12:24

Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-8

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.250		0.126	0.128	1.00	0.153	pCi/L	02/22/22 15:12	03/16/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					02/22/22 15:12	03/16/22 11:52	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.589		0.340	0.344	1.00	0.512	pCi/L	02/22/22 15:42	03/07/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					02/22/22 15:42	03/07/22 13:20	1
Y Carrier	91.6		40 - 110					02/22/22 15:42	03/07/22 13:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.839		0.363	0.367	5.00	0.512	pCi/L		03/16/22 17:45	1

Client Sample ID: MW-14

Date Collected: 02/10/22 11:23

Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.154	U	0.101	0.101	1.00	0.154	pCi/L	02/22/22 15:12	03/16/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					02/22/22 15:12	03/16/22 11:52	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
Matrix: Water

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.549		0.352	0.356	1.00	0.537	pCi/L	02/22/22 15:42	03/07/22 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					02/22/22 15:42	03/07/22 13:20	1
Y Carrier	84.1		40 - 110					02/22/22 15:42	03/07/22 13:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.658		0.366	0.370	5.00	0.537	pCi/L		03/16/22 17:45	1



Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Rad

Prep Batch: 551587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	PrecSep-21	
500-212083-2	MW-02	Total/NA	Water	PrecSep-21	
500-212083-3	MW-03	Total/NA	Water	PrecSep-21	
500-212083-4	MW-04	Total/NA	Water	PrecSep-21	
500-212083-5	MW-16	Total/NA	Water	PrecSep-21	
500-212083-6	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-551587/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-551587/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-212083-1 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 551588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	PrecSep_0	
500-212083-2	MW-02	Total/NA	Water	PrecSep_0	
500-212083-3	MW-03	Total/NA	Water	PrecSep_0	
500-212083-4	MW-04	Total/NA	Water	PrecSep_0	
500-212083-5	MW-16	Total/NA	Water	PrecSep_0	
500-212083-6	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-551588/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-551588/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-212083-1 DU	MW-01	Total/NA	Water	PrecSep_0	

Prep Batch: 551849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-7	MW-09	Total/NA	Water	PrecSep-21	
500-212083-8	MW-11	Total/NA	Water	PrecSep-21	
500-212083-9	MW-14	Total/NA	Water	PrecSep-21	
MB 160-551849/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-551849/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 551852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-7	MW-09	Total/NA	Water	PrecSep_0	
500-212083-8	MW-11	Total/NA	Water	PrecSep_0	
500-212083-9	MW-14	Total/NA	Water	PrecSep_0	
MB 160-551852/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-551852/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-551587/21-A
Matrix: Water
Analysis Batch: 555442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551587

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.110	U	0.0547	0.0547	1.00	0.110	pCi/L	02/21/22 09:25	03/15/22 13:48	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					02/21/22 09:25	03/15/22 13:48	1
	90.0									

Lab Sample ID: LCS 160-551587/1-A
Matrix: Water
Analysis Batch: 555442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551587

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.04		1.16	1.00	0.151	pCi/L	97	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	87.5								

Lab Sample ID: 500-212083-1 DU
Matrix: Water
Analysis Batch: 555441

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 551587

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.118		<0.112	U	0.0649	1.00	0.112	pCi/L	0.53	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	91.0									

Lab Sample ID: MB 160-551849/23-A
Matrix: Water
Analysis Batch: 555612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551849

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.149	U	0.0636	0.0638	1.00	0.149	pCi/L	02/22/22 15:12	03/16/22 11:48	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					02/22/22 15:12	03/16/22 11:48	1
	95.8									

Lab Sample ID: LCS 160-551849/1-A
Matrix: Water
Analysis Batch: 555611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551849

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.25		1.15	1.00	0.117	pCi/L	99	75 - 125

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

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

Lab Sample ID: LCS 160-551849/1-A
Matrix: Water
Analysis Batch: 555611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551849

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	92.5	U	40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-551588/21-A
Matrix: Water
Analysis Batch: 553453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551588

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.367	U	0.206	0.206	1.00	0.367	pCi/L	02/21/22 09:59	03/04/22 12:47	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.0	U	40 - 110	02/21/22 09:59	03/04/22 12:47	1
Y Carrier	86.7	U	40 - 110	02/21/22 09:59	03/04/22 12:47	1

Lab Sample ID: LCS 160-551588/1-A
Matrix: Water
Analysis Batch: 553454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551588

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.82	11.36	U	1.31	1.00	0.440	pCi/L	129	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.5	U	40 - 110
Y Carrier	83.7	U	40 - 110

Lab Sample ID: 500-212083-1 DU
Matrix: Water
Analysis Batch: 553454

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 551588

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	<0.408	U	<0.406	U	0.237	1.00	0.406	pCi/L	0.14	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	91.0	U	40 - 110
Y Carrier	81.9	U	40 - 110

Lab Sample ID: MB 160-551852/23-A
Matrix: Water
Analysis Batch: 553855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551852

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.327	U	0.178	0.178	1.00	0.327	pCi/L	02/22/22 15:42	03/07/22 13:30	1

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

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

Lab Sample ID: MB 160-551852/23-A
Matrix: Water
Analysis Batch: 553855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551852

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	95.8		40 - 110
Y Carrier	87.9		40 - 110

Prepared	Analyzed	Dil Fac
02/22/22 15:42	03/07/22 13:30	1
02/22/22 15:42	03/07/22 13:30	1

Lab Sample ID: LCS 160-551852/1-A
Matrix: Water
Analysis Batch: 553908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551852

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
									75 - 125
Radium-228	8.81	9.582		1.11	1.00	0.375	pCi/L	109	75 - 125

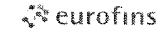
Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	92.5		40 - 110
Y Carrier	86.4		40 - 110


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241st Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534-5211

Chain of Custody Record

MKE 232



Client Information		Sampler <i>Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No.	COC No 500 98609-43273 1										
Client Contact Mitchel Dolan		Phone <i>262-781-0475</i>	E-mail Diana.Mockler@Eurofinset.com	State of Origin <i>IL</i>	Page Page 1 of 1										
Company KPRG and Associates Inc.		Analysis Requested			Job # <i>500-212083</i>										
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	 500-212083 COC		Preservation Codes A H L M Hexane B NaOH N None C Zn Acetate J Asha D Nitric Acid P Na2O4S E N HSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T SP Dodecalhydrate I Acetone U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z Other (specify)										
City Brookfield		TAT Requested (days)													
State Zip WI 53005		Compliance Project Yes No													
Phone 262 781-0475(Tel)		PC # 4502012555													
Email mitchel.d@kprg.com		WP #	Total Number of Containers 903.0 904.0 6010C 6020A 7470A 2540C 4500_F_C_SMA4500_CL_E_SMA4500_SO4_E		Special Instructions/Note										
Project Name Waukegan CCR Event Desc. Quarterly Waukegan CCR		Project # 50011597	Field Filtered Sample (Yes or No) Perform IIS/MSD (Yes or No)												
Site Illinois		SSOW#													
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil)	BT	Sub	A-A	Preservation Code	D	D	N	N		
<i>1</i>	MW-01	<i>2/8/22</i>	<i>1030</i>	<i>G</i>	<i>Water</i>				<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>2</i>	MW-02	<i>2/8/22</i>	<i>1124</i>	<i>G</i>	<i>Water</i>				<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>3</i>	MW-03	<i>2/8/22</i>	<i>1224</i>	<i>G</i>	<i>Water</i>				<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>4</i>	MW-04	<i>2/8/22</i>	<i>1321</i>	<i>G</i>	<i>Water</i>				<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
	MW-05				Water										
	MW-06				Water										
	MW-07				Water										
<i>5</i>	MW-16	<i>2/8/22</i>	<i>1405</i>	<i>G</i>	<i>Water</i>				<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
<i>6</i>	Duplicate	<i>2/8/22</i>	<i>-</i>	<i>G</i>	<i>Water</i>				<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>		
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poisonous <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)										Special Instructions/QC Requirements					
Empty Kit Reinquished by		Date		Time		Method of Shipment									
<i>MSR</i>		<i>2/8/22</i>		<i>1600</i>		<i>FEDEX</i>									
Reinquished by		Date/Time		Company		Received by		Date/Time		Company					
				<i>KPRG</i>		<i>Stephanie Hernandez</i>		<i>2/9/22</i>		<i>EEETA</i>					
Reinquished by		Date/Time		Company		Received by		Date/Time		Company					
Custody Seals Intact		Custody Seal No		Cooler Temperature(s) °C and Other Remarks											
<input type="checkbox"/> Yes <input type="checkbox"/> No				<i>-0.8 → -1.3, 21</i>											

Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins

Client Information
 Client Contact: Mitchel Dolan
 Phone: 262-622-1143
 Email: mitcheld@kprginc.com
 Project Name: Waukegan CCR Event Descri Quarterly Waukegan CCR

Lab PM
 Mockler, Diana J
 Email: Diana.Mockler@Eurofinset.com

Carrier Tracking No(s)
 500-98609-43273 1

Analysis Requested
 Job #: 500-212083
 500-212083 COC

Preservation Codes

A	HCl	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO ₂
D	Nitr. Acid	P	Na ₂ S ₂ O ₃
E	Na ₂ SO ₄	Q	Na ₂ SO ₃
F	MeOH	R	Na ₂ S ₂ O ₄
G	Amw. Ior	S	H ₂ SO ₄
H	Ascorbi. A-d	T	TSP Dodecahyd. are
I	Ice	U	Acetone
J	DI Wa. er	V	N ₂ CA
K	EDTA	W	pH 4-5
L	ELA	Z	Other (specify)

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note		
MW-09	2/10/22	1021	G	Water	N	N	X	X	X	
MW-11	2/10/22	1224	G	Water	N	N	X	X	X	
MW-14	2/10/22	1123	G	Water	N	N	X	X	X	
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by [Signature] **Date** 2/10/22 **Time** 1400 **Company** KPRG **Received by** FEDEX **Date/Time** 2/10/22 / 1400 **Company** FEDEX

Relinquished by [Signature] **Date/Time** 2/11/22 1005 **Company** EETA

Custody Seals Intact. Yes No **Custody Seal No.**

Locker Temperature(s) and Other Remarks 22

ORIGIN ID:FEPA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 10FEB22
ACTWGT: 53 15 LB
CAD: 6994083/S9FE2220
DIMS: 26x14x13 IN

BILL THIRD PARTY



500-212083 Wayb

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

Handwritten initials

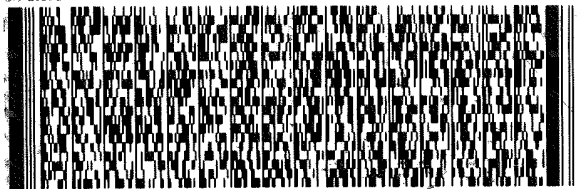
UNIVERSITY PARK IL 60484

(773) 474-0368

REF:

INU:

DEPT:



FedEx
Express



1 of 3

TRK# 2897 0385 6530
0201

MASTER

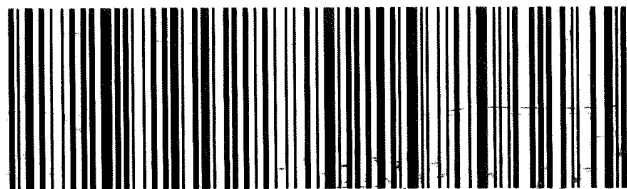
79 JOTA

FRI - 11 FEB 4:30P
STANDARD OVERNIGHT

AHS

60484

IL-US ORD



Part # 150297-483 JFD021055

22

AN 096002201227

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- 14

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:								
Shipping/Receiving		Phone:	Mockler, Diana J		500-157129.1								
Company:		E-Mail:	Diana.Mockler@Eurofinset.com	State of Origin:	Page:								
TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Illinois	Page 1 of 1								
Address:		Due Date Requested:	Job #:										
13715 Rider Trail North,		3/15/2022	500-212083-2										
City:		TAT Requested (days):	Preservation Codes:										
Earth City			A - HCL M - Hexane 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 Z - other (specify)										
State, Zip:		PO #:	Other:										
MO, 63045													
Phone:		WO #:											
314-298-8566(Tel) 314-298-8757(Fax)													
Email:		Project #:											
		50011597											
Project Name:		SSOW#:											
WaukeganCCR													
Site:													
NRG Midwest Generation Waukegan													
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overstabil, BT=Issue, AA=As)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Raz26Ra228_GFPc	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-01 (500-212083-1)	2/8/22	10:30 Central	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.		
MW-02 (500-212083-2)	2/8/22	11:24 Central	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.		
MW-03 (500-212083-3)	2/8/22	12:24 Central	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.		
MW-04 (500-212083-4)	2/8/22	13:21 Central	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.		
MW-16 (500-212083-5)	2/8/22	14:05 Central	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.		
Duplicate (500-212083-6)	2/8/22	Central	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.		
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (specify)													
Primary Deliverable Rank: 2													
Empty Kit Relinquished by:													
Date:													
Time:													
Method of Shipment:													
Received by: <i>STEPHANIE HERNANDEZ</i> Company: <i>FEIA</i>													
Date/Time: <i>2/10/22 11:30</i>													
Received by: <i>Diana Worthington</i> Company: <i>EMSN</i>													
Date/Time: <i>2/17/22 09:40</i>													
Received by:													
Date/Time:													
Cooler Temperature(s) °C and Other Remarks:													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No													
Custody Seal No.:													





Client Information (Sub Contract Lab)	Sampler: Lab PM: Mockler, Diana J	COC No: 500-157188.1	Carrier Tracking No(s):	Page: Page 1 of 1																																																												
Client Contact:	E-Mail: Diana.Mockler@Eurofinset.com	Job #: 500-212083-1	State of Origin: Illinois																																																													
Shipping/Receiving Company: TestAmerica Laboratories, Inc.	Accreditations Required (See note): NELAP - Illinois	Analysis Requested																																																														
Address: 13715 Rider Trail North, Earth City, MO, 63045	Due Date Requested: 3/2/2022	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">Sample ID (Lab ID)</th> <th style="width:10%;">Sample Date</th> <th style="width:10%;">Sample Time</th> <th style="width:10%;">Sample Type (C=Comp, G=grab)</th> <th style="width:10%;">Matrix (W=Water, S=solid, O=wastefoil, BT=tissue, A=Air)</th> <th style="width:10%;">Field Filtered Sample (Yes or No)</th> <th style="width:10%;">Perform MS/MSD (Yes or No)</th> <th style="width:10%;">903.0/PreSep_21 Standard Target List</th> <th style="width:10%;">904.0/PreSep_0 Standard Target List</th> <th style="width:10%;">R262Ra228_GFPc</th> <th style="width:10%;">Total Number of Containers</th> <th style="width:10%;">Special Instructions/Note:</th> </tr> <tr> <td>MMW-09 (500-212083-7)</td> <td>2/10/22</td> <td>10:21 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</td> </tr> <tr> <td>MMW-11 (500-212083-8)</td> <td>2/10/22</td> <td>12:24 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</td> </tr> <tr> <td>MMW-14 (500-212083-9)</td> <td>2/10/22</td> <td>11:23 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>			Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastefoil, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	R262Ra228_GFPc	Total Number of Containers	Special Instructions/Note:	MMW-09 (500-212083-7)	2/10/22	10:21 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	MMW-11 (500-212083-8)	2/10/22	12:24 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	MMW-14 (500-212083-9)	2/10/22	11:23 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;												
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State, Zip: MO, 63045	PO #:																																																															
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:																																																															
Email:																																																																
Project Name: Waukegan CCR	Project #: 50011597																																																															
Site: NRG Midwest Generation Waukegan	SSOW#:																																																															
<p>Sample Identification - Client ID (Lab ID)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=solid, O=wastefoil, BT=tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 Standard Target List</th> <th>904.0/PreSep_0 Standard Target List</th> <th>R262Ra228_GFPc</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>MMW-09 (500-212083-7)</td> <td>2/10/22</td> <td>10:21 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</td> </tr> <tr> <td>MMW-11 (500-212083-8)</td> <td>2/10/22</td> <td>12:24 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</td> </tr> <tr> <td>MMW-14 (500-212083-9)</td> <td>2/10/22</td> <td>11:23 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>					Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastefoil, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	R262Ra228_GFPc	Total Number of Containers	Special Instructions/Note:	MMW-09 (500-212083-7)	2/10/22	10:21 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	MMW-11 (500-212083-8)	2/10/22	12:24 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	MMW-14 (500-212083-9)	2/10/22	11:23 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;												
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<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Primary Deliverable Rank: 2</p>																																																																
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Alan Booth</i> FEDEX</p> <p>Relinquished by: <i>Sierra Worthington</i> FEDEX</p> <p>Relinquished by: <i>Sierra Worthington</i> FEDEX</p>																																																																
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Custody Seal No.:</p>																																																																
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p> <p>Special Instructions/QC Requirements:</p>																																																																
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Alan Booth</i> FEDEX</p> <p>Relinquished by: <i>Sierra Worthington</i> FEDEX</p> <p>Relinquished by: <i>Sierra Worthington</i> FEDEX</p>																																																																
<p>Cooler Temperature(s) °C and Other Remarks:</p>																																																																



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212083-2

Login Number: 212083

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-1.3,2.1,2.2 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212083-2

Login Number: 212083

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/12/22 08:58 AM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212083-2

Login Number: 212083

List Number: 3

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 02/14/22 10:33 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: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-01
Date Collected: 02/08/22 10:30
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:50	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:43	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-02
Date Collected: 02/08/22 11:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:50	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:43	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-03
Date Collected: 02/08/22 12:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:51	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:51	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-16

Date Collected: 02/08/22 14:05

Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:52	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: Duplicate

Date Collected: 02/08/22 00:00

Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:52	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-09

Date Collected: 02/10/22 10:21

Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551849	02/22/22 15:12	LPS	TAL SL
Total/NA	Analysis	903.0		1	555632	03/16/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551852	02/22/22 15:42	LPS	TAL SL
Total/NA	Analysis	904.0		1	553908	03/07/22 13:20	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555655	03/16/22 17:45	EMH	TAL SL

Client Sample ID: MW-11

Date Collected: 02/10/22 12:24

Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551849	02/22/22 15:12	LPS	TAL SL
Total/NA	Analysis	903.0		1	555632	03/16/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551852	02/22/22 15:42	LPS	TAL SL
Total/NA	Analysis	904.0		1	553908	03/07/22 13:20	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555655	03/16/22 17:45	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Client Sample ID: MW-14

Lab Sample ID: 500-212083-9

Date Collected: 02/10/22 11:23

Matrix: Water

Date Received: 02/11/22 10:05

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			551849	02/22/22 15:12	LPS	TAL SL
Total/NA	Analysis	903.0		1	555632	03/16/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551852	02/22/22 15:42	LPS	TAL SL
Total/NA	Analysis	904.0		1	553908	03/07/22 13:20	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555655	03/16/22 17:45	EMH	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-22

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

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-212083-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-212083-1	MW-01	83.5	
500-212083-1 DU	MW-01	91.0	
500-212083-2	MW-02	87.0	
500-212083-3	MW-03	84.0	
500-212083-4	MW-04	79.6	
500-212083-5	MW-16	85.8	
500-212083-6	Duplicate	80.0	
500-212083-7	MW-09	84.8	
500-212083-8	MW-11	86.0	
500-212083-9	MW-14	83.3	
LCS 160-551587/1-A	Lab Control Sample	87.5	
LCS 160-551849/1-A	Lab Control Sample	92.5	
MB 160-551587/21-A	Method Blank	90.0	
MB 160-551849/23-A	Method Blank	95.8	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-212083-1	MW-01	83.5	83.0
500-212083-1 DU	MW-01	91.0	81.9
500-212083-2	MW-02	87.0	82.6
500-212083-3	MW-03	84.0	82.2
500-212083-4	MW-04	79.6	81.1
500-212083-5	MW-16	85.8	82.6
500-212083-6	Duplicate	80.0	83.4
500-212083-7	MW-09	84.8	85.2
500-212083-8	MW-11	86.0	91.6
500-212083-9	MW-14	83.3	84.1
LCS 160-551588/1-A	Lab Control Sample	87.5	83.7
LCS 160-551852/1-A	Lab Control Sample	92.5	86.4
MB 160-551588/21-A	Method Blank	90.0	86.7
MB 160-551852/23-A	Method Blank	95.8	87.9
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			