

## **DATA SUMMARY POSTING**

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Metal Cleaning Basin (IEPA ID No. W1798010008-03)

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 1<sup>st</sup> quarter 2024 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. 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 for the Metal Cleaning Basin dated March 31, 2022. 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, Powerton Station, Pekin, IL. Metal Cleaning Basin.

Well	Date	Turbidity (NTU)
MW-13	2/24/2021	8.90
	4/8/2021	6.50
	5/13/2021	2.17
	6/3/2021	2.81
	6/29/2021	4.00
	8/23/2021	3.99
	10/1/2021	4.82
	11/30/2021	5.51
	1/6/2022	16.87
	2/9/2022	1.99
	6/8/2022	30.66
	8/31/2022	16.22
	11/16/2022	4.82
	2/23/2023	23.89
	5/17/2023	10.09
	8/30/2023	14.95
11/6/2023	15.43	
2/20/2024	9.11	
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/7/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
	11/16/2022	55.82
	2/23/2023	21.36
	5/17/2023	13.90
	8/30/2023	34.65
11/6/2023	9.00	
2/20/2024	23.85	
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/30/2021	8.86
	2/9/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
	11/16/2022	116.69
	2/23/2023	20.65
	5/18/2023	9.92
	8/30/2023	3.56
11/6/2023	6.02	
2/19/2024	6.01	

NM - Not Measured due to insufficient water volume.

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Metal Cleaning Basin.

Well	Date	Turbidity (NTU)
MW-14	2/24/2021	13.90
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
	7/20/2021	4.34
	8/23/2021	4.26
	10/1/2021	10.27
	11/29/2021	12.29
	2/9/2022	8.66
	6/8/2022	19.54
	8/31/2022	40.75
	11/17/2022	31.69
	2/21/2023	7.33
	5/17/2023	7.08
8/29/2023	1.95	
11/6/2023	34.43	
2/20/2024	6.79	
MW-20	3/12/2021	343.30
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
	7/20/2021	9.16
	8/23/2021	27.31
	10/1/2021	8.27
	11/29/2021	8.35
	2/8/2022	76.4
	6/9/2022	19.31
	9/1/2022	63.5
	11/17/2022	NM
	2/21/2023	NM
	6/26/2023	48.01
8/29/2023	NM	
11/8/2023	NM	
2/18/2024	10.54	
MW-21	3/12/2021	49.20
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33
	7/20/2021	44.93
	8/23/2021	19.43
	10/8/2021	94.82
	11/29/2021	20.2
	3/1/2022	7.64
	6/9/2022	7.56
	9/1/2022	NM
	11/17/2022	NM
	2/20/2023	25.99
	5/18/2023	7.50
8/30/2023	41.82	
11/8/2023	NM	
2/18/2024	143.02	

NM - Not Measured due to insufficient water volume.

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

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**JOB DESCRIPTION**

Powerton CCR MCB

**JOB NUMBER**

500-246400-1

# Eurofins Chicago

## Job Notes

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

## Authorization



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# Case Narrative

Client: KPRG and Associates, Inc.  
Project: Powerton CCR MCB

Job ID: 500-246400-1

**Job ID: 500-246400-1**

**Eurofins Chicago**

## Job Narrative 500-246400-1

### Receipt

The samples were received on 2/20/2024 10:00 AM. 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 0.0° C, 2.2° C and 3.6° C.

### Receipt Exceptions

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): "MW-17" 2/19 1500. Logged per containers (all analysis listed on COC).

### Metals

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

### General Chemistry

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

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# Method Summary

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

Job ID: 500-246400-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-246400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246400-1	MW-20	Water	02/19/24 11:54	02/20/24 10:00
500-246400-2	MW-21	Water	02/19/24 10:56	02/20/24 10:00
500-246400-3	MW-17	Water	02/19/24 15:00	02/20/24 10:00
500-246400-4	MW-15	Water	02/20/24 11:21	02/21/24 09:50
500-246400-5	MW-14	Water	02/20/24 10:16	02/21/24 09:50
500-246400-6	Duplicate	Water	02/20/24 00:00	02/21/24 09:50
500-246400-7	MW-13	Water	02/20/24 08:55	02/21/24 09:50

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- 9
- 10
- 11
- 12
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# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: MW-20**  
**Date Collected: 02/19/24 11:54**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 18:14	1
<b>Arsenic</b>	<b>0.0064</b>		0.0010		mg/L		03/07/24 17:07	03/18/24 13:06	1
<b>Barium</b>	<b>0.088</b>		0.0025		mg/L		03/07/24 17:07	03/15/24 18:14	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 13:06	1
<b>Boron</b>	<b>2.2</b>		0.050		mg/L		03/07/24 17:07	03/18/24 13:06	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:14	1
<b>Calcium</b>	<b>300</b>		0.20		mg/L		03/07/24 17:07	03/15/24 18:14	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:14	1
<b>Cobalt</b>	<b>0.0017</b>		0.0010		mg/L		03/07/24 17:07	03/15/24 18:14	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:14	1
Lithium	<10		10		ug/L		03/07/24 17:07	03/15/24 18:14	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:14	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/18/24 13:06	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 18:14	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00027</b>		0.00020		mg/L		03/07/24 10:05	03/08/24 08:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>2400</b>		10		mg/L			02/23/24 07:18	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			02/21/24 16:57	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.17</b>		0.10		mg/L			03/15/24 13:23	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>860</b>		100		mg/L			02/22/24 14:04	20

# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: MW-21**  
Date Collected: 02/19/24 10:56  
Date Received: 02/20/24 10:00

**Lab Sample ID: 500-246400-2**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 18:18	1
<b>Arsenic</b>	<b>0.029</b>		0.0010		mg/L		03/07/24 17:07	03/18/24 13:09	1
<b>Barium</b>	<b>0.46</b>		0.0025		mg/L		03/07/24 17:07	03/15/24 18:18	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 13:09	1
<b>Boron</b>	<b>0.28</b>		0.050		mg/L		03/07/24 17:07	03/18/24 13:09	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:18	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		03/07/24 17:07	03/15/24 18:18	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:18	1
<b>Cobalt</b>	<b>0.012</b>		0.0010		mg/L		03/07/24 17:07	03/15/24 18:18	1
<b>Lead</b>	<b>0.0042</b>		0.00050		mg/L		03/07/24 17:07	03/15/24 18:18	1
Lithium	<10		10		ug/L		03/07/24 17:07	03/15/24 18:18	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:18	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/18/24 13:09	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 18:18	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00024</b>		0.00020		mg/L		03/07/24 10:05	03/08/24 08:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>900</b>		10		mg/L			02/23/24 07:21	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>31</b>		2.0		mg/L			02/21/24 16:36	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.15</b>		0.10		mg/L			03/15/24 13:28	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>5.3</b>		5.0		mg/L			02/27/24 14:48	1

# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-246400-3**

**Date Collected: 02/19/24 15:00**

**Matrix: Water**

**Date Received: 02/20/24 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 18:21	1
<b>Arsenic</b>	<b>0.0027</b>		0.0010		mg/L		03/07/24 17:07	03/18/24 13:13	1
<b>Barium</b>	<b>0.026</b>		0.0025		mg/L		03/07/24 17:07	03/15/24 18:21	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 13:13	1
<b>Boron</b>	<b>1.2</b>		0.050		mg/L		03/07/24 17:07	03/18/24 13:13	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:21	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		03/07/24 17:07	03/15/24 18:21	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:21	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 18:21	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:21	1
<b>Lithium</b>	<b>14</b>		10		ug/L		03/07/24 17:07	03/15/24 18:21	1
<b>Molybdenum</b>	<b>0.047</b>		0.0050		mg/L		03/07/24 17:07	03/15/24 18:21	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/18/24 13:13	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 18:21	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/24 10:05	03/08/24 08:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1600</b>		10		mg/L			02/23/24 07:23	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>180</b>		10		mg/L			02/21/24 16:57	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.67</b>		0.10		mg/L			03/15/24 13:33	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>570</b>		100		mg/L			02/22/24 14:04	20

# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-246400-4**

Date Collected: 02/20/24 11:21

Matrix: Water

Date Received: 02/21/24 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 18:25	1
<b>Arsenic</b>	<b>0.0069</b>		0.0010		mg/L		03/07/24 17:07	03/18/24 13:17	1
<b>Barium</b>	<b>0.052</b>		0.0025		mg/L		03/07/24 17:07	03/15/24 18:25	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 13:17	1
<b>Boron</b>	<b>1.2</b>		0.050		mg/L		03/07/24 17:07	03/18/24 13:17	1
<b>Cadmium</b>	<b>0.00057</b>		0.00050		mg/L		03/07/24 17:07	03/15/24 18:25	1
<b>Calcium</b>	<b>190</b>		0.20		mg/L		03/07/24 17:07	03/15/24 18:25	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:25	1
<b>Cobalt</b>	<b>0.0036</b>		0.0010		mg/L		03/07/24 17:07	03/15/24 18:25	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:25	1
<b>Lithium</b>	<b>26</b>		10		ug/L		03/07/24 17:07	03/15/24 18:25	1
<b>Molybdenum</b>	<b>0.050</b>		0.0050		mg/L		03/07/24 17:07	03/15/24 18:25	1
<b>Selenium</b>	<b>0.010</b>		0.0025		mg/L		03/07/24 17:07	03/18/24 13:17	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 18:25	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/24 10:05	03/08/24 08:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			02/23/24 07:26	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>200</b>		10		mg/L			02/25/24 13:27	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.38</b>		0.10		mg/L			03/15/24 13:38	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>390</b>		50		mg/L			02/22/24 14:04	10

# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: MW-14**  
Date Collected: 02/20/24 10:16  
Date Received: 02/21/24 09:50

**Lab Sample ID: 500-246400-5**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:33	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		03/07/24 17:12	03/13/24 17:33	1
<b>Barium</b>	<b>0.039</b>		0.0025		mg/L		03/07/24 17:12	03/13/24 17:33	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:40	1
<b>Boron</b>	<b>1.6</b>		0.050		mg/L		03/07/24 17:12	03/18/24 13:40	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:33	1
<b>Calcium</b>	<b>200</b>		0.20		mg/L		03/07/24 17:12	03/18/24 13:40	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:33	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:33	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:33	1
<b>Lithium</b>	<b>22</b>		10		ug/L		03/07/24 17:12	03/13/24 17:33	1
<b>Molybdenum</b>	<b>0.026</b>		0.0050		mg/L		03/07/24 17:12	03/13/24 17:33	1
<b>Selenium</b>	<b>0.0039</b>		0.0025		mg/L		03/07/24 17:12	03/13/24 17:33	1
<b>Thallium</b>	<b>0.0021</b>		0.0020		mg/L		03/07/24 17:12	03/13/24 17:33	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/24 10:05	03/08/24 08:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>2000</b>		10		mg/L			02/23/24 07:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			02/25/24 12:16	5
<b>Fluoride (SM 4500 F C)</b>	<b>1.0</b>		0.10		mg/L			03/15/24 13:43	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>670</b>		100		mg/L			02/27/24 16:20	20

# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: Duplicate**  
Date Collected: 02/20/24 00:00  
Date Received: 02/21/24 09:50

**Lab Sample ID: 500-246400-6**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:37	1
<b>Arsenic</b>	<b>0.024</b>		0.0010		mg/L		03/07/24 17:12	03/13/24 17:37	1
<b>Barium</b>	<b>0.14</b>		0.0025		mg/L		03/07/24 17:12	03/13/24 17:37	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:43	1
<b>Boron</b>	<b>3.0</b>		0.050		mg/L		03/07/24 17:12	03/18/24 13:43	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:37	1
<b>Calcium</b>	<b>180</b>		0.20		mg/L		03/07/24 17:12	03/18/24 13:43	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:37	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:37	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:37	1
Lithium	<10		10		ug/L		03/07/24 17:12	03/13/24 17:37	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		03/07/24 17:12	03/13/24 17:37	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:37	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:37	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/24 10:05	03/08/24 08:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			02/23/24 07:31	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			02/25/24 12:16	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.45</b>		0.10		mg/L			03/15/24 13:47	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		50		mg/L			02/27/24 16:20	10



# Client Sample Results

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

Job ID: 500-246400-1

**Client Sample ID: MW-13**  
Date Collected: 02/20/24 08:55  
Date Received: 02/21/24 09:50

**Lab Sample ID: 500-246400-7**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:41	1
<b>Arsenic</b>	<b>0.025</b>		0.0010		mg/L		03/07/24 17:12	03/13/24 17:41	1
<b>Barium</b>	<b>0.15</b>		0.0025		mg/L		03/07/24 17:12	03/13/24 17:41	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:47	1
<b>Boron</b>	<b>3.0</b>		0.050		mg/L		03/07/24 17:12	03/18/24 13:47	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:41	1
<b>Calcium</b>	<b>180</b>		0.20		mg/L		03/07/24 17:12	03/18/24 13:47	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:41	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:41	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:41	1
Lithium	<10		10		ug/L		03/07/24 17:12	03/13/24 17:41	1
<b>Molybdenum</b>	<b>0.015</b>		0.0050		mg/L		03/07/24 17:12	03/13/24 17:41	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:41	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:41	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/24 10:05	03/08/24 08:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			02/23/24 07:34	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			02/25/24 12:15	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.44</b>		0.10		mg/L			03/15/24 13:52	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		50		mg/L			02/27/24 16:18	10

# Definitions/Glossary

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

Job ID: 500-246400-1

## 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: Powerton CCR MCB

Job ID: 500-246400-1

## Metals

### Prep Batch: 757292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	7470A	
500-246400-2	MW-21	Total/NA	Water	7470A	
500-246400-3	MW-17	Total/NA	Water	7470A	
500-246400-4	MW-15	Total/NA	Water	7470A	
500-246400-5	MW-14	Total/NA	Water	7470A	
500-246400-6	Duplicate	Total/NA	Water	7470A	
500-246400-7	MW-13	Total/NA	Water	7470A	
MB 500-757292/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-757292/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-246400-7 MS	MW-13	Total/NA	Water	7470A	
500-246400-7 MSD	MW-13	Total/NA	Water	7470A	
500-246400-7 DU	MW-13	Total/NA	Water	7470A	

### Prep Batch: 757380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total Recoverable	Water	3005A	
500-246400-2	MW-21	Total Recoverable	Water	3005A	
500-246400-3	MW-17	Total Recoverable	Water	3005A	
500-246400-4	MW-15	Total Recoverable	Water	3005A	
MB 500-757380/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-757380/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 757383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-5	MW-14	Total Recoverable	Water	3005A	
500-246400-6	Duplicate	Total Recoverable	Water	3005A	
500-246400-7	MW-13	Total Recoverable	Water	3005A	
MB 500-757383/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-757383/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 757491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	7470A	757292
500-246400-2	MW-21	Total/NA	Water	7470A	757292
500-246400-3	MW-17	Total/NA	Water	7470A	757292
500-246400-4	MW-15	Total/NA	Water	7470A	757292
500-246400-5	MW-14	Total/NA	Water	7470A	757292
500-246400-6	Duplicate	Total/NA	Water	7470A	757292
500-246400-7	MW-13	Total/NA	Water	7470A	757292
MB 500-757292/12-A	Method Blank	Total/NA	Water	7470A	757292
LCS 500-757292/13-A	Lab Control Sample	Total/NA	Water	7470A	757292
500-246400-7 MS	MW-13	Total/NA	Water	7470A	757292
500-246400-7 MSD	MW-13	Total/NA	Water	7470A	757292
500-246400-7 DU	MW-13	Total/NA	Water	7470A	757292

### Analysis Batch: 758285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-5	MW-14	Total Recoverable	Water	6020B	757383
500-246400-6	Duplicate	Total Recoverable	Water	6020B	757383
500-246400-7	MW-13	Total Recoverable	Water	6020B	757383
MB 500-757383/1-A	Method Blank	Total Recoverable	Water	6020B	757383

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# QC Association Summary

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

Job ID: 500-246400-1

## Metals (Continued)

### Analysis Batch: 758285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-757383/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757383

### Analysis Batch: 758708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total Recoverable	Water	6020B	757380
500-246400-2	MW-21	Total Recoverable	Water	6020B	757380
500-246400-3	MW-17	Total Recoverable	Water	6020B	757380
500-246400-4	MW-15	Total Recoverable	Water	6020B	757380
MB 500-757380/1-A	Method Blank	Total Recoverable	Water	6020B	757380
LCS 500-757380/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757380

### Analysis Batch: 758908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total Recoverable	Water	6020B	757380
500-246400-2	MW-21	Total Recoverable	Water	6020B	757380
500-246400-3	MW-17	Total Recoverable	Water	6020B	757380
500-246400-4	MW-15	Total Recoverable	Water	6020B	757380
500-246400-5	MW-14	Total Recoverable	Water	6020B	757383
500-246400-6	Duplicate	Total Recoverable	Water	6020B	757383
500-246400-7	MW-13	Total Recoverable	Water	6020B	757383
MB 500-757380/1-A	Method Blank	Total Recoverable	Water	6020B	757380
MB 500-757383/1-A	Method Blank	Total Recoverable	Water	6020B	757383
LCS 500-757380/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757380
LCS 500-757383/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757383

## General Chemistry

### Analysis Batch: 755087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	SM 4500 Cl- E	
500-246400-2	MW-21	Total/NA	Water	SM 4500 Cl- E	
500-246400-3	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-755087/115	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755087/116	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 755264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-246400-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-246400-4	MW-15	Total/NA	Water	SM 4500 SO4 E	
MB 500-755264/127	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-755264/128	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 755370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	SM 2540C	
500-246400-2	MW-21	Total/NA	Water	SM 2540C	
500-246400-3	MW-17	Total/NA	Water	SM 2540C	
500-246400-4	MW-15	Total/NA	Water	SM 2540C	
500-246400-5	MW-14	Total/NA	Water	SM 2540C	
500-246400-6	Duplicate	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 500-246400-1

## General Chemistry (Continued)

### Analysis Batch: 755370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-7	MW-13	Total/NA	Water	SM 2540C	
MB 500-755370/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-755370/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 755535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-4	MW-15	Total/NA	Water	SM 4500 CI- E	
500-246400-5	MW-14	Total/NA	Water	SM 4500 CI- E	
500-246400-6	Duplicate	Total/NA	Water	SM 4500 CI- E	
500-246400-7	MW-13	Total/NA	Water	SM 4500 CI- E	
MB 500-755535/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-755535/67	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-755535/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-755535/68	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 756044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-2	MW-21	Total/NA	Water	SM 4500 SO4 E	
500-246400-5	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-246400-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-246400-7	MW-13	Total/NA	Water	SM 4500 SO4 E	
MB 500-756044/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-756044/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 758551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	SM 4500 F C	
500-246400-2	MW-21	Total/NA	Water	SM 4500 F C	
500-246400-3	MW-17	Total/NA	Water	SM 4500 F C	
500-246400-4	MW-15	Total/NA	Water	SM 4500 F C	
500-246400-5	MW-14	Total/NA	Water	SM 4500 F C	
500-246400-6	Duplicate	Total/NA	Water	SM 4500 F C	
500-246400-7	MW-13	Total/NA	Water	SM 4500 F C	
MB 500-758551/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-758551/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

# QC Sample Results

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

Job ID: 500-246400-1

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

**Lab Sample ID: MB 500-757380/1-A**  
**Matrix: Water**  
**Analysis Batch: 758708**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 16:32	1
Barium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 16:32	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 16:32	1
Calcium	<0.20		0.20		mg/L		03/07/24 17:07	03/15/24 16:32	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 16:32	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 16:32	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 16:32	1
Lithium	<10		10		ug/L		03/07/24 17:07	03/15/24 16:32	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 16:32	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 16:32	1

**Lab Sample ID: MB 500-757380/1-A**  
**Matrix: Water**  
**Analysis Batch: 758908**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:12	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:12	1
Boron	<0.050		0.050		mg/L		03/07/24 17:07	03/18/24 12:12	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/18/24 12:12	1

**Lab Sample ID: LCS 500-757380/2-A**  
**Matrix: Water**  
**Analysis Batch: 758708**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.481		mg/L		96	80 - 120
Barium	2.00	1.73		mg/L		87	80 - 120
Cadmium	0.0500	0.0442		mg/L		88	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Chromium	0.200	0.185		mg/L		93	80 - 120
Cobalt	0.500	0.460		mg/L		92	80 - 120
Lead	0.100	0.0988		mg/L		99	80 - 120
Lithium	500	461		ug/L		92	80 - 120
Molybdenum	1.00	0.838		mg/L		84	80 - 120
Thallium	0.100	0.0932		mg/L		93	80 - 120

**Lab Sample ID: LCS 500-757380/2-A**  
**Matrix: Water**  
**Analysis Batch: 758908**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0962		mg/L		96	80 - 120
Beryllium	0.0500	0.0443		mg/L		89	80 - 120
Boron	1.00	0.921		mg/L		92	80 - 120
Selenium	0.100	0.0969		mg/L		97	80 - 120

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# QC Sample Results

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

Job ID: 500-246400-1

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

**Lab Sample ID: MB 500-757383/1-A**  
**Matrix: Water**  
**Analysis Batch: 758285**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757383**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:30	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:30	1
Barium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:30	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:30	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Lithium	<10		10		ug/L		03/07/24 17:12	03/13/24 17:30	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:30	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:30	1

**Lab Sample ID: MB 500-757383/1-A**  
**Matrix: Water**  
**Analysis Batch: 758908**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757383**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:32	1
Boron	<0.050		0.050		mg/L		03/07/24 17:12	03/18/24 13:32	1
Calcium	<0.20		0.20		mg/L		03/07/24 17:12	03/18/24 13:32	1

**Lab Sample ID: LCS 500-757383/2-A**  
**Matrix: Water**  
**Analysis Batch: 758285**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757383**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0894		mg/L		89	80 - 120
Barium	2.00	1.73		mg/L		86	80 - 120
Cadmium	0.0500	0.0447		mg/L		89	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.471		mg/L		94	80 - 120
Lead	0.100	0.0997		mg/L		100	80 - 120
Lithium	500	434		ug/L		87	80 - 120
Molybdenum	1.00	0.857		mg/L		86	80 - 120
Selenium	0.100	0.0958		mg/L		96	80 - 120
Thallium	0.100	0.0993		mg/L		99	80 - 120

**Lab Sample ID: LCS 500-757383/2-A**  
**Matrix: Water**  
**Analysis Batch: 758908**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 757383**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.01		mg/L		101	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120

# QC Sample Results

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

Job ID: 500-246400-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-757292/12-A**  
**Matrix: Water**  
**Analysis Batch: 757491**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 757292**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/24 10:05	03/08/24 08:07	1

**Lab Sample ID: LCS 500-757292/13-A**  
**Matrix: Water**  
**Analysis Batch: 757491**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 757292**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00207		mg/L		103	80 - 120

**Lab Sample ID: 500-246400-7 MS**  
**Matrix: Water**  
**Analysis Batch: 757491**

**Client Sample ID: MW-13**  
**Prep Type: Total/NA**  
**Prep Batch: 757292**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125

**Lab Sample ID: 500-246400-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 757491**

**Client Sample ID: MW-13**  
**Prep Type: Total/NA**  
**Prep Batch: 757292**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125	0	20

**Lab Sample ID: 500-246400-7 DU**  
**Matrix: Water**  
**Analysis Batch: 757491**

**Client Sample ID: MW-13**  
**Prep Type: Total/NA**  
**Prep Batch: 757292**

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 500-755370/1**  
**Matrix: Water**  
**Analysis Batch: 755370**

**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			02/23/24 06:40	1

**Lab Sample ID: LCS 500-755370/2**  
**Matrix: Water**  
**Analysis Batch: 755370**

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

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



# QC Sample Results

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

Job ID: 500-246400-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 500-755087/115**  
**Matrix: Water**  
**Analysis Batch: 755087**

**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			02/21/24 16:35	1

**Lab Sample ID: LCS 500-755087/116**  
**Matrix: Water**  
**Analysis Batch: 755087**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.3		mg/L		102	85 - 115

**Lab Sample ID: MB 500-755535/16**  
**Matrix: Water**  
**Analysis Batch: 755535**

**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			02/25/24 11:49	1

**Lab Sample ID: MB 500-755535/67**  
**Matrix: Water**  
**Analysis Batch: 755535**

**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			02/25/24 13:26	1

**Lab Sample ID: LCS 500-755535/17**  
**Matrix: Water**  
**Analysis Batch: 755535**

**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: LCS 500-755535/68**  
**Matrix: Water**  
**Analysis Batch: 755535**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	85 - 115

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 500-758551/3**  
**Matrix: Water**  
**Analysis Batch: 758551**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/15/24 12:07	1

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# QC Sample Results

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

Job ID: 500-246400-1

## Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-758551/4  
Matrix: Water  
Analysis Batch: 758551

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.70		mg/L		97	90 - 119

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-755264/127  
Matrix: Water  
Analysis Batch: 755264

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			02/22/24 13:39	1

Lab Sample ID: LCS 500-755264/128  
Matrix: Water  
Analysis Batch: 755264

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	22.7		mg/L		113	88 - 123

Lab Sample ID: MB 500-756044/16  
Matrix: Water  
Analysis Batch: 756044

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			02/27/24 14:43	1


Lab Sample ID: LCS 500-756044/17  
Matrix: Water  
Analysis Batch: 756044

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	22.4		mg/L		112	88 - 123

Chain of Custody Record

**MKE 232**

<b>Client Information</b>		Sampler: <i>Jack Mysler</i>		Lab PM Mockler, Diana J		Carrier Tracking No(s).		COC No 500-120484-46460 1											
Client Contact: Mitchel Dolan		Phone: <i>762-622-1143</i>		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: <i>IL</i>		Page: Page 1 of 1 <i>500-246400</i>											
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Requested</b>				Job #: <i>17313.1</i>											
Address: 414 Plaza Drive Suite 106		Due Date Requested: <i>Standard</i>						<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acelone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)											
City: Westmont		TAT Requested (days): <i>Standard</i>																	
State, Zip: IL, 60559		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Phone: 262-781-0475 (Tel)		PO #: 4502125100																	
Email: mitcheld@kprginc.com		WO #:																	
Project Name: Powerton CCR MCB		Project #: 50018578																	
Site: <i>Illinois</i>		SSOW#:		Field Filtered Sample (Yes or No) <input type="checkbox"/>		Field Filtered Sample (Yes or No) <input type="checkbox"/>		Field Filtered Sample (Yes or No) <input type="checkbox"/>											
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	Special Instructions/Note:											
Preservation Code																			
<del>MW-15</del>							Water												
<del>MW-14</del>							Water												
<del>MW-12</del>							Water												
1	MW-20			<i>2/19/24</i>	<i>1154</i>	<i>G</i>	Water	N	N	X	X	X	X	X					
2	MW-21			<i>2/19/24</i>	<i>1056</i>	<i>G</i>	Water	N	N	X	X	X	X	X					
<del>Duplicate</del>							Water												
<del>MW-13</del>							Water												
3	MW-17			<i>2/19/24</i>	<i>1500</i>		Water												<i>Added by EETA 2/20/24 GH</i>
<b>Possible Hazard Identification</b>								<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>											
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological								<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Deliverable Requested I, II, III, IV, Other (specify)								Special Instructions/QC Requirements											
Empty Kit Relinquished by		Date		Time		Method of Shipment.													
Relinquished by: <i>Jack Mysler</i>		Date/Time: <i>2/19/24 1700</i>		Company: <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time: <i>2/19/24 1700</i>		Company: <i>FedEx</i>									
Relinquished by:		Date/Time:		Company:		Received by: <i>Stephanie Hernandez</i>		Date/Time: <i>2/20/24 1000</i>		Company: <i>EETA</i>									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>1.7+2.2, A.1+3.6</i>															

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**Eurofins Chicago**

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

**Chain of Custody Record**

**MKE 232**

eurofins | Environmental Testing

<b>Client Information</b>		Sampler: <u>Jack Misner</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s):		COC No: <u>500-120484-46460 1</u>													
Client Contact: <u>Michael Dolan Kaelyn Sperle</u>		Phone: <u>262-622-1143</u>		E-Mail: <u>Diana Mockler@et.eurofins.com</u>		State of Origin: <u>IL</u>		Page: <u>Page 1 of 1</u>													
Company: <u>KPRG and Associates, Inc.</u>		Due Date Requested: <u>Standard</u>		<b>Analysis Requested</b>		Job #: <u>500-246400</u>		Preservation Codes:													
Address: <u>414 Plaza Drive Suite 106</u>		TAT Requested (days): <u>Standard</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		 500-246400 COC		A - HCL                      M - Hexane B - NaOH                    N - None C - Zn Acetate              O - AsNaO2 D - Nitric Acid              P - Na2O4S E - NaHSO4                 Q - Na2SO3 F - MeOH                    R - Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid         T - TSP Dodecahydrate I - Ice                         U - Acetone J - DI Water                V - MCAA K - EDTA                    W - pH 4-5 L - EDA                      Y - Trizma Z - other (specify)													
City: <u>Westmont</u>		PO #: <u>4502125100</u>		WO#:		Field Filtered Sample (Yes or No)		Total Number of Containers													
State, Zip: <u>IL, 60659</u>		Project Name: <u>Powerton CCR MCB</u>		Project #: <u>50018578</u>		2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E 903.0 - Radium 226 904.0 - Radium 228 Ra226Ra228_GFFC - Rad Combined 6010C, 6020A, 7470A		Other:													
Phone: <u>262-781-0475(Tel)</u>		SSOW#:		Site: <u>Illinois</u>		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:													
Email: <u>mltcheld@kprginc.com</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code													
Project Name: <u>Powerton CCR MCB</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code													
Site: <u>Illinois</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code													
4 5 6 7 8 9 10 11 12 13		MW-15 MW-14 <del>MW-17</del> <del>MW-20</del> <del>MW-21</del> Duplicate MW-13 Trip Blank		2/20/24 1121 2/20/24 1016   2/20/24 - 2/20/24 0855		G G   G G		Water Water   Water Water Water		NN NN   NN NN		X X   X X		X X   X X		X X   X X		X X   X X		X X   X X	
Possible Hazard Identification <input checked="" 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements																
Empty Kit Relinquished by		Date		Time		Method of Shipment:															
Relinquished by: <u>Jack Misner</u>		Date/Time: <u>2/20/24 1600</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>2/20/24 1600</u>		Company: <u>FedEx</u>											
Relinquished by:		Date/Time:		Company:		Received by: <u>Sturhorne Hemond</u>		Date/Time: <u>2/21/24 0950</u>		Company: <u>EEVA</u>											
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>-0.5 -&gt; 0.0</u>																	

ORIGIN ID:PIAA (262) 622-1143  
JACK MISNER  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 19FEB24  
ACTWGT: 59.70 LB  
CAD: 6994780/SSFE2500  
DIMS: 24x13x14 IN  
BILL THIRD PARTY

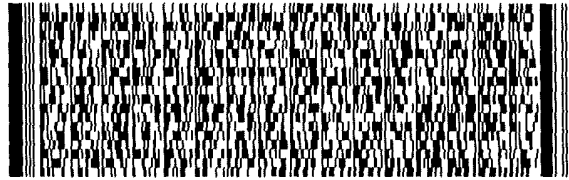
Part # 15629F3M3R1R11053EXP 10/24

TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666 REF: DEPT:  
IRV: PO:

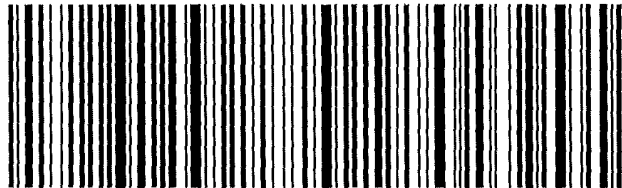


FedEx Express  
REL# 3785346

1 of 2  
TRK# 2711 6218 6854  
## MASTER ##

XP JOTA

TUE - 20 FEB 10:30A  
PRIORITY OVERNIGHT  
AHS  
60484  
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143  
JACK MISNER  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 19FEB24  
ACTWGT: 59.70 LB  
CAD: 6994780/SSFE2500  
DIMS: 24x13x14 IN  
BILL THIRD PARTY

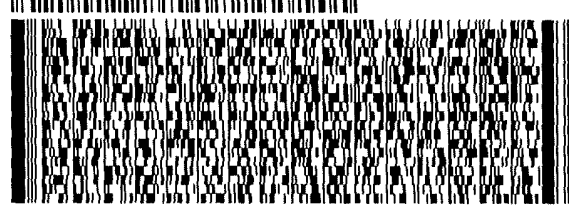
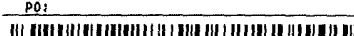
Part # 15629F3M3R1R11053EXP 10/24

TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666 REF: DEPT:  
IRV: PO:

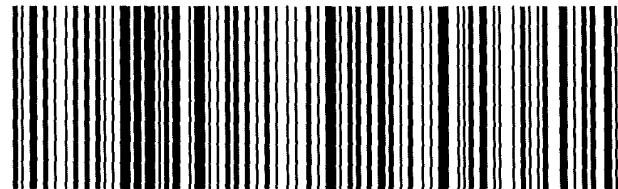


FedEx Express  
REL# 3785346

2 of 2  
MPS# 2711 6218 6865  
Mstr# 2711 6218 6854

XP JOTA

TUE - 20 FEB 10:30A  
PRIORITY OVERNIGHT  
AHS  
60484  
IL-US ORD



500-246400 Waybi

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- 13

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 20FEB24  
ACTWGT: 62.00 LB  
CAD: 6994779/SSFE2500  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 1562972499 / REF: 998P 10/24

TO **ATTN SAMPLE RECEIVING**  
**EUROFINS**  
**2417 BOND ST**



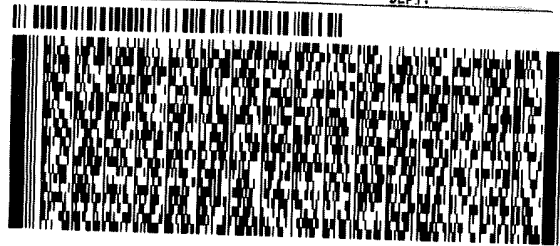
**UNIVERSITY PARK IL 60484**

(000) 000-0000  
INU:  
PO:

REF:

DEPT:

500-246400 Waybi



**FedEx**  
Express



3 of 3

MPS# 2712 1216 5030  
0263

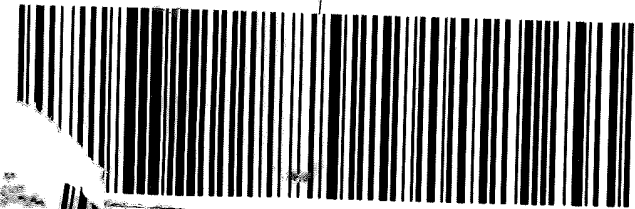
Mstr# 2712 1216 5019

0201

**WED - 21 FEB 10:30A**  
**PRIORITY OVERNIGHT**

**XP JOTA**

**60484**  
IL-US **ORD**





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246400-1

**Login Number: 246400**

**List Number: 1**

**Creator: Hernandez, Stephanie**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,3.6,0.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Lab Chronicle

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

Job ID: 500-246400-1

**Client Sample ID: MW-20**  
**Date Collected: 02/19/24 11:54**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 18:14
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:06
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:11
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:18
Total/NA	Analysis	SM 4500 CI- E		5	755087	TR	EET CHI	02/21/24 16:57
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:23
Total/NA	Analysis	SM 4500 SO4 E		20	755264	TR	EET CHI	02/22/24 14:04

**Client Sample ID: MW-21**  
**Date Collected: 02/19/24 10:56**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 18:18
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:09
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:18
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:21
Total/NA	Analysis	SM 4500 CI- E		1	755087	TR	EET CHI	02/21/24 16:36
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:28
Total/NA	Analysis	SM 4500 SO4 E		1	756044	TR	EET CHI	02/27/24 14:48

**Client Sample ID: MW-17**  
**Date Collected: 02/19/24 15:00**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 18:21
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:13
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:20
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:23
Total/NA	Analysis	SM 4500 CI- E		5	755087	TR	EET CHI	02/21/24 16:57
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:33
Total/NA	Analysis	SM 4500 SO4 E		20	755264	TR	EET CHI	02/22/24 14:04



# Lab Chronicle

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

Job ID: 500-246400-1

**Client Sample ID: MW-15**  
**Date Collected: 02/20/24 11:21**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 18:25
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:17
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:22
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:26
Total/NA	Analysis	SM 4500 CI- E		5	755535	TR	EET CHI	02/25/24 13:27
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:38
Total/NA	Analysis	SM 4500 SO4 E		10	755264	TR	EET CHI	02/22/24 14:04

**Client Sample ID: MW-14**  
**Date Collected: 02/20/24 10:16**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:33
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:40
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:24
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:29
Total/NA	Analysis	SM 4500 CI- E		5	755535	TR	EET CHI	02/25/24 12:16
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:43
Total/NA	Analysis	SM 4500 SO4 E		20	756044	TR	EET CHI	02/27/24 16:20

**Client Sample ID: Duplicate**  
**Date Collected: 02/20/24 00:00**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:37
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:43
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:26
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:31
Total/NA	Analysis	SM 4500 CI- E		5	755535	TR	EET CHI	02/25/24 12:16
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:47
Total/NA	Analysis	SM 4500 SO4 E		10	756044	TR	EET CHI	02/27/24 16:20

# Lab Chronicle

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

Job ID: 500-246400-1

**Client Sample ID: MW-13**  
**Date Collected: 02/20/24 08:55**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:41
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:47
Total/NA	Prep	7470A			757292	MJG	EET CHI	03/07/24 10:05 - 03/07/24 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	757491	MJG	EET CHI	03/08/24 08:28
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:34
Total/NA	Analysis	SM 4500 Cl- E		5	755535	TR	EET CHI	02/25/24 12:15
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:52
Total/NA	Analysis	SM 4500 SO4 E		10	756044	TR	EET CHI	02/27/24 16:18

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

**Laboratory References:**

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



# Accreditation/Certification Summary

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

Job ID: 500-246400-1

## Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 3/25/2024 12:17:51 PM

## JOB DESCRIPTION

Powerton CCR MCB (RAD)

## JOB NUMBER

500-246400-2

# Eurofins Chicago

## Job Notes

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

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

## Authorization



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Authorized for release by  
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(219)252-7570



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# Case Narrative

Client: KPRG and Associates, Inc.  
Project: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Job ID: 500-246400-2**

**Eurofins Chicago**

## Job Narrative 500-246400-2

### Receipt

The samples were received on 2/20/2024 10:00 AM. 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 0.0° C, 2.2° C and 3.6° C.

### Receipt Exceptions

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): "MW-17" 2/19 1500. Logged per containers (all analysis listed on COC).

### RAD

Methods 904.0, 9320: Radium-228 batch 649208

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: MW-21 (500-246400-2). Analytical results are reported with the detection limit achieved.

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

Eurofins Chicago

# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

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# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246400-1	MW-20	Water	02/19/24 11:54	02/20/24 10:00
500-246400-2	MW-21	Water	02/19/24 10:56	02/20/24 10:00
500-246400-3	MW-17	Water	02/19/24 15:00	02/20/24 10:00
500-246400-4	MW-15	Water	02/20/24 11:21	02/21/24 09:50
500-246400-5	MW-14	Water	02/20/24 10:16	02/21/24 09:50
500-246400-6	Duplicate	Water	02/20/24 00:00	02/21/24 09:50
500-246400-7	MW-13	Water	02/20/24 08:55	02/21/24 09:50

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# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: MW-20**  
**Date Collected: 02/19/24 11:54**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-1**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.294</b>		0.135	0.138	1.00	0.161	pCi/L	02/22/24 10:00	03/15/24 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					02/22/24 10:00	03/15/24 07:15	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.905</b>		0.569	0.575	1.00	0.846	pCi/L	02/22/24 10:04	03/08/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					02/22/24 10:04	03/08/24 12:04	1
Y Carrier	74.0		30 - 110					02/22/24 10:04	03/08/24 12:04	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.20</b>		0.585	0.591	5.00	0.846	pCi/L		03/15/24 13:35	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: MW-21**  
**Date Collected: 02/19/24 10:56**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-2**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.673</b>		0.253	0.260	1.00	0.270	pCi/L	02/22/24 10:00	03/15/24 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		30 - 110					02/22/24 10:00	03/15/24 07:15	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.86</b>	<b>G</b>	0.961	0.976	1.00	1.37	pCi/L	02/22/24 10:04	03/08/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		30 - 110					02/22/24 10:04	03/08/24 12:04	1
Y Carrier	81.1		30 - 110					02/22/24 10:04	03/08/24 12:04	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>2.53</b>		0.994	1.01	5.00	1.37	pCi/L		03/18/24 12:28	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: MW-17**

**Lab Sample ID: 500-246400-3**

Date Collected: 02/19/24 15:00

Matrix: Water

Date Received: 02/20/24 10:00

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.117	U	0.0549	0.0549	1.00	0.117	pCi/L	02/22/24 10:00	03/15/24 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					02/22/24 10:00	03/15/24 07:15	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.584	U	0.376	0.378	1.00	0.584	pCi/L	02/22/24 10:04	03/08/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					02/22/24 10:04	03/08/24 12:04	1
Y Carrier	82.6		30 - 110					02/22/24 10:04	03/08/24 12:04	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.584	U	0.380	0.382	5.00	0.584	pCi/L		03/18/24 12:28	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: MW-15**  
**Date Collected: 02/20/24 11:21**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-4**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.122	U	0.0783	0.0786	1.00	0.122	pCi/L	02/23/24 09:44	03/18/24 15:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					02/23/24 09:44	03/18/24 15:53	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.517	U	0.295	0.296	1.00	0.517	pCi/L	02/23/24 09:49	03/13/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					02/23/24 09:49	03/13/24 12:08	1
Y Carrier	84.5		30 - 110					02/23/24 09:49	03/13/24 12:08	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.517	U	0.305	0.306	5.00	0.517	pCi/L		03/22/24 14:56	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: MW-14**  
**Date Collected: 02/20/24 10:16**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-5**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.103	U	0.0612	0.0613	1.00	0.103	pCi/L	02/23/24 09:44	03/18/24 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					02/23/24 09:44	03/18/24 15:54	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.505	U	0.278	0.278	1.00	0.505	pCi/L	02/23/24 09:49	03/13/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					02/23/24 09:49	03/13/24 12:08	1
Y Carrier	87.9		30 - 110					02/23/24 09:49	03/13/24 12:08	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.505	U	0.285	0.285	5.00	0.505	pCi/L		03/22/24 14:56	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-246400-6**

Date Collected: 02/20/24 00:00

Matrix: Water

Date Received: 02/21/24 09:50

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.210		0.0973	0.0991	1.00	0.0992	pCi/L	02/23/24 09:44	03/18/24 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					02/23/24 09:44	03/18/24 15:54	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.597	U	0.334	0.334	1.00	0.597	pCi/L	02/23/24 09:49	03/13/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					02/23/24 09:49	03/13/24 12:08	1
Y Carrier	79.3		30 - 110					02/23/24 09:49	03/13/24 12:08	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.597	U	0.348	0.348	5.00	0.597	pCi/L		03/22/24 14:56	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

**Client Sample ID: MW-13**  
**Date Collected: 02/20/24 08:55**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-7**  
**Matrix: Water**

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.148	U	0.0912	0.0915	1.00	0.148	pCi/L	02/23/24 09:44	03/18/24 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		30 - 110					02/23/24 09:44	03/18/24 15:54	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.699	U	0.453	0.455	1.00	0.699	pCi/L	02/23/24 09:49	03/13/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		30 - 110					02/23/24 09:49	03/13/24 12:09	1
Y Carrier	78.1		30 - 110					02/23/24 09:49	03/13/24 12:09	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.699	U	0.462	0.464	5.00	0.699	pCi/L		03/22/24 14:56	1



# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

## Glossary

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

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

## Rad

### Prep Batch: 649207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	PrecSep-21	
500-246400-2	MW-21	Total/NA	Water	PrecSep-21	
500-246400-3	MW-17	Total/NA	Water	PrecSep-21	
MB 160-649207/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649207/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-246400-3 DU	MW-17	Total/NA	Water	PrecSep-21	

### Prep Batch: 649208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-1	MW-20	Total/NA	Water	PrecSep_0	
500-246400-2	MW-21	Total/NA	Water	PrecSep_0	
500-246400-3	MW-17	Total/NA	Water	PrecSep_0	
MB 160-649208/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649208/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-246400-3 DU	MW-17	Total/NA	Water	PrecSep_0	

### Prep Batch: 649386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-4	MW-15	Total/NA	Water	PrecSep-21	
500-246400-5	MW-14	Total/NA	Water	PrecSep-21	
500-246400-6	Duplicate	Total/NA	Water	PrecSep-21	
500-246400-7	MW-13	Total/NA	Water	PrecSep-21	
MB 160-649386/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649386/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 649387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246400-4	MW-15	Total/NA	Water	PrecSep_0	
500-246400-5	MW-14	Total/NA	Water	PrecSep_0	
500-246400-6	Duplicate	Total/NA	Water	PrecSep_0	
500-246400-7	MW-13	Total/NA	Water	PrecSep_0	
MB 160-649387/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649387/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

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

**Lab Sample ID: MB 160-649207/1-A**  
**Matrix: Water**  
**Analysis Batch: 652691**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 649207**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.0901	U	0.0566	0.0568	1.00	0.0901	pCi/L	02/22/24 10:00	03/15/24 07:04	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		30 - 110					02/22/24 10:00	03/15/24 07:04	1

**Lab Sample ID: LCS 160-649207/2-A**  
**Matrix: Water**  
**Analysis Batch: 652691**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 649207**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.02		1.05	1.00	0.0801	pCi/L	88	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield 104	Qualifier	30 - 110						

**Lab Sample ID: 500-246400-3 DU**  
**Matrix: Water**  
**Analysis Batch: 652702**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 649207**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	<0.117	U	<0.128	U	0.0639	1.00	0.128	pCi/L	0.09	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield 97.0	Qualifier	30 - 110							

**Lab Sample ID: MB 160-649386/1-A**  
**Matrix: Water**  
**Analysis Batch: 652964**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 649386**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.115	U	0.0578	0.0578	1.00	0.115	pCi/L	02/23/24 09:44	03/18/24 14:36	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					02/23/24 09:44	03/18/24 14:36	1

**Lab Sample ID: LCS 160-649386/2-A**  
**Matrix: Water**  
**Analysis Batch: 653503**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 649386**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.33		1.07	1.00	0.115	pCi/L	91	75 - 125

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

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

**Lab Sample ID: LCS 160-649386/2-A**  
**Matrix: Water**  
**Analysis Batch: 653503**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 649386**

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	103		30 - 110

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

**Lab Sample ID: MB 160-649208/1-A**  
**Matrix: Water**  
**Analysis Batch: 651636**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 649208**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.426	U	0.237	0.237	1.00	0.426	pCi/L	02/22/24 10:04	03/08/24 11:54	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		30 - 110					02/22/24 10:04	03/08/24 11:54	1
Y Carrier	83.7		30 - 110					02/22/24 10:04	03/08/24 11:54	1

**Lab Sample ID: LCS 160-649208/2-A**  
**Matrix: Water**  
**Analysis Batch: 651636**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 649208**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.14	9.187		1.23	1.00	0.461	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	104		30 - 110						
Y Carrier	81.1		30 - 110						

**Lab Sample ID: 500-246400-3 DU**  
**Matrix: Water**  
**Analysis Batch: 651635**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 649208**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	<0.584	U	<0.569	U	0.354	1.00	0.569	pCi/L	0.18	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	97.0		30 - 110							
Y Carrier	81.1		30 - 110							

**Lab Sample ID: MB 160-649387/1-A**  
**Matrix: Water**  
**Analysis Batch: 652361**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 649387**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.550	U	0.285	0.285	1.00	0.550	pCi/L	02/23/24 09:49	03/13/24 12:48	1

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

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

**Lab Sample ID: MB 160-649387/1-A**  
**Matrix: Water**  
**Analysis Batch: 652361**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 649387**

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	88.6		30 - 110
Y Carrier	85.6		30 - 110

Prepared	Analyzed	Dil Fac
02/23/24 09:49	03/13/24 12:48	1
02/23/24 09:49	03/13/24 12:48	1

**Lab Sample ID: LCS 160-649387/2-A**  
**Matrix: Water**  
**Analysis Batch: 652361**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 649387**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	9.13	8.618		1.17	1.00	0.454	pCi/L	94	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	105		30 - 110
Y Carrier	90.5		30 - 110


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

**Chain of Custody Record**

**MKE 232**

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<b>Client Information</b>		Sampler: <b>Jack Mysler</b>		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-120484-46460 1																																																																																	
Client Contact: Mitchel Dolan		Phone: <b>762-622-1143</b>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: <b>IL</b>		Page: Page 1 of 1 <b>500-246400</b>																																																																																	
Company: KPRG and Associates, Inc.				<b>Analysis Requested</b>						Job #: <b>17313.1</b>																																																																															
Address: 414 Plaza Drive Suite 106		Due Date Requested: <b>Standard</b>		 500-246400 COC						<b>Preservation Codes:</b> A - HCL                    M - Hexane B - NaOH                N - None C - Zn Acetate        O - AsNaO2 D - Nitric Acid        P - Na2O4S E - NaHSO4            Q - Na2SO3 F - MeOH                R - Na2S2O3 G - Amchlor            S - H2SO4 H - Ascorbic Acid    T - TSP Dodecahydrate I - Ice                    U - Acetone J - DI Water            V - MCAA K - EDTA                W - pH 4-5 L - EDA                 Y - Trizma Z - other (specify)																																																																															
City: Westmont		TAT Requested (days): <b>Standard</b>																																																																																							
State, Zip: IL, 60559		Compliance Project.    Δ Yes   Δ No																																																																																							
Phone: 262-781-0475(Tel)		PO #: 4502125100																																																																																							
Email: mitcheld@kprginc.com		WO #:																																																																																							
Project Name: Powerton CCR MCB		Project #: 50018578																																																																																							
Site: <b>Illinois</b>		SSOW#:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">Field Filtered Sample (Yes or No)</th> <th style="width:10%;">Pretreated (MS/MSD) (Yes or No)</th> <th style="width:10%;">2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E</th> <th style="width:10%;">903.0 - Radium 226</th> <th style="width:10%;">904.0 - Radium 228</th> <th style="width:10%;">Ra226Ra228_GFFC - Rad Combined</th> <th style="width:10%;">6010C, 6020A, 7470A</th> <th style="width:10%;">Total Number of Containers</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Pretreated (MS/MSD) (Yes or No)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFFC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers																																																																								
Field Filtered Sample (Yes or No)	Pretreated (MS/MSD) (Yes or No)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226							904.0 - Radium 228	Ra226Ra228_GFFC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers																																																																												
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oll, BT=Tissue, A=Air)		<b>Special Instructions/Note:</b>																																																																															
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<del>MW-14</del>								Water																																																																																	
<del>MW-12</del>								Water																																																																																	
1 MW-20		2/19/24		1154		G		Water		500-246400 COC																																																																															
2 MW-21		2/19/24		1056		G		Water																																																																																	
<del>Duplicate</del>								Water																																																																																	
<del>MW-18</del>								Water																																																																																	
3 MW-17		2/19/24		1500				Water		Added by EETA 2/20/24 GH																																																																															
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>																																																																																			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																			
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements																																																																																			
Empty Kit Relinquished by			Date			Time			Method of Shipment																																																																																
Relinquished by: <i>Jack Mysler</i>			Date/Time: 2/19/24 1700			Company: KPRG			Received by: <i>FedEx</i>																																																																																
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Relinquished by:			Date/Time:			Company:			Date/Time: 2/20/24 1000																																																																																
Relinquished by:			Date/Time:			Company:			Date/Time:																																																																																
Custody Seals Intact Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <b>1.7+22, 1.1+3.6</b>																																																																																					

<b>Client Information</b>		Sampler: <u>Jack Misner</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s):		COC No: <u>500-120484-46460 1</u>				
Client Contact: <u>Michael Dolan Kaelyn Sperle</u>		Phone: <u>262-622-1143</u>		E-Mail: <u>Diana.Mockler@et.eurofins.com</u>		State of Origin: <u>IL</u>		Page: <u>Page 1 of 1</u>				
Company: <u>KPRG and Associates, Inc.</u>				Analysis Requested		Job #: <u>500-246400</u>		Preservation Codes:				
Address: <u>414 Plaza Drive Suite 106</u>		Due Date Requested: <u>Standard</u>		 500-246400 COC		Total Number of Containers:		A - HCL                      M - Hexane B - NaOH                  N - None C - Zn Acetate            O - AsNaO2 D - Nitric Acid            P - Na2O4S E - NaHSO4                Q - Na2SO3 F - MeOH                   R - Na2S2O3 G - Amchlor               S - H2SO4 H - Ascorbic Acid        T - TSP Dodecahydrate I - Ice                        U - Acetone J - DI Water               V - MCAA K - EDTA                   W - pH 4-5 L - EDA                     Y - Trizma Z - other (specify)				
City: <u>Westmont</u>		TAT Requested (days): <u>Standard</u>										
State, Zip: <u>IL, 60659</u>		Compliance Project. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										
Phone: <u>262-781-0475(Tel)</u>		PO #: <u>4502125100</u>										
Email: <u>mtcheld@kprginc.com</u>		WO#:										
Project Name: <u>Powerton CCR MCB</u>		Project #: <u>50018578</u>		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:				
Site: <u>Illinois</u>		SSOW#:		Performs MS/MS (Yes or No)		Total Number of Containers						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	N	D	D	B	B		
				Preservation Code								
4 MW-15		2/20/24	1121	G	Water	N	X	X	X	X		
5 2 MW-14		2/20/24	1016	G	Water	N	X	X	X	X		
<del>MW-17</del>					Water							
<del>MW-20</del>					Water							
<del>MW-21</del>					Water							
6 3 Duplicate		2/20/24	-	G	Water	N	X	X	X	X		
7 4 MW-13		2/20/24	0855	G	Water	N	X	X	X	X		
Trip Blank					Water							
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date		Time		Method of Shipment:						
Relinquished by: <u>Jack Misner</u>		Date/Time: <u>2/20/24 1600</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>2/20/24 1600</u>		Company: <u>FedEx</u>		
Relinquished by:		Date/Time:		Company:		Received by: <u>Sturhorne Hemond</u>		Date/Time: <u>2/21/24 0950</u>		Company: <u>EEVA</u>		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>-0.5 -&gt; 0.0</u>								
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

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ORIGIN ID:PIAA (262) 622-1143  
JACK MISNER  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 19FEB24  
ACTWGT: 59.70 LB  
CAD: 6994780/SSFE2500  
DIMS: 24x13x14 IN  
BILL THIRD PARTY

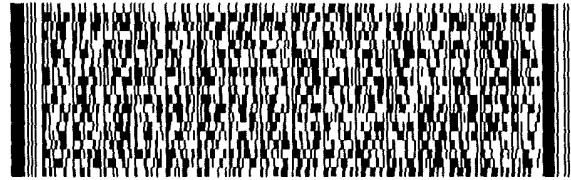
Part # 15629F3M3R1R11053EXP 10/24

TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666 REF: DEPT:  
IRV: PO:



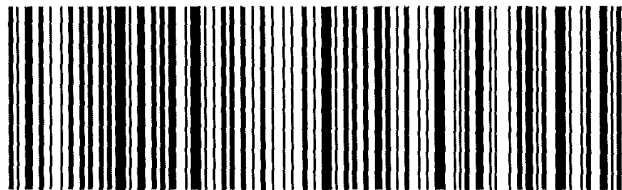
FedEx Express  
REL# 3785346

1 of 2

TRK# 2711 6218 6854  
0201  
## MASTER ##

XP JOTA

TUE - 20 FEB 10:30A  
PRIORITY OVERNIGHT  
AHS  
60484  
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143  
JACK MISNER  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 19FEB24  
ACTWGT: 59.70 LB  
CAD: 6994780/SSFE2500  
DIMS: 24x13x14 IN  
BILL THIRD PARTY

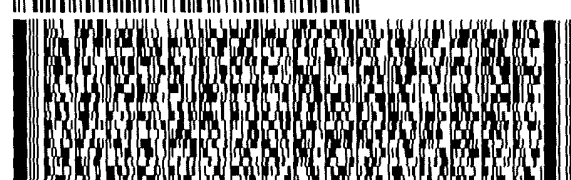
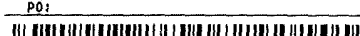
Part # 15629F3M3R1R11053EXP 10/24

TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666 REF: DEPT:  
IRV: PO:



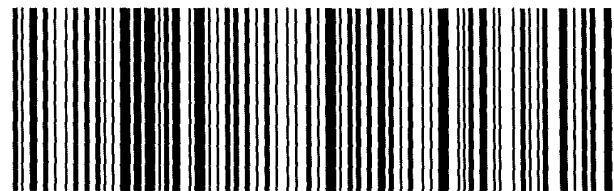
FedEx Express  
REL# 3785346

2 of 2

MPS# 2711 6218 6865  
0263  
Mstr# 2711 6218 6854

XP JOTA

TUE - 20 FEB 10:30A  
PRIORITY OVERNIGHT  
AHS  
60484  
IL-US ORD



500-246400 Waybi

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ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 20FEB24  
ACTWGT: 62.00 LB  
CAD: 6994779/SSFE2500  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 1562972499 / AFD159 998P 10/24

TO **ATTN SAMPLE RECEIVING**  
**EUROFINS**  
**2417 BOND ST**



**UNIVERSITY PARK IL 60484**

(000) 000-0000

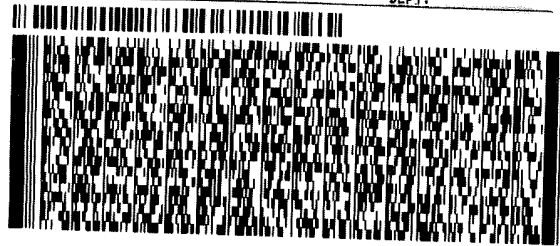
REF:

500-246400 Waybi

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**FedEx**  
Express



3 of 3

MPS# 2712 1216 5030

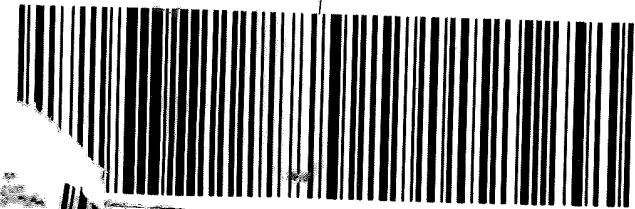
Mstr# 2712 1216 5019

.0201

**WED - 21 FEB 10:30A**  
**PRIORITY OVERNIGHT**

**XP JOTA**

**60484**  
**IL-US ORD**



## Chain of Custody Record



**Client Information (Sub Contract Lab)**  
 Client Contact: Mockler, Diana J  
 Shipping/Receiving: Diana.Mockler@eurofinsus.com  
 Company: TestAmerica Laboratories, Inc.  
 Address: 13715 Rider Trail North,  
 City: Earth City  
 State, Zip: MO, 63045  
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)  
 Email:  
 Project Name: Powerton CCR MCB (RAD)  
 Site:  
 Lab PM: Mockler, Diana J  
 E-Mail: Diana.Mockler@eurofinsus.com  
 Accreditations Required (See note): NELAP - Illinois

**Analysis Requested**

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W-water, S-solid, O-wastewater, BT-tissue, A-air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MSM/SD (Yes or No)	903.0/PreSep. 21 Standard Target List	904.0/PreSep. 0 Standard Target List	Total Number of containers	Special Instructions/Note:
MW-20 (500-246400-1)	2/19/24	11:54 Central		Water		X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-21 (500-246400-2)	2/19/24	10:56 Central		Water		X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-17 (500-246400-3)	2/19/24	15:00 Central		Water		X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify)  
 Primary Deliverable Rank: 2  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For Months  
 Special Instructions/QC Requirements:  
 Empty Kit Relinquished by:  
 Date/Time: 2/20/24 1000  
 Relinquished by: Stephanie Hernandez  
 Company: EEIA  
 Received by: Sara Waddington  
 Date/Time: FEB 21 2024 0840  
 Company: EMTS  
 Relinquished by:  
 Date/Time:  
 Company:  
 Relinquished by:  
 Date/Time:  
 Company:  
 Custody Seals Intact:  
 Δ Yes Δ No  
 Cooler Temperature(s) °C and Other Remarks:



Ver: 06/08/2021

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM Mockler, Diana J		Carrier Tracking No(s): 500-184991.1							
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com		Page Page 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job # 500-246400-2							
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 3/12/2024 TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - ASNGO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
Project Name: Powerton CCR MCB (RAD) Site:		Project #: 50018578 SSOW#:		Analysis Requested							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=washbottle, BT=Tissue, AS=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	R226Ra228 GFFC	Total Number of Containers	Special Instructions/Note:
MW-15 (500-246400-4)	2/20/24	11:21 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-14 (500-246400-5)	2/20/24	10:16 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-246400-6)	2/20/24	Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-13 (500-246400-7)	2/20/24	08:55 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

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

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

Special Instructions/QC Requirements:  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Richie Scott* Date: 2/24/24  
 Relinquished by: \_\_\_\_\_ Date: 16/15  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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

Received by: **Richard Thomley** Date/Time: FEB 22 2024 09:15  
 Company: ETH STL  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_  
 Date: \_\_\_\_\_



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246400-2

**Login Number: 246400**

**List Number: 1**

**Creator: Hernandez, Stephanie**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,3.6,0.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246400-2

**Login Number: 246400**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 02/21/24 01:25 PM**

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



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246400-2

**Login Number: 246400**

**List Number: 3**

**Creator: Thornley, Richard W**

**List Source: Eurofins St. Louis**

**List Creation: 02/22/24 01:34 PM**

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

Job ID: 500-246400-2

**Client Sample ID: MW-20**  
**Date Collected: 02/19/24 11:54**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649207	KAC	EET SL	02/22/24 10:00
Total/NA	Analysis	903.0		1	652702	SCB	EET SL	03/15/24 07:15
Total/NA	Prep	PrecSep_0			649208	KAC	EET SL	02/22/24 10:04
Total/NA	Analysis	904.0		1	651635	FLC	EET SL	03/08/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	652695	SCB	EET SL	03/15/24 13:35

**Client Sample ID: MW-21**  
**Date Collected: 02/19/24 10:56**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649207	KAC	EET SL	02/22/24 10:00
Total/NA	Analysis	903.0		1	652702	SCB	EET SL	03/15/24 07:15
Total/NA	Prep	PrecSep_0			649208	KAC	EET SL	02/22/24 10:04
Total/NA	Analysis	904.0		1	651635	FLC	EET SL	03/08/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	652695	SCB	EET SL	03/18/24 12:28

**Client Sample ID: MW-17**  
**Date Collected: 02/19/24 15:00**  
**Date Received: 02/20/24 10:00**

**Lab Sample ID: 500-246400-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649207	KAC	EET SL	02/22/24 10:00
Total/NA	Analysis	903.0		1	652702	SCB	EET SL	03/15/24 07:15
Total/NA	Prep	PrecSep_0			649208	KAC	EET SL	02/22/24 10:04
Total/NA	Analysis	904.0		1	651635	FLC	EET SL	03/08/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	652695	SCB	EET SL	03/18/24 12:28

**Client Sample ID: MW-15**  
**Date Collected: 02/20/24 11:21**  
**Date Received: 02/21/24 09:50**

**Lab Sample ID: 500-246400-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652815	SCB	EET SL	03/18/24 15:53
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652361	FLC	EET SL	03/13/24 12:08
Total/NA	Analysis	Ra226_Ra228		1	653605	CAH	EET SL	03/22/24 14:56



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

## Client Sample ID: MW-14

Date Collected: 02/20/24 10:16

Date Received: 02/21/24 09:50

Lab Sample ID: 500-246400-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652815	SCB	EET SL	03/18/24 15:54
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652361	FLC	EET SL	03/13/24 12:08
Total/NA	Analysis	Ra226_Ra228		1	653605	CAH	EET SL	03/22/24 14:56

## Client Sample ID: Duplicate

Date Collected: 02/20/24 00:00

Date Received: 02/21/24 09:50

Lab Sample ID: 500-246400-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652815	SCB	EET SL	03/18/24 15:54
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652361	FLC	EET SL	03/13/24 12:08
Total/NA	Analysis	Ra226_Ra228		1	653605	CAH	EET SL	03/22/24 14:56

## Client Sample ID: MW-13

Date Collected: 02/20/24 08:55

Date Received: 02/21/24 09:50

Lab Sample ID: 500-246400-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652815	SCB	EET SL	03/18/24 15:54
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652361	FLC	EET SL	03/13/24 12:09
Total/NA	Analysis	Ra226_Ra228		1	653605	CAH	EET SL	03/22/24 14:56

### Laboratory References:

EET 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: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

## Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

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

# Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton CCR MCB (RAD)

Job ID: 500-246400-2

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-246400-1	MW-20	97.0
500-246400-2	MW-21	83.2
500-246400-3	MW-17	98.2
500-246400-3 DU	MW-17	97.0
500-246400-4	MW-15	93.1
500-246400-5	MW-14	94.4
500-246400-6	Duplicate	92.1
500-246400-7	MW-13	94.2
LCS 160-649207/2-A	Lab Control Sample	104
LCS 160-649386/2-A	Lab Control Sample	103
MB 160-649207/1-A	Method Blank	106
MB 160-649386/1-A	Method Blank	88.6

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-246400-1	MW-20	97.0	74.0
500-246400-2	MW-21	83.2	81.1
500-246400-3	MW-17	98.2	82.6
500-246400-3 DU	MW-17	97.0	81.1
500-246400-4	MW-15	93.1	84.5
500-246400-5	MW-14	94.4	87.9
500-246400-6	Duplicate	92.1	79.3
500-246400-7	MW-13	94.2	78.1
LCS 160-649208/2-A	Lab Control Sample	104	81.1
LCS 160-649387/2-A	Lab Control Sample	105	90.5
MB 160-649208/1-A	Method Blank	106	83.7
MB 160-649387/1-A	Method Blank	88.6	85.6

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	12313.1 - NRG - Powerton Station		DATE	2/20/24
Sample Name	MW-13	Start Time	0832	
Condition of Well	Good			
Water Level	27.31	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Black/injectate?	
Volume Removed	7qt	WL at Sample Time	27.45	
Method of Sample	Low flow bladder	Sample Characteristics	Clear/Black Specks	
Sample Analysis	CCA, MCB COR	Sample Time	0855	
Water Quality Meter				

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0836	27.31	8.07	14.9	1.791	9.19	-43.6	31.69
0839	-	8.13	15.6	1.890	5.38	-197.6	35.36
0842	-	8.14	15.6	1.889	4.63	-211.8	20.77
0845	-	8.15	15.6	1.901	3.66	-227.5	13.77
0848	-	8.16	15.7	1.893	3.10	-234.7	9.22
0851	-	8.15	15.8	1.903	2.77	-237.5	9.11

SAMPLING NOTES:

MCB Duplicate

Sampler Name and Company:

KPRG and Associates



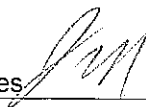
PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/20/24
Sample Name	MW-14	Start Time	0957	
Condition of Well	Good			
Water Level	24.74	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	5 qt	WL at Sample Time	25.92	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, MCB CER	Sample Time	1016	
Water Quality Meter	YSI Pro MSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1000	24.74	7.40	14.1	2.851	9.63	79.9	9.62
1003	-	7.13	14.6	2.436	6.48	76.3	14.22
1006	-	7.12	14.7	2.346	5.68	73.3	9.55
1009	-	7.12	14.8	2.330	4.69	69.4	7.70
1012	-	7.12	14.7	2.332	4.22	67.3	6.79

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	12313.1 - NRG - Powerton Station		DATE	2/20/24
Sample Name	MW-15	Start Time	1103	
Condition of Well	Good			
Water Level	24.50	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Orange	
Volume Removed	5qt	WL at Sample Time	24.55	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy	
Sample Analysis	CCA, MCB, ABB/ASB	Sample Time	1121	
Water Quality Meter	YSI Pro M55			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1105	24.50	7.31	15.2	1.967	9.06	97.1	182.10
1108	-	6.97	15.2	2.150	7.05	-68.3	340.88
1111	-	6.97	15.5	2.046	4.70	-77.5	88.91
1114	-	6.97	15.5	1.977	3.79	-76.6	43.77
1117	-	6.94	15.5	1.921	3.17	-72.5	23.85

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/19/24
Sample Name	MW-17	Start Time	1437	
Condition of Well	Good			
Water Level	19.49	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Slightly Cloudy/Gray	
Volume Removed	5.5 qt	WL at Sample Time	20.73	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	MCB, ABB/ASB CR	Sample Time	1500	
Water Quality Meter				

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1441	19.49	7.88	14.2	1.682	9.69	32.5	22.97
1444	-	7.50	15.0	2.008	6.28	15.2	49.53
1447	-	7.46	15.0	1.972	4.58	4.2	19.56
1450	-	7.45	15.1	1.959	3.63	-2.3	8.10
1453	-	7.43	15.2	1.947	3.01	-6.0	5.68
1456	-	7.41	15.2	1.959	2.73	-6.3	6.01

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/18/24
Sample Name	MW-20	Start Time	1138	
Condition of Well	Good			
Water Level	25.72	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	1 qt	WL at Sample Time	25.91	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR MCB	Sample Time	1154	
Water Quality Meter	YSI Pro 155			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1141	25.72	6.89	13.6	2.821	8.67	-29.5	45.56
1144	-	6.86	13.8	2.851	6.37	-113.5	18.56
1147	-	6.90	13.6	2.862	5.26	-128.9	12.62
1150	-	6.91	13.6	2.802	4.46	-136.0	10.54

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/10/24
Sample Name	MW-21	Start Time	1040	
Condition of Well	Good			
Water Level	25.45	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	1.5 qt	WL at Sample Time	25.91	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR MCB	Sample Time	1056	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1043	25.45	6.38	13.1	1.325	8.99	-80.8	58.09
1046	-	6.51	13.7	1.359	6.34	-133.8	90.70
1049	-	6.57	13.9	1.331	5.00	-148.1	108.83
1052	-	6.59	13.9	1.278	6.59	-156.6	143.02

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

