

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Ash By-pass Basin (IEPA ID No. W1798010008-04)
 Ash Surge Basin (IEPA ID No. W1798010008-01)

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

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

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash Bypass Basin Ash Surge Basin.

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
	6/7/2022	3.63
	8/30/2022	4.73
	11/15/2022	3.90
	2/22/2023	4.54
	5/17/2023	4.33
	8/29/2023	4.40
11/7/2023	2.93	
2/21/2024	17.88	
MW-09	2/24/2021	16.9
	4/9/2021	5.73
	5/13/2021	0.49
	6/2/2021	2.37
	6/29/2021	4.53
	7/19/2021	6.12
	8/25/2021	16.65
	9/30/2021	3.2
	12/1/2021	0.0
	2/10/2022	0.0
	6/8/2022	6.93
	8/31/2022	4.95
	11/15/2022	1.82
	2/23/2023	3.22
	5/16/2023	15.52
	8/30/2023	1.64
11/8/2023	3.10	
2/21/2024	6.04	
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
	2/7/2022	3.54
	6/6/2022	2.35
	8/30/2022	3.56
	11/16/2022	2.02
	2/21/2023	2.13
	5/18/2023	2.25
	8/29/2023	1.28
11/8/2023	2.55	
2/18/2024	4.20	
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
	2/10/2022	14.98
	6/8/2022	8.65
	8/30/2022	9.75
	11/15/2022	12.65
	2/22/2023	4.12
	5/17/2023	17.75
	8/29/2023	8.43
11/7/2023	4.77	

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash Bypass Basin Ash Surge Basin.

Well	Date	Turbidity (NTU)
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
	2/10/2022	9.29
	6/8/2022	77.21
	8/31/2022	66.8
	11/15/2022	36.1
	2/23/2023	14.07
	5/16/2023	10.18
8/30/2023	44.6	
11/8/2023	19.15	
2/21/2024	53.00	
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
	2/10/2022	7.08
	6/8/2022	57.5
	8/31/2022	703.1
	11/15/2022	335.9
	2/23/2023	18.01
	5/16/2023	21.37
8/30/2023	104.06	
11/8/2023	33.77	
2/20/2024	10.04	
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
	2/9/2022	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
	11/29/2021	8.86
	2/7/2022	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	
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88
	2/8/2022	39.3
	6/6/2022	2.73
	8/30/2022	5.66
	11/16/2022	28.47
	2/21/2023	17.88
	5/18/2023	3.04
8/29/2023	10.04	
11/6/2023	6.02	
2/19/2024	6.89	

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

Attn: Richard Gnat
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Brookfield, Wisconsin 53005

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JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-246398-1

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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Case Narrative

Client: KPRG and Associates, Inc.
Project: Powerton CCR ABB/ASB

Job ID: 500-246398-1

Job ID: 500-246398-1

Eurofins Chicago

Job Narrative 500-246398-1

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 4 coolers at receipt time were 2.1° C, 2.2° C, 2.4° C and 3.6° C.

Metals

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

General Chemistry

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-755087 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Chicago



Method Summary

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

Job ID: 500-246398-1

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 ABB/ASB

Job ID: 500-246398-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246398-1	MW-17	Water	02/19/24 15:00	02/20/24 10:00
500-246398-2	MW-18	Water	02/19/24 04:12	02/20/24 10:00
500-246398-3	MW-19	Water	02/19/24 13:02	02/20/24 10:00
500-246398-4	Duplicate	Water	02/19/24 00:00	02/20/24 10:00
500-246398-5	MW-01	Water	02/21/24 09:07	02/22/24 09:40
500-246398-6	MW-08	Water	02/21/24 12:45	02/22/24 09:40
500-246398-7	MW-09	Water	02/21/24 11:29	02/22/24 09:40
500-246398-8	MW-11	Water	02/21/24 10:17	02/22/24 09:40
500-246398-9	MW-12	Water	02/20/24 12:42	02/22/24 09:40
500-246398-10	MW-15	Water	02/20/24 11:21	02/22/24 09:40

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

Client Sample Results

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

Job ID: 500-246398-1

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

Lab Sample ID: 500-246398-1
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 17:29	1
Arsenic	0.0023		0.0010		mg/L		03/07/24 17:07	03/18/24 12:20	1
Barium	0.030		0.0025		mg/L		03/07/24 17:07	03/15/24 17:29	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:20	1
Boron	1.2		0.050		mg/L		03/07/24 17:07	03/18/24 12:20	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:29	1
Calcium	150		0.20		mg/L		03/07/24 17:07	03/15/24 17:29	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:29	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:29	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:29	1
Lithium	0.015		0.010		mg/L		03/07/24 17:07	03/15/24 17:29	1
Molybdenum	0.045		0.0050		mg/L		03/07/24 17:07	03/15/24 17:29	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 17:29	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		10		mg/L			02/23/24 06:45	1
Chloride (SM 4500 Cl- E)	180		10		mg/L			02/21/24 17:00	5
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			03/07/24 19:35	1
Sulfate (SM 4500 SO4 E)	610		100		mg/L			02/22/24 14:07	20

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-18
Date Collected: 02/19/24 04:12
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-2
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 17:32	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:24	1
Barium	0.12		0.0025		mg/L		03/07/24 17:07	03/15/24 17:32	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:24	1
Boron	0.74		0.050		mg/L		03/07/24 17:07	03/18/24 12:24	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:32	1
Calcium	130		0.20		mg/L		03/07/24 17:07	03/15/24 17:32	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:32	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:32	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:32	1
Lithium	0.013		0.010		mg/L		03/07/24 17:07	03/15/24 17:32	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:32	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 17:32	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			02/23/24 06:52	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			02/21/24 16:59	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			03/15/24 12:18	1
Sulfate (SM 4500 SO4 E)	60		10		mg/L			02/22/24 14:00	2

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-19
Date Collected: 02/19/24 13:02
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 17:36	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:27	1
Barium	0.067		0.0025		mg/L		03/07/24 17:07	03/15/24 17:36	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:27	1
Boron	3.8		0.050		mg/L		03/07/24 17:07	03/18/24 12:27	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:36	1
Calcium	73		0.20		mg/L		03/07/24 17:07	03/15/24 17:36	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:36	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:36	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:36	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:07	03/15/24 17:36	1
Molybdenum	0.026		0.0050		mg/L		03/07/24 17:07	03/15/24 17:36	1
Selenium	0.0033		0.0025		mg/L		03/07/24 17:07	03/15/24 17:36	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	600		10		mg/L			02/23/24 06:58	1
Chloride (SM 4500 Cl- E)	36		2.0		mg/L			02/21/24 16:38	1
Fluoride (SM 4500 F C)	0.19		0.10		mg/L			03/15/24 12:23	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/22/24 14:07	5

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: Duplicate

Lab Sample ID: 500-246398-4

Date Collected: 02/19/24 00:00

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 17:39	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:31	1
Barium	0.065		0.0025		mg/L		03/07/24 17:07	03/15/24 17:39	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:31	1
Boron	3.9		0.050		mg/L		03/07/24 17:07	03/18/24 12:31	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:39	1
Calcium	74		0.20		mg/L		03/07/24 17:07	03/15/24 17:39	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:39	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:39	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:39	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:07	03/15/24 17:39	1
Molybdenum	0.030		0.0050		mg/L		03/07/24 17:07	03/15/24 17:39	1
Selenium	0.0042		0.0025		mg/L		03/07/24 17:07	03/15/24 17:39	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:39	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	620		10		mg/L			02/23/24 07:00	1
Chloride (SM 4500 Cl- E)	35		2.0		mg/L			02/21/24 16:39	1
Fluoride (SM 4500 F C)	0.18		0.10		mg/L			03/15/24 12:28	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/22/24 14:07	5

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-01
Date Collected: 02/21/24 09:07
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-5
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 17:07	03/15/24 17:43	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:35	1
Barium	0.089		0.0025		mg/L		03/07/24 17:07	03/15/24 17:43	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:35	1
Boron	1.3		0.050		mg/L		03/07/24 17:07	03/18/24 12:35	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:43	1
Calcium	120		0.20		mg/L		03/07/24 17:07	03/15/24 17:43	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:43	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:43	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:43	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:07	03/15/24 17:43	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:43	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 17:43	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/23/24 07:03	1
Chloride (SM 4500 Cl- E)	47		2.0		mg/L			02/25/24 13:31	1
Fluoride (SM 4500 F C)	0.10		0.10		mg/L			03/15/24 12:33	1
Sulfate (SM 4500 SO4 E)	79		10		mg/L			02/22/24 13:58	2

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-08

Lab Sample ID: 500-246398-6

Date Collected: 02/21/24 12:45

Matrix: Water

Date Received: 02/22/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 17:46	1
Arsenic	0.0029		0.0010		mg/L		03/07/24 17:07	03/18/24 12:39	1
Barium	0.12		0.0025		mg/L		03/07/24 17:07	03/15/24 17:46	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:39	1
Boron	0.74		0.050		mg/L		03/07/24 17:07	03/18/24 12:39	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:46	1
Calcium	120		0.20		mg/L		03/07/24 17:07	03/15/24 17:46	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:46	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:46	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:46	1
Lithium	0.025		0.010		mg/L		03/07/24 17:07	03/15/24 17:46	1
Molybdenum	0.0086		0.0050		mg/L		03/07/24 17:07	03/15/24 17:46	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 17:46	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10		mg/L			02/23/24 07:05	1
Chloride (SM 4500 Cl- E)	69		4.0		mg/L			02/25/24 13:30	2
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			03/15/24 12:38	1
Sulfate (SM 4500 SO4 E)	89		10		mg/L			02/27/24 16:02	2

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-09

Lab Sample ID: 500-246398-7

Date Collected: 02/21/24 11:29

Matrix: Water

Date Received: 02/22/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 17:50	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:50	1
Barium	0.035		0.0025		mg/L		03/07/24 17:07	03/15/24 17:50	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:50	1
Boron	3.5		0.050		mg/L		03/07/24 17:07	03/18/24 12:50	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:50	1
Calcium	73		0.20		mg/L		03/07/24 17:07	03/15/24 17:50	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:50	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:50	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:50	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:07	03/15/24 17:50	1
Molybdenum	0.031		0.0050		mg/L		03/07/24 17:07	03/15/24 17:50	1
Selenium	0.0060		0.0025		mg/L		03/07/24 17:07	03/15/24 17:50	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			02/23/24 07:08	1
Chloride (SM 4500 Cl- E)	31		2.0		mg/L			02/25/24 13:30	1
Fluoride (SM 4500 F C)	0.17		0.10		mg/L			03/15/24 12:43	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/27/24 16:20	5

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-11

Lab Sample ID: 500-246398-8

Date Collected: 02/21/24 10:17

Matrix: Water

Date Received: 02/22/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 17:53	1
Arsenic	0.020		0.0010		mg/L		03/07/24 17:07	03/18/24 12:54	1
Barium	0.30		0.0025		mg/L		03/07/24 17:07	03/15/24 17:53	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:54	1
Boron	1.8		0.050		mg/L		03/07/24 17:07	03/18/24 12:54	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:53	1
Calcium	140		0.20		mg/L		03/07/24 17:07	03/15/24 17:53	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:53	1
Cobalt	0.0021		0.0010		mg/L		03/07/24 17:07	03/15/24 17:53	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:53	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:07	03/15/24 17:53	1
Molybdenum	0.011		0.0050		mg/L		03/07/24 17:07	03/15/24 17:53	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 17:53	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	860		10		mg/L			02/23/24 07:11	1
Chloride (SM 4500 Cl- E)	69		4.0		mg/L			02/25/24 13:30	2
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			03/15/24 13:09	1
Sulfate (SM 4500 SO4 E)	73		10		mg/L			02/27/24 16:00	2

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-12
Date Collected: 02/20/24 12:42
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-9
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 17:57	1
Arsenic	0.0032		0.0010		mg/L		03/07/24 17:07	03/18/24 12:57	1
Barium	0.051		0.0025		mg/L		03/07/24 17:07	03/15/24 17:57	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 12:57	1
Boron	0.33		0.050		mg/L		03/07/24 17:07	03/18/24 12:57	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:57	1
Calcium	110		0.20		mg/L		03/07/24 17:07	03/15/24 17:57	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 17:57	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:07	03/15/24 17:57	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 17:57	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:07	03/15/24 17:57	1
Molybdenum	0.012		0.0050		mg/L		03/07/24 17:07	03/15/24 17:57	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:07	03/15/24 17:57	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 17:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			02/23/24 07:13	1
Chloride (SM 4500 Cl- E)	150		10		mg/L			02/25/24 13:30	5
Fluoride (SM 4500 F C)	0.37		0.10		mg/L			03/15/24 13:14	1
Sulfate (SM 4500 SO4 E)	360		50		mg/L			02/27/24 16:19	10

Client Sample Results

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

Job ID: 500-246398-1

Client Sample ID: MW-15

Lab Sample ID: 500-246398-10

Date Collected: 02/20/24 11:21

Matrix: Water

Date Received: 02/22/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:07	03/15/24 18:04	1
Arsenic	0.0047		0.0010		mg/L		03/07/24 17:07	03/18/24 13:02	1
Barium	0.050		0.0025		mg/L		03/07/24 17:07	03/15/24 18:04	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:07	03/18/24 13:02	1
Boron	1.3		0.050		mg/L		03/07/24 17:07	03/18/24 13:02	1
Cadmium	0.00051		0.00050		mg/L		03/07/24 17:07	03/15/24 18:04	1
Calcium	190		0.20		mg/L		03/07/24 17:07	03/15/24 18:04	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:07	03/15/24 18:04	1
Cobalt	0.0037		0.0010		mg/L		03/07/24 17:07	03/15/24 18:04	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:07	03/15/24 18:04	1
Lithium	0.024		0.010		mg/L		03/07/24 17:07	03/15/24 18:04	1
Molybdenum	0.045		0.0050		mg/L		03/07/24 17:07	03/15/24 18:04	1
Selenium	0.016		0.0025		mg/L		03/07/24 17:07	03/15/24 18:04	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:07	03/15/24 18:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			02/23/24 07:16	1
Chloride (SM 4500 Cl- E)	200		10		mg/L			02/25/24 13:28	5
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/15/24 13:18	1
Sulfate (SM 4500 SO4 E)	390		50		mg/L			02/27/24 16:19	10

Definitions/Glossary

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

Job ID: 500-246398-1

Qualifiers

General Chemistry

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

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 ABB/ASB

Job ID: 500-246398-1

Metals

Prep Batch: 757380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total Recoverable	Water	3005A	
500-246398-2	MW-18	Total Recoverable	Water	3005A	
500-246398-3	MW-19	Total Recoverable	Water	3005A	
500-246398-4	Duplicate	Total Recoverable	Water	3005A	
500-246398-5	MW-01	Total Recoverable	Water	3005A	
500-246398-6	MW-08	Total Recoverable	Water	3005A	
500-246398-7	MW-09	Total Recoverable	Water	3005A	
500-246398-8	MW-11	Total Recoverable	Water	3005A	
500-246398-9	MW-12	Total Recoverable	Water	3005A	
500-246398-10	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: 757479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	7470A	
500-246398-2	MW-18	Total/NA	Water	7470A	
500-246398-3	MW-19	Total/NA	Water	7470A	
500-246398-4	Duplicate	Total/NA	Water	7470A	
500-246398-5	MW-01	Total/NA	Water	7470A	
500-246398-6	MW-08	Total/NA	Water	7470A	
500-246398-7	MW-09	Total/NA	Water	7470A	
500-246398-8	MW-11	Total/NA	Water	7470A	
500-246398-9	MW-12	Total/NA	Water	7470A	
500-246398-10	MW-15	Total/NA	Water	7470A	
MB 500-757479/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-757479/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-246398-7 MS	MW-09	Total/NA	Water	7470A	
500-246398-7 MSD	MW-09	Total/NA	Water	7470A	
500-246398-7 DU	MW-09	Total/NA	Water	7470A	

Analysis Batch: 757671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	7470A	757479
500-246398-2	MW-18	Total/NA	Water	7470A	757479
500-246398-3	MW-19	Total/NA	Water	7470A	757479
500-246398-4	Duplicate	Total/NA	Water	7470A	757479
500-246398-5	MW-01	Total/NA	Water	7470A	757479
500-246398-6	MW-08	Total/NA	Water	7470A	757479
500-246398-7	MW-09	Total/NA	Water	7470A	757479
500-246398-8	MW-11	Total/NA	Water	7470A	757479
500-246398-9	MW-12	Total/NA	Water	7470A	757479
500-246398-10	MW-15	Total/NA	Water	7470A	757479
MB 500-757479/12-A	Method Blank	Total/NA	Water	7470A	757479
LCS 500-757479/13-A	Lab Control Sample	Total/NA	Water	7470A	757479
500-246398-7 MS	MW-09	Total/NA	Water	7470A	757479
500-246398-7 MSD	MW-09	Total/NA	Water	7470A	757479
500-246398-7 DU	MW-09	Total/NA	Water	7470A	757479

QC Association Summary

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

Job ID: 500-246398-1

Metals

Analysis Batch: 758708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total Recoverable	Water	6020B	757380
500-246398-2	MW-18	Total Recoverable	Water	6020B	757380
500-246398-3	MW-19	Total Recoverable	Water	6020B	757380
500-246398-4	Duplicate	Total Recoverable	Water	6020B	757380
500-246398-5	MW-01	Total Recoverable	Water	6020B	757380
500-246398-6	MW-08	Total Recoverable	Water	6020B	757380
500-246398-7	MW-09	Total Recoverable	Water	6020B	757380
500-246398-8	MW-11	Total Recoverable	Water	6020B	757380
500-246398-9	MW-12	Total Recoverable	Water	6020B	757380
500-246398-10	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
500-246398-1	MW-17	Total Recoverable	Water	6020B	757380
500-246398-2	MW-18	Total Recoverable	Water	6020B	757380
500-246398-3	MW-19	Total Recoverable	Water	6020B	757380
500-246398-4	Duplicate	Total Recoverable	Water	6020B	757380
500-246398-5	MW-01	Total Recoverable	Water	6020B	757380
500-246398-6	MW-08	Total Recoverable	Water	6020B	757380
500-246398-7	MW-09	Total Recoverable	Water	6020B	757380
500-246398-8	MW-11	Total Recoverable	Water	6020B	757380
500-246398-9	MW-12	Total Recoverable	Water	6020B	757380
500-246398-10	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

General Chemistry

Analysis Batch: 755087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	SM 4500 CI- E	
500-246398-2	MW-18	Total/NA	Water	SM 4500 CI- E	
500-246398-3	MW-19	Total/NA	Water	SM 4500 CI- E	
500-246398-4	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-755087/115	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-755087/116	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-246398-1 MS	MW-17	Total/NA	Water	SM 4500 CI- E	
500-246398-1 MSD	MW-17	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 755264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-246398-2	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-246398-3	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-246398-4	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-246398-5	MW-01	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	

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QC Association Summary

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

Job ID: 500-246398-1

General Chemistry

Analysis Batch: 755370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	SM 2540C	
500-246398-2	MW-18	Total/NA	Water	SM 2540C	
500-246398-3	MW-19	Total/NA	Water	SM 2540C	
500-246398-4	Duplicate	Total/NA	Water	SM 2540C	
500-246398-5	MW-01	Total/NA	Water	SM 2540C	
500-246398-6	MW-08	Total/NA	Water	SM 2540C	
500-246398-7	MW-09	Total/NA	Water	SM 2540C	
500-246398-8	MW-11	Total/NA	Water	SM 2540C	
500-246398-9	MW-12	Total/NA	Water	SM 2540C	
500-246398-10	MW-15	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	
500-246398-1 MS	MW-17	Total/NA	Water	SM 2540C	
500-246398-1 DU	MW-17	Total/NA	Water	SM 2540C	
500-246398-2 DU	MW-18	Total/NA	Water	SM 2540C	

Analysis Batch: 755355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-5	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-246398-6	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-246398-7	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-246398-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-246398-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-246398-10	MW-15	Total/NA	Water	SM 4500 Cl- E	
MB 500-755355/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755355/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 756044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-6	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-246398-7	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-246398-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-246398-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-246398-10	MW-15	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: 757490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	SM 4500 F C	
MB 500-757490/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-757490/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 758551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-2	MW-18	Total/NA	Water	SM 4500 F C	
500-246398-3	MW-19	Total/NA	Water	SM 4500 F C	
500-246398-4	Duplicate	Total/NA	Water	SM 4500 F C	
500-246398-5	MW-01	Total/NA	Water	SM 4500 F C	
500-246398-6	MW-08	Total/NA	Water	SM 4500 F C	
500-246398-7	MW-09	Total/NA	Water	SM 4500 F C	

Eurofins Chicago

QC Association Summary

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

Job ID: 500-246398-1

General Chemistry (Continued)

Analysis Batch: 758551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-8	MW-11	Total/NA	Water	SM 4500 F C	
500-246398-9	MW-12	Total/NA	Water	SM 4500 F C	
500-246398-10	MW-15	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	
500-246398-7 MS	MW-09	Total/NA	Water	SM 4500 F C	
500-246398-7 MSD	MW-09	Total/NA	Water	SM 4500 F C	



QC Sample Results

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

Job ID: 500-246398-1

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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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	<0.010		0.010		mg/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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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

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
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	0.500	0.461		mg/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
Beryllium	0.0500	0.0443		mg/L		89	80 - 120
Boron	1.00	0.921		mg/L		92	80 - 120

QC Sample Results

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

Job ID: 500-246398-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-757479/12-A
Matrix: Water
Analysis Batch: 757671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/08/24 11:00	03/11/24 09:05	1

Lab Sample ID: LCS 500-757479/13-A
Matrix: Water
Analysis Batch: 757671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00205		mg/L		102	80 - 120

Lab Sample ID: 500-246398-7 MS
Matrix: Water
Analysis Batch: 757671

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 757479

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125

Lab Sample ID: 500-246398-7 MSD
Matrix: Water
Analysis Batch: 757671

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 757479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	5	20

Lab Sample ID: 500-246398-7 DU
Matrix: Water
Analysis Batch: 757671

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 757479

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 ABB/ASB

Job ID: 500-246398-1

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

Lab Sample ID: 500-246398-1 MS
Matrix: Water
Analysis Batch: 755370

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1600		250	1750	4	mg/L		78	75 - 125

Lab Sample ID: 500-246398-1 DU
Matrix: Water
Analysis Batch: 755370

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1600		1580		mg/L		1	5

Lab Sample ID: 500-246398-2 DU
Matrix: Water
Analysis Batch: 755370

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1010		mg/L		1	5

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: 500-246398-1 MS
Matrix: Water
Analysis Batch: 755087

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	180		20.0	201	4	mg/L		90	75 - 125

Lab Sample ID: 500-246398-1 MSD
Matrix: Water
Analysis Batch: 755087

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	180		20.0	198	4	mg/L		73	75 - 125	2	20

QC Sample Results

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

Job ID: 500-246398-1

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

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 500-755535/68
 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 500-757490/31
 Matrix: Water
 Analysis Batch: 757490

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			03/07/24 17:22	1

Lab Sample ID: LCS 500-757490/32
 Matrix: Water
 Analysis Batch: 757490

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	9.98		mg/L		100	90 - 119

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

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

Lab Sample ID: 500-246398-7 MS
 Matrix: Water
 Analysis Batch: 758551

Client Sample ID: MW-09
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.17		5.00	5.19		mg/L		100	75 - 125

QC Sample Results

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

Job ID: 500-246398-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-246398-7 MSD
Matrix: Water
Analysis Batch: 758551

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.17		5.00	5.16		mg/L		100	75 - 125	1	20

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

Client Information		Sample: <i>Jack Misner</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-120485-47169 1				
Client Contact: Kaelyn Sperle		Phone: <i>262-622-1143</i>	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: <i>IL</i>	Page: Page 1 of 1 <i>500-246398</i>				
Company: KPRG and Associates, Inc.		PWSID	Analysis Requested		Job #: <i>123131</i>				
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <i>Standard</i>			Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)				
City: Brookfield		TAT Requested (days): <i>Standard</i>							
State, Zip: WI, 53005		Compliance Project Δ Yes Δ No							
Phone: 262-781-0475(Tel)		PO #: 4502125100							
Email: kaelyns@kprginc.com		WO #:							
Project Name: ABB/ASB Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612							
Site: Illinois		SSOW#	Total Number of Containers		Other				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Samples (Yes or No)	Persulfate (Yes or No)	Special Instructions/Note:	
								Preservation Code: <i>D D N N</i>	
MW-01					Water				
MW-08					Water				
MW-09					Water				
MW-11					Water				
MW-12					Water				
MW-15					Water				
1 MW-17		<i>2/19/24</i>	<i>1500</i>	<i>G</i>	Water	<i>NN</i>	<i>XXX</i>		
2 MW-18		<i>2/19/24</i>	<i>1412</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>		
3 MW-19		<i>2/19/24</i>	<i>1302</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>		
4 Duplicate		<i>2/19/24</i>	<i>-</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>		
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<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 Misner</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 Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>17+22, 4.1+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 | Environment Testing

Client Information		Sampler: Jack Misner	Lab PM: Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-120485-47169 1						
Client Contact: Kaelyn Sperle		Phone: 262-622-1143	E-Mail: Diana Mockler@et.eurofinsus.com	State of Origin: IL	Page: Page 1 of 1 500-246398						
Company: KPRG and Associates, Inc.		PWSID	Analysis Requested		Job #: 12313.1						
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: Standard	 <p>500-246398 COC</p>		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)						
City: Brookfield		TAT Requested (days): Standard									
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Phone: 262-781-0475(Tel)		PO #: 4502125100									
Email: kaelyns@kprginc.com		WO #:									
Project Name: ABB/ASB Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612	Field Filtered Sample (Yes or No) Perform MS/MS (Yes or No)								
Site: Illinois		SSOW#:	903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E SM4500_SO4_E - Sulfate								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MS (Yes or No)	Total Number of Containers	Special Instructions/Note:		
5 MW-01		2/21/24	0907	G	Water	N	N	X	X	X	
6 MW-08		2/21/24	1245	G	Water	N	N	X	X	X	
7 MW-09		2/21/24	1129	↓	Water	N	N	X	X	X	
8 MW-11		2/21/24	1017	↓	Water	N	N	X	X	X	
9 MW-12		2/20/24	1242	↓	Water	N	N	X	X	X	
10 MW-15		2/29/24	1121	G	Water	N	N	X	X	X	
MW-16					Water						
MW-16					Water						
MW-16					Water						
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)						
Deliverable Requested I, II, III, IV, Other (specify)					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Empty Kit Relinquished by		Date	Time	Method of Shipment:							
Relinquished by: Jack Misner	Date/Time: 2/21/24 1650	Company: KPRG	Received by: FedEx	Date/Time: 2/21/24 1650	Company: FedEx						
Relinquished by:	Date/Time:	Company:	Received by: Stephane Hemond	Date/Time: 2/22/24 0940	Company: FEIA						
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:						
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.9 → 2.4, 2.6 → 2.1									

ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

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

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

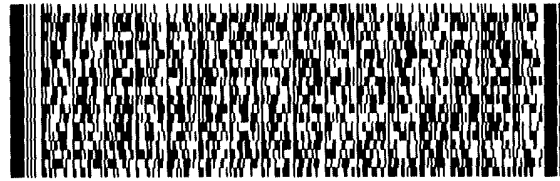
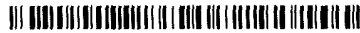
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INV: PO:

REF:

DEPT:



FedEx
Express
REL#
3785346

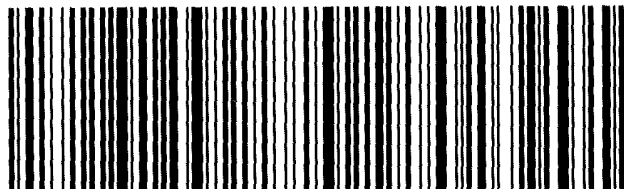
Part # 15629FMS684K10B25EXP 10/24

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

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

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

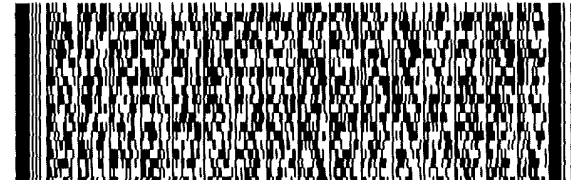
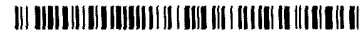
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INV: PO:

REF:

DEPT:



FedEx
Express
REL#
3785346

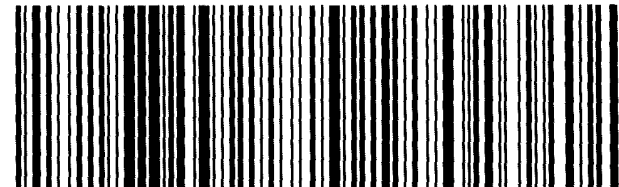
Part # 15629FMS684K10B25EXP 10/24

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



500-246398 Waybi

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ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 21FEB24
ACTWGT: 60.15 LB
CAD: 6994780/SSFE2500
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

2417 BOND ST.

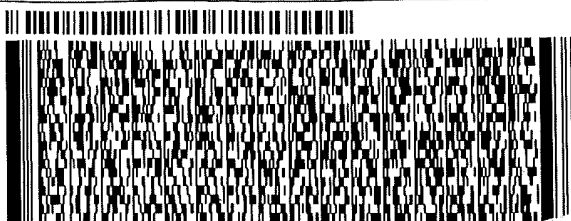
UNIVERSITY PARK IL 60484

(556) 656-5556

REF:

INU:

DEPT:



FedEx
Express



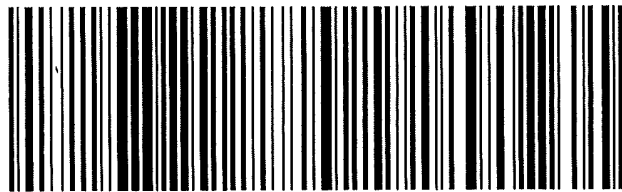
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3 of 4
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0263
Mstr# 2712 6386 5626

0201

XP JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(556) 656-5556

REF:

INU:

DEPT:



FedEx
Express



AN 1001101020

REL#
3785346

4 of 4
MPS# 2712 6386 5659
0263
Mstr# 2712 6386 5626

0201

XP JOTA

60484
IL-US ORD



RT 519
ST 22

10:30

5659
02.22

BILL THIRD PARTY

500-246398 Waybi

Part # 156297

Part # 156297

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246398-1

Login Number: 246398

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,3.6,2.4,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-246398-1

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

Lab Sample ID: 500-246398-1
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:29
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:20
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:10
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 06:45
Total/NA	Analysis	SM 4500 CI- E		5	755087	TR	EET CHI	02/21/24 17:00
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 19:35
Total/NA	Analysis	SM 4500 SO4 E		20	755264	TR	EET CHI	02/22/24 14:07

Client Sample ID: MW-18
Date Collected: 02/19/24 04:12
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-2
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:32
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:24
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:12
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 06:52
Total/NA	Analysis	SM 4500 CI- E		5	755087	TR	EET CHI	02/21/24 16:59
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 12:18
Total/NA	Analysis	SM 4500 SO4 E		2	755264	TR	EET CHI	02/22/24 14:00

Client Sample ID: MW-19
Date Collected: 02/19/24 13:02
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-3
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:36
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:27
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:18
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 06:58
Total/NA	Analysis	SM 4500 CI- E		1	755087	TR	EET CHI	02/21/24 16:38
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 12:23
Total/NA	Analysis	SM 4500 SO4 E		5	755264	TR	EET CHI	02/22/24 14:07

Lab Chronicle

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

Job ID: 500-246398-1

Client Sample ID: Duplicate
Date Collected: 02/19/24 00:00
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-4
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:39
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:31
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:20
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:00
Total/NA	Analysis	SM 4500 CI- E		1	755087	TR	EET CHI	02/21/24 16:39
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 12:28
Total/NA	Analysis	SM 4500 SO4 E		5	755264	TR	EET CHI	02/22/24 14:07

Client Sample ID: MW-01
Date Collected: 02/21/24 09:07
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-5
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:43
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:35
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:22
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:03
Total/NA	Analysis	SM 4500 CI- E		1	755535	TR	EET CHI	02/25/24 13:31
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 12:33
Total/NA	Analysis	SM 4500 SO4 E		2	755264	TR	EET CHI	02/22/24 13:58

Client Sample ID: MW-08
Date Collected: 02/21/24 12:45
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-6
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:46
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:39
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:25
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:05
Total/NA	Analysis	SM 4500 CI- E		2	755535	TR	EET CHI	02/25/24 13:30
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 12:38
Total/NA	Analysis	SM 4500 SO4 E		2	756044	TR	EET CHI	02/27/24 16:02

Lab Chronicle

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

Job ID: 500-246398-1

Client Sample ID: MW-09

Date Collected: 02/21/24 11:29

Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-7

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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:50
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:50
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:27
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:08
Total/NA	Analysis	SM 4500 CI- E		1	755535	TR	EET CHI	02/25/24 13:30
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 12:43
Total/NA	Analysis	SM 4500 SO4 E		5	756044	TR	EET CHI	02/27/24 16:20

Client Sample ID: MW-11

Date Collected: 02/21/24 10:17

Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-8

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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:53
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:54
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:35
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:11
Total/NA	Analysis	SM 4500 CI- E		2	755535	TR	EET CHI	02/25/24 13:30
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:09
Total/NA	Analysis	SM 4500 SO4 E		2	756044	TR	EET CHI	02/27/24 16:00

Client Sample ID: MW-12

Date Collected: 02/20/24 12:42

Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-9

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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 17:57
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 12:57
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:37
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:13
Total/NA	Analysis	SM 4500 CI- E		5	755535	TR	EET CHI	02/25/24 13:30
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:14
Total/NA	Analysis	SM 4500 SO4 E		10	756044	TR	EET CHI	02/27/24 16:19

Lab Chronicle

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

Job ID: 500-246398-1

Client Sample ID: MW-15
Date Collected: 02/20/24 11:21
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-10
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 ¹
Total Recoverable	Analysis	6020B		1	758708	RN	EET CHI	03/15/24 18:04
Total Recoverable	Prep	3005A			757380	MC	EET CHI	03/07/24 17:07 - 03/07/24 23:07 ¹
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:02
Total/NA	Prep	7470A			757479	MJG	EET CHI	03/08/24 11:00 - 03/08/24 13:00 ¹
Total/NA	Analysis	7470A		1	757671	MJG	EET CHI	03/11/24 09:44
Total/NA	Analysis	SM 2540C		1	755370	CLB	EET CHI	02/23/24 07:16
Total/NA	Analysis	SM 4500 Cl- E		5	755535	TR	EET CHI	02/25/24 13:28
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 13:18
Total/NA	Analysis	SM 4500 SO4 E		10	756044	TR	EET CHI	02/27/24 16:19

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

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-246398-1

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

- 1
- 2
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- 9
- 10
- 11
- 12
- 13

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/22/2024 10:44:14 AM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-246398-2

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



Generated
3/22/2024 10:44:14 AM

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



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Case Narrative

Client: KPRG and Associates, Inc.
Project: Powerton CCR ABB/ASB (RAD)

Job ID: 500-246398-2

Job ID: 500-246398-2

Eurofins Chicago

Job Narrative 500-246398-2

Receipt

The samples were received on 02/20/24 10:00. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 2.2° C, 2.4° C and 3.6° C.

RAD

Method 904.0: Radium-228 batch 649964

The sample duplicate (DUP) precision was outside the control limits. However the original sample and DUP activity is below the MDC / RL making the measurement of precision less critical. The lab does not believe this discrepancy to have a negative impact on the data being reported. (160-53264-B-59-B DU)

Method 904.0: Radium-228 batch 649964

The yttrium carrier recovery was outside the upper QC limit in the associated sample. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. (160-53264-A-59-B)

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

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Method Summary

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

Job ID: 500-246398-2

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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- 14

Sample Summary

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

Job ID: 500-246398-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246398-1	MW-17	Water	02/19/24 15:00	02/20/24 10:00
500-246398-2	MW-18	Water	02/19/24 04:12	02/20/24 10:00
500-246398-3	MW-19	Water	02/19/24 13:02	02/20/24 10:00
500-246398-4	Duplicate	Water	02/19/24 00:00	02/20/24 10:00
500-246398-5	MW-01	Water	02/21/24 09:07	02/22/24 09:40
500-246398-6	MW-08	Water	02/21/24 12:45	02/22/24 09:40
500-246398-7	MW-09	Water	02/21/24 11:29	02/22/24 09:40
500-246398-8	MW-11	Water	02/21/24 10:17	02/22/24 09:40
500-246398-9	MW-12	Water	02/20/24 12:42	02/22/24 09:40
500-246398-10	MW-15	Water	02/20/24 11:21	02/22/24 09:40

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Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-17

Lab Sample ID: 500-246398-1

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	0.0352	U	0.0546	0.0547	1.00	0.0947	pCi/L	02/22/24 10:00	03/15/24 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					02/22/24 10:00	03/15/24 07:21	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	-0.0798	U	0.243	0.243	1.00	0.489	pCi/L	02/22/24 10:04	03/08/24 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					02/22/24 10:04	03/08/24 11:57	1
Y Carrier	77.8		30 - 110					02/22/24 10:04	03/08/24 11:57	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	-0.0446	U	0.249	0.249	5.00	0.489	pCi/L		03/15/24 13:35	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-18
Date Collected: 02/19/24 04:12
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-2
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
Radium-226	0.174		0.0966	0.0979	1.00	0.126	pCi/L	02/22/24 10:00	03/15/24 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					02/22/24 10:00	03/15/24 07:21	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.707		0.377	0.382	1.00	0.523	pCi/L	02/22/24 10:04	03/08/24 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					02/22/24 10:04	03/08/24 11:57	1
Y Carrier	77.0		30 - 110					02/22/24 10:04	03/08/24 11:57	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	0.881		0.389	0.394	5.00	0.523	pCi/L		03/15/24 13:35	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-19

Lab Sample ID: 500-246398-3

Date Collected: 02/19/24 13:02

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	0.0745	U	0.0869	0.0871	1.00	0.142	pCi/L	02/22/24 10:00	03/15/24 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/22/24 10:00	03/15/24 07:21	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	0.362	U	0.314	0.316	1.00	0.494	pCi/L	02/22/24 10:04	03/08/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/22/24 10:04	03/08/24 12:04	1
Y Carrier	82.2		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	0.437	U	0.326	0.328	5.00	0.494	pCi/L		03/15/24 13:35	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: Duplicate

Lab Sample ID: 500-246398-4

Date Collected: 02/19/24 00:00

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	0.0393	U	0.0692	0.0693	1.00	0.121	pCi/L	02/22/24 10:00	03/15/24 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		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	0.367	U	0.306	0.308	1.00	0.473	pCi/L	02/22/24 10:04	03/08/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110					02/22/24 10:04	03/08/24 12:04	1
Y Carrier	80.7		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	0.407	U	0.314	0.316	5.00	0.473	pCi/L		03/15/24 13:35	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-01
Date Collected: 02/21/24 09:07
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-5
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	0.0712	U	0.0631	0.0634	1.00	0.0933	pCi/L	02/27/24 10:05	03/20/24 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/27/24 10:05	03/20/24 07:19	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	0.185	U	0.276	0.277	1.00	0.468	pCi/L	02/27/24 10:09	03/13/24 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/27/24 10:09	03/13/24 12:13	1
Y Carrier	80.7		30 - 110					02/27/24 10:09	03/13/24 12:13	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	0.256	U	0.283	0.284	5.00	0.468	pCi/L		03/21/24 22:24	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-08

Lab Sample ID: 500-246398-6

Date Collected: 02/21/24 12:45

Matrix: Water

Date Received: 02/22/24 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171		0.0825	0.0840	1.00	0.0903	pCi/L	02/27/24 10:05	03/20/24 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/27/24 10:05	03/20/24 07:19	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	0.477	U	0.339	0.342	1.00	0.515	pCi/L	02/27/24 10:09	03/13/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/27/24 10:09	03/13/24 12:14	1
Y Carrier	80.4		30 - 110					02/27/24 10:09	03/13/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.648		0.349	0.352	5.00	0.515	pCi/L		03/21/24 22:24	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-09

Lab Sample ID: 500-246398-7

Date Collected: 02/21/24 11:29

Matrix: Water

Date Received: 02/22/24 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0356	U	0.0628	0.0629	1.00	0.111	pCi/L	02/27/24 10:05	03/20/24 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/27/24 10:05	03/20/24 07:32	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	0.605		0.368	0.372	1.00	0.540	pCi/L	02/27/24 10:09	03/13/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/27/24 10:09	03/13/24 12:14	1
Y Carrier	83.0		30 - 110					02/27/24 10:09	03/13/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.641		0.373	0.377	5.00	0.540	pCi/L		03/21/24 22:24	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-11
 Date Collected: 02/21/24 10:17
 Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-8
 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	0.258		0.108	0.111	1.00	0.121	pCi/L	02/27/24 10:05	03/20/24 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110					02/27/24 10:05	03/20/24 07:32	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	0.912		0.434	0.442	1.00	0.589	pCi/L	02/27/24 10:09	03/13/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110					02/27/24 10:09	03/13/24 12:14	1
Y Carrier	74.8		30 - 110					02/27/24 10:09	03/13/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.17		0.447	0.456	5.00	0.589	pCi/L		03/21/24 22:24	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-12

Lab Sample ID: 500-246398-9

Date Collected: 02/20/24 12:42

Matrix: Water

Date Received: 02/22/24 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149		0.0877	0.0888	1.00	0.116	pCi/L	02/27/24 10:05	03/20/24 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/27/24 10:05	03/20/24 07:32	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	0.209	U	0.307	0.308	1.00	0.520	pCi/L	02/27/24 10:09	03/13/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/27/24 10:09	03/13/24 12:14	1
Y Carrier	72.5		30 - 110					02/27/24 10:09	03/13/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.358	U	0.319	0.321	5.00	0.520	pCi/L		03/21/24 22:24	1

Client Sample Results

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

Job ID: 500-246398-2

Client Sample ID: MW-15

Lab Sample ID: 500-246398-10

Date Collected: 02/20/24 11:21

Matrix: Water

Date Received: 02/22/24 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136		0.0893	0.0902	1.00	0.125	pCi/L	02/27/24 10:05	03/20/24 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		30 - 110					02/27/24 10:05	03/20/24 07:32	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	0.320	U	0.335	0.336	1.00	0.543	pCi/L	02/27/24 10:09	03/13/24 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		30 - 110					02/27/24 10:09	03/13/24 12:54	1
Y Carrier	84.5		30 - 110					02/27/24 10:09	03/13/24 12:54	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	0.456	U	0.347	0.348	5.00	0.543	pCi/L		03/21/24 22:24	1

Definitions/Glossary

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

Job ID: 500-246398-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-246398-2

Rad

Prep Batch: 649207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	PrecSep-21	
500-246398-2	MW-18	Total/NA	Water	PrecSep-21	
500-246398-3	MW-19	Total/NA	Water	PrecSep-21	
500-246398-4	Duplicate	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	

Prep Batch: 649208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-1	MW-17	Total/NA	Water	PrecSep_0	
500-246398-2	MW-18	Total/NA	Water	PrecSep_0	
500-246398-3	MW-19	Total/NA	Water	PrecSep_0	
500-246398-4	Duplicate	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	

Prep Batch: 649963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-5	MW-01	Total/NA	Water	PrecSep-21	
500-246398-6	MW-08	Total/NA	Water	PrecSep-21	
500-246398-7	MW-09	Total/NA	Water	PrecSep-21	
500-246398-8	MW-11	Total/NA	Water	PrecSep-21	
500-246398-9	MW-12	Total/NA	Water	PrecSep-21	
500-246398-10	MW-15	Total/NA	Water	PrecSep-21	
MB 160-649963/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649963/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 649964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246398-5	MW-01	Total/NA	Water	PrecSep_0	
500-246398-6	MW-08	Total/NA	Water	PrecSep_0	
500-246398-7	MW-09	Total/NA	Water	PrecSep_0	
500-246398-8	MW-11	Total/NA	Water	PrecSep_0	
500-246398-9	MW-12	Total/NA	Water	PrecSep_0	
500-246398-10	MW-15	Total/NA	Water	PrecSep_0	
MB 160-649964/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649964/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-246398-2

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	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05133	U	0.0566	0.0568	1.00	0.0901	pCi/L	02/22/24 10:00	03/15/24 07:04	1
Carrier	MB	MB	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	106			Prepared	Analyzed	Dil Fac				
				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	Qualifier	30 - 110						
	104								

Lab Sample ID: MB 160-649963/1-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649963

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.007554	U	0.0478	0.0478	1.00	0.105	pCi/L	02/27/24 10:05	03/20/24 07:16	1
Carrier	MB	MB	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	98.7			Prepared	Analyzed	Dil Fac				
				02/27/24 10:05	03/20/24 07:16	1				

Lab Sample ID: LCS 160-649963/2-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649963

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.23		1.08	1.00	0.0993	pCi/L	90	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	30 - 110						
	98.5								

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	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.07674	U	0.237	0.237	1.00	0.426	pCi/L	02/22/24 10:04	03/08/24 11:54	1

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QC Sample Results

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

Job ID: 500-246398-2

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

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: MB 160-649964/1-A
 Matrix: Water
 Analysis Batch: 652315

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 649964

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.004376	U	0.255	0.255	1.00	0.485	pCi/L	02/27/24 10:09	03/13/24 12:42	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		30 - 110	02/27/24 10:09	03/13/24 12:42	1
Y Carrier	86.7		30 - 110	02/27/24 10:09	03/13/24 12:42	1

Lab Sample ID: LCS 160-649964/2-A
 Matrix: Water
 Analysis Batch: 652315

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 649964

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.13	10.56		1.40	1.00	0.571	pCi/L	116	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.5		30 - 110
Y Carrier	84.9		30 - 110


Eurofins Chicago

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

Chain of Custody Record

MKE 232


eurofins | Environment Testing

Client Information		Sample: <u>Jack Misner</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s)		COC No: <u>500-120485-47169 1</u>						
Client Contact: <u>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> 500-246398						
Company: <u>KPRG and Associates, Inc.</u>		PWSID		Analysis Requested				Job #: <u>123131</u>						
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>		 500-246398 COC				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)						
City: <u>Brookfield</u>		TAT Requested (days): <u>Standard</u>												
State, Zip: <u>WI, 53005</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>kaelyns@kprginc.com</u>		WO #:		Field Filled Samples (Yes or No):		Total Number of Containers:		Special Instructions/Note:						
Project Name: <u>ABB/ASB Event Desc. Quarterly Powerton CCR Sampling</u>		Project #: <u>50011612</u>		Perish (Yes/No) (Yes or No):		50010C, 6020A, 7470A								
Site: <u>Illinois</u>		SSOW#		2540C, 4500_F_C, SIM4500_CI_E, SIM4500_SO4_E		SIM4500_SO4_E - Sulfate								
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)							
						Preservation Code								
MW-01							Water							
MW-08							Water							
MW-09							Water							
MW-11							Water							
MW-12							Water							
MW-15							Water							
1	MW-17			2/19/24	1500	G	Water	N	N	X	X	X	X	
2	MW-18			2/19/24	1412	G	Water	N	N	X	X	X	X	
3	MW-19			2/19/24	1302	G	Water	N	N	X	X	X	X	
4	Duplicate			2/19/24	-	G	Water	N	N	X	X	X	X	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<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>2/19/24 1700</u>	Company: <u>KPRG</u>	Received by: <u>FedEx</u>		Date/Time: <u>2/19/24 1700</u>	Company: <u>FedEx</u>						
Relinquished by:			Date/Time:	Company:	Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>2/20/24 1000</u>	Company: <u>EETA</u>						
Relinquished by:			Date/Time:	Company:	Received by:		Date/Time:	Company:						
Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks: <u>17+22, 4.1+3.6</u>									

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Chain of Custody Record

MKE 232 eurofins | Environment Testing

Client Information				Sampler: Jack Misner	Lab PM: Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-120485-47169 1		
Client Contact: Kaelyn Sperle				Phone: 262-622-1143	E-Mail: Diana Mockler@et.eurofinsus.com	State of Origin: IL	Page: 1 Page 1 of 1 500-246398		
Company: KPRG and Associates, Inc.				PWSID	Analysis Requested			Job #: 12313.1	
Address: 14665 West Lisbon Road, Suite 1A				Due Date Requested: Standard	 500-246398 COC			Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)	
City: Brookfield				TAT Requested (days): Standard					
State, Zip: WI, 53005				Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Phone: 262-781-0475(Tel)				PO #: 4502125100					
Email: kaelyns@kprginc.com				WO #:					
Project Name: ABB/ASB Event Desc. Quarterly Powerton CCR Sampling				Project #: 50011612					
Site: Illinois				SSOW#:					
Sample Identification				Special Instructions/Note:					
		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performs MS/MS (Yes or No)	500-246398 COC	
				Preservation Code					
5	MW-01	2/21/24	0907	G	Water	N	N	X X X X	
6	MW-08	2/21/24	1245	G	Water	N	N	X X X X	
7	MW-09	2/21/24	1129	↓	Water	N	N	X X X X	
8	MW-11	2/21/24	1017	↓	Water	N	N	X X X X	
9	MW-12	2/20/24	1242	↓	Water	N	N	X X X X	
10	MW-15	2/29/24	1121	G	Water	N	N	X X X X	
11	MW-18				Water				
12	MW-18				Water				
13	MW-18				Water				
14	MW-18				Water				
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<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: Jack Misner				Date/Time: 2/21/24 1650	Company: KPRG	Received by: FedEx		Date/Time: 2/21/24 1650	Company: FedEx
Relinquished by:				Date/Time:	Company:	Received by: Stephanie Hemond		Date/Time: 2/22/24 0940	Company: FEIA
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: 2.9 - 2.4, 2.6 - 2.1			

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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
ACTWTG: 59.70 LB
CAD: 6994780/SSFE2500
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 15629FMS684K10B25EXP 10/24

TO EUROFINS

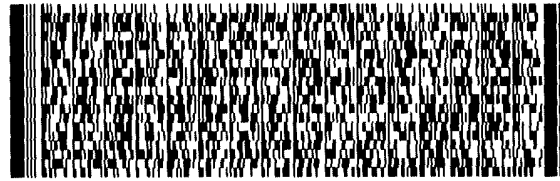
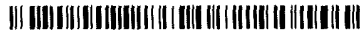
2417 BOND ST.

UNIVERSITY PARK IL 60484

(566) 666-5666
INV: PO:

REF:

DEPT:



FedEx Express
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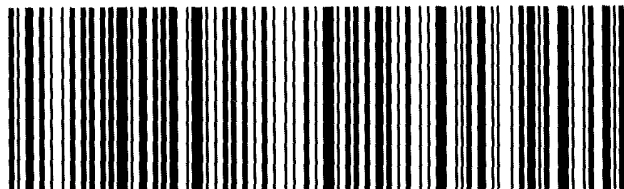
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MASTER

XP JOTA

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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
ACTWTG: 59.70 LB
CAD: 6994780/SSFE2500
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 15629FMS684K10B25EXP 10/24

TO EUROFINS

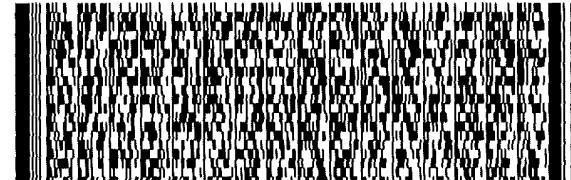
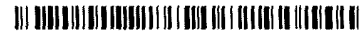
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UNIVERSITY PARK IL 60484

(566) 666-5666
INV: PO:

REF:

DEPT:



FedEx Express
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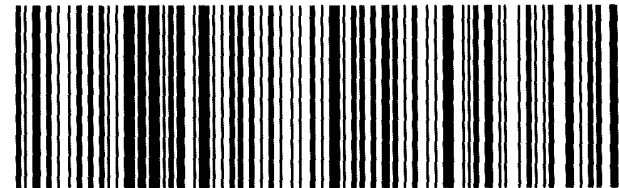
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Mstr# 2711 6218 6854

XP JOTA

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



500-246398 Waybi

ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 21FEB24
ACTWGT: 60.15 LB
CAD: 6994780/SSFE2500
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

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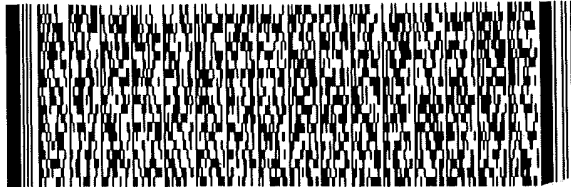
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(556) 656-5556

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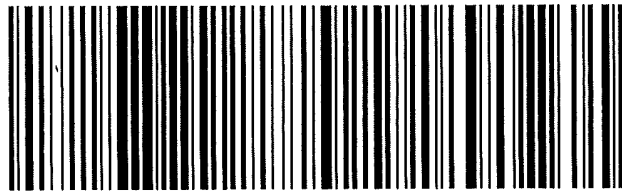
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IL-US ORD



ORIGIN ID:PIAA (262) 622-1
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINs

2417 BOND ST.

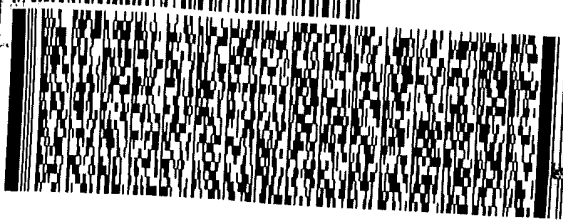
UNIVERSITY PARK IL 60484

(556) 656-5556

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4 of 4

MPS# 2712 6386 5659
0263

Mstr# 2712 6386 5626

0201

XP JOTA

60484
IL-US ORD



RT 519
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10:30

5659
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THIRD PARTY



500-246398 Waybi

Part # 1562974

Part # 1562974

RT 519
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5 10:30
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5648
02.22

THU - 22 FEB 10:30A
PRIORITY OVERNIGHT

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-184953.1	
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofinsus.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-246398-2	
Address: 13715 Rider Trail North,		State of Origin: Illinois		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
City: Earth City		Due Date Requested: 3/25/2024		Analysis Requested	
State, Zip: MO, 63045		TAT Requested (days):		Total Number of containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		903/PreSep_21 Standard Target List	
Email:		WO #:		904/PreSep_0 Standard Target List	
Project Name: Powerton CCR (RAD)		Project #: 50011612		Perform MS/MSD (Yes or No)	
Site: MWG - Powerton		SSOW#:		Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time	
MW-17 (500-246398-1)		2/19/24		15:00 Central	
MW-18 (500-246398-2)		2/19/24		04:12 Central	
MW-19 (500-246398-3)		2/19/24		13:02 Central	
Duplicate (500-246398-4)		2/19/24		Central	
Special Instructions/Note:		Preservation Code:		Matrix (W=water, S=solid, O=water/Oil, BT=Tissue, AA=)	
Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS		Water		Water	
Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS		Water		Water	
Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS		Water		Water	
Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS		Water		Water	

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Method of Shipment: Archive For Months

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:

Relinquished by: <i>Stephanie Hernandez</i>	Date/Time: 2/20/24 11:00	Company: <i>EEFA</i>	Received by: <i>Sana Worthington</i>	Date/Time: <i>FEB 21 2024</i>	Company: <i>EEFA</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:			

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)
 Client Contact: Mockler, Diana J
 Shipping/Receiving: Diana Mockler@eurofins.com
 State of Origin: Illinois
 Carrier Tracking No(s): 500-185015.1
 Page: Page 1 of 1
 Job #: 500-246398-2

Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North, Earth City, MO 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email: [Redacted]
 Project Name: Powerton CCR (RAD)
 Site: MWG - Powerton
 Project #: 50011612
 SSON#: [Redacted]

Due Date Requested: 3/12/2024
 TAT Requested (days): [Redacted]
 PO #: [Redacted]
 WO #: [Redacted]

Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soils, Sediment, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228 GFC	Total Number of Containers	Special Instructions/Note:
2/21/24	09:07 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
2/21/24	12:45 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
2/21/24	11:29 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
2/21/24	10:17 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
2/20/24	12:42 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
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

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) [Redacted] Primary Deliverable Rank: 2
 Date: [Redacted]
 Date/Time: 2/22/24 1300
 Date/Time: [Redacted]
 Date/Time: [Redacted]

Received by: [Signature]
 Date/Time: 2/23/24 0830
 Company: ETAS
 Received by: [Redacted]
 Date/Time: [Redacted]
 Company: [Redacted]
 Received by: [Redacted]
 Date/Time: [Redacted]
 Company: [Redacted]
 Custody Seals Intact: Custody Seal No.: [Redacted]
 Cooler Temperature(s) °C and Other Remarks: [Redacted]



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246398-2

Login Number: 246398

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,3.6,2.4,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246398-2

Login Number: 246398

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: 500-246398-2

Login Number: 246398

List Number: 3

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 02/23/24 04:31 PM

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



Lab Chronicle

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

Job ID: 500-246398-2

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

Lab Sample ID: 500-246398-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	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	652700	SCB	EET SL	03/15/24 07:21
Total/NA	Prep	PrecSep_0			649208	KAC	EET SL	02/22/24 10:04
Total/NA	Analysis	904.0		1	651636	FLC	EET SL	03/08/24 11:57
Total/NA	Analysis	Ra226_Ra228		1	652695	SCB	EET SL	03/15/24 13:35

Client Sample ID: MW-18
Date Collected: 02/19/24 04:12
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	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	652700	SCB	EET SL	03/15/24 07:21
Total/NA	Prep	PrecSep_0			649208	KAC	EET SL	02/22/24 10:04
Total/NA	Analysis	904.0		1	651636	FLC	EET SL	03/08/24 11:57
Total/NA	Analysis	Ra226_Ra228		1	652695	SCB	EET SL	03/15/24 13:35

Client Sample ID: MW-19
Date Collected: 02/19/24 13:02
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	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	652700	SCB	EET SL	03/15/24 07:21
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: Duplicate
Date Collected: 02/19/24 00:00
Date Received: 02/20/24 10:00

Lab Sample ID: 500-246398-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	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

Lab Chronicle

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

Job ID: 500-246398-2

Client Sample ID: MW-01
Date Collected: 02/21/24 09:07
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649963	KAC	EET SL	02/27/24 10:05
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 07:19
Total/NA	Prep	PrecSep_0			649964	KAC	EET SL	02/27/24 10:09
Total/NA	Analysis	904.0		1	652334	SWS	EET SL	03/13/24 12:13
Total/NA	Analysis	Ra226_Ra228		1	653555	RER	EET SL	03/21/24 22:24

Client Sample ID: MW-08
Date Collected: 02/21/24 12:45
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649963	KAC	EET SL	02/27/24 10:05
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 07:19
Total/NA	Prep	PrecSep_0			649964	KAC	EET SL	02/27/24 10:09
Total/NA	Analysis	904.0		1	652334	SWS	EET SL	03/13/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	653555	RER	EET SL	03/21/24 22:24

Client Sample ID: MW-09
Date Collected: 02/21/24 11:29
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649963	KAC	EET SL	02/27/24 10:05
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 07:32
Total/NA	Prep	PrecSep_0			649964	KAC	EET SL	02/27/24 10:09
Total/NA	Analysis	904.0		1	652334	SWS	EET SL	03/13/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	653555	RER	EET SL	03/21/24 22:24

Client Sample ID: MW-11
Date Collected: 02/21/24 10:17
Date Received: 02/22/24 09:40

Lab Sample ID: 500-246398-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649963	KAC	EET SL	02/27/24 10:05
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 07:32
Total/NA	Prep	PrecSep_0			649964	KAC	EET SL	02/27/24 10:09
Total/NA	Analysis	904.0		1	652334	SWS	EET SL	03/13/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	653555	RER	EET SL	03/21/24 22:24

Lab Chronicle

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

Job ID: 500-246398-2

Client Sample ID: MW-12

Lab Sample ID: 500-246398-9

Date Collected: 02/20/24 12:42

Matrix: Water

Date Received: 02/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649963	KAC	EET SL	02/27/24 10:05
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 07:32
Total/NA	Prep	PrecSep_0			649964	KAC	EET SL	02/27/24 10:09
Total/NA	Analysis	904.0		1	652334	SWS	EET SL	03/13/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	653555	RER	EET SL	03/21/24 22:24

Client Sample ID: MW-15

Lab Sample ID: 500-246398-10

Date Collected: 02/20/24 11:21

Matrix: Water

Date Received: 02/22/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649963	KAC	EET SL	02/27/24 10:05
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 07:32
Total/NA	Prep	PrecSep_0			649964	KAC	EET SL	02/27/24 10:09
Total/NA	Analysis	904.0		1	652334	SWS	EET SL	03/13/24 12:54
Total/NA	Analysis	Ra226_Ra228		1	653555	RER	EET SL	03/21/24 22:24

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 ABB/ASB (RAD)

Job ID: 500-246398-2

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 ABB/ASB (RAD)

Job ID: 500-246398-2

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)
500-246398-1	MW-17	98.0
500-246398-2	MW-18	95.4
500-246398-3	MW-19	101
500-246398-4	Duplicate	98.5
500-246398-5	MW-01	103
500-246398-6	MW-08	105
500-246398-7	MW-09	101
500-246398-8	MW-11	95.7
500-246398-9	MW-12	103
500-246398-10	MW-15	104
LCS 160-649207/2-A	Lab Control Sample	104
LCS 160-649963/2-A	Lab Control Sample	98.5
MB 160-649207/1-A	Method Blank	106
MB 160-649963/1-A	Method Blank	98.7

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)
500-246398-1	MW-17	98.0	77.8
500-246398-2	MW-18	95.4	77.0
500-246398-3	MW-19	101	82.2
500-246398-4	Duplicate	98.5	80.7
500-246398-5	MW-01	103	80.7
500-246398-6	MW-08	105	80.4
500-246398-7	MW-09	101	83.0
500-246398-8	MW-11	95.7	74.8
500-246398-9	MW-12	103	72.5
500-246398-10	MW-15	104	84.5
LCS 160-649208/2-A	Lab Control Sample	104	81.1
LCS 160-649964/2-A	Lab Control Sample	98.5	84.9
MB 160-649208/1-A	Method Blank	106	83.7
MB 160-649964/1-A	Method Blank	98.7	86.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/21/24
Sample Name	MW-01	Start Time	0849	
Condition of Well	Good			
Water Level	21.25	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4.5 gal	WL at Sample Time		
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, FAB, ABB/ASB	Sample Time	0907	
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)
0851	21.25	7.69	10.1	.863	11.31	77.1	24.46
0854	-	7.18	12.5	.907	10.44	94.0	18.18
0857	-	7.13	12.6	.915	9.88	101.3	18.41
0900	-	7.12	12.6	.915	9.40	106.8	21.71
0903	-	7.12	12.7	.919	9.13	109.6	17.88

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

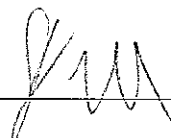
PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/21/24
Sample Name	MW-00	Start Time	1221	
Condition of Well	Good			
Water Level	25.21	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear / Slightly Cloudy	
Volume Removed	5.5 qt	WL at Sample Time	25.21	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy	
Sample Analysis	CCA, ABB/ASB	Sample Time	1245	
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)
1226	25.21	7.89	14.5	1.188	9.29	99.0	36.58
1229	-	7.59	15.3	1.260	6.78	-135.7	53.51
1232	-	7.81	15.3	1.140	4.52	-198.3	19.97
1235	-	7.83	15.4	1.073	3.60	-213.9	14.04
1238	-	7.82	15.4	1.057	3.04	-220.1	10.91
1241	-	7.81	15.4	1.056	2.67	-221.5	9.20

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/21/24
Sample Name	MW-09	Start Time	1112	
Condition of Well	Good			
Water Level	24.00	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4qt	WL at Sample Time	24.10	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, ABB/ASB	Sample Time	1129	
Water Quality Meter	YSI Pro MS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1116	24.00	7.31	16.9	.841	9.19	93.5	6.16
1119	-	7.46	17.8	.798	5.10	84.4	9.06
1122	-	7.48	17.8	.800	3.85	78.9	7.47
1125	-	7.47	17.8	.803	3.11	72.8	6.04

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

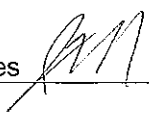


PROJECT NAME	12313.1 - NRG - Powerton Station		DATE	2/21/24
Sample Name	MW-11	Start Time	1001	
Condition of Well	Pro top hinge not in best shape			
Water Level	27.37	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Brown/Gray	
Volume Removed	4 qt	WL at Sample Time	27.37	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, ABB/ASB	Sample Time	1017	
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)
1002	27.37	7.68	14.2	1.065	10.87	105.5	14.94
1005	-	7.21	15.3	1.328	7.51	-12.6	121.30
1008	-	7.24	15.3	1.286	4.94	-86.3	29.00
1011	-	7.25	15.8	1.286	4.32	-92.9	29.66
1014	-	7.26	16.4	1.288	3.89	-95.4	53.00

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates 

PROJECT NAME	12313.1 - NRG - Powerton Station		DATE	2/20/24
Sample Name	MW-12	Start Time	1221	
Condition of Well	Good			
Water Level	21.53	Total Depth	✓	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Gray	
Volume Removed	6gt	WL at Sample Time	21.53	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy/Clear	
Sample Analysis	CCA, ABB/ASB cCR	Sample Time	1242	
Water Quality Meter				

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1223	21.53	7.87	13.2	1.347	8.94	-46.6	20.30
1226	-	7.79	13.7	1.426	7.64	-92.7	73.88
1229	-	7.85	13.1	1.426	5.59	-129.9	41.15
1232	-	7.87	12.7	1.426	4.40	-144.5	21.67
1235	-	7.89	12.6	1.427	3.70	-151.5	22.44
1238	-	7.90	12.6	1.426	3.24	-158.0	10.04

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	2/19/24
Sample Name	MW-18	Start Time	1350	
Condition of Well	Good			
Water Level	24.46	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	5 gal	WL at Sample Time	27.77	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	ABB/ASB CCR	Sample Time	1412	
Water Quality Meter				

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1356	24.46	8.10	13.5	1.518	8.34	-122.8	14.89
1359	-	8.11	14.0	1.525	5.67	-159.2	6.31
1402	-	8.12	14.1	1.525	3.98	-180.3	6.67
1405	-	8.11	14.1	1.526	3.36	-187.4	6.34
1408	-	8.10	14.0	1.528	2.97	-190.5	6.89

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	12313.1 - NRG - Powerton Station		DATE	2/18/24
Sample Name	MN-19	Start Time	1245	
Condition of Well	Good			
Water Level	21.30	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4qt	WL at Sample Time	21.30	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	ABB/ABR	Sample Time	1302	
Water Quality Meter	YSI P10 MSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1249	21.30	7.92	14.4	.844	7.79	5.2	5.89
1252	-	7.68	14.5	.839	7.67	5.7	4.89
1255	-	7.58	14.5	.836	7.57	3.6	4.46
1258	-	7.53	14.5	.834	7.53	2.2	4.20

SAMPLING NOTES:

Duplicate

Sampler Name and Company:

KPRG and Associates

