

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 2023 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Table 2. Groundwater Turbidity - Midwest Generation, LLC, 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
MW-09	2/24/2021	16.90
	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
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
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

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	
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	
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	
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	
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	

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

Attn: Richard Gnat
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Generated 3/17/2023 11:22:03 AM

JOB DESCRIPTION

Powerton CCR - Quarterly

JOB NUMBER

500-229791-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

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

Job ID: 500-229791-1

Job ID: 500-229791-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-229791-1

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 9:55 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 -1.1° C, 0.5° C, 1.1° C and 1.4° C.

Metals

Method 6020A: The low level continuing calibration verification (ICVL/CCVL) associated with batch 500-700664 recovered above the upper control limit for Beryllium. The samples associated with this ICVL/CCVL were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-700664. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

General Chemistry

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



Method Summary

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

Job ID: 500-229791-1

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

Job ID: 500-229791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229791-1	MW-18	Water	02/21/23 14:48	02/22/23 09:55
500-229791-2	MW-19	Water	02/21/23 13:36	02/22/23 09:55
500-229791-3	Duplicate	Water	02/21/23 00:00	02/22/23 09:55
500-229791-4	MW-01	Water	02/22/23 10:22	02/23/23 09:50
500-229791-5	MW-08	Water	02/22/23 11:41	02/23/23 09:50
500-229791-6	MW-09	Water	02/23/23 14:54	02/24/23 09:50
500-229791-7	MW-11	Water	02/23/23 13:36	02/24/23 09:50
500-229791-8	MW-12	Water	02/23/23 12:18	02/24/23 09:50
500-229791-9	MW-15	Water	02/23/23 08:43	02/24/23 09:50
500-229791-10	MW-17	Water	02/23/23 09:39	02/24/23 09:50

- 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 - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-18

Lab Sample ID: 500-229791-1

Date Collected: 02/21/23 14:48

Matrix: Water

Date Received: 02/22/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 13:24	1
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 15:31	1
Barium	0.12		0.0025		mg/L		02/22/23 16:18	02/23/23 13:24	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:24	1
Boron	0.68		0.050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Calcium	130		0.20		mg/L		02/22/23 16:18	02/23/23 13:24	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:24	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Lithium	0.012		0.010		mg/L		02/22/23 16:18	02/23/23 13:24	1
Molybdenum	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Selenium	<0.0025		0.0025		mg/L		02/22/23 16:18	02/23/23 13:24	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 13:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			02/23/23 04:23	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			03/01/23 11:35	10
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			02/23/23 13:49	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			03/01/23 13:12	10

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-19

Lab Sample ID: 500-229791-2

Date Collected: 02/21/23 13:36

Matrix: Water

Date Received: 02/22/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 13:27	1
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 15:34	1
Barium	0.063		0.0025		mg/L		02/22/23 16:18	02/23/23 13:27	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:27	1
Boron	3.9		0.050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Calcium	70		0.20		mg/L		02/22/23 16:18	02/23/23 13:27	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:27	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Lithium	<0.010		0.010		mg/L		02/22/23 16:18	02/23/23 13:27	1
Molybdenum	0.032		0.0050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Selenium	0.0033		0.0025		mg/L		02/22/23 16:18	02/23/23 13:27	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 13:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/23/23 04:25	1
Chloride (SM 4500 Cl- E)	33		20		mg/L			03/01/23 11:35	10
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			02/23/23 13:49	1
Sulfate (SM 4500 SO4 E)	170		50		mg/L			03/01/23 13:13	10

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: Duplicate

Lab Sample ID: 500-229791-3

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 13:30	1
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 15:38	1
Barium	0.065		0.0025		mg/L		02/22/23 16:18	02/23/23 13:30	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:30	1
Boron	4.1		0.050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Calcium	73		0.20		mg/L		02/22/23 16:18	02/23/23 13:30	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:30	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Lithium	<0.010		0.010		mg/L		02/22/23 16:18	02/23/23 13:30	1
Molybdenum	0.034		0.0050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Selenium	0.0036		0.0025		mg/L		02/22/23 16:18	02/23/23 13:30	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 13:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10		mg/L			02/23/23 04:28	1
Chloride (SM 4500 Cl- E)	34		20		mg/L			03/01/23 11:35	10
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			02/23/23 13:49	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			03/01/23 13:13	10

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-01
Date Collected: 02/22/23 10:22
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 13:16	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Barium	0.083		0.0025		mg/L		02/23/23 16:26	02/24/23 13:16	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Boron	0.47		0.050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Calcium	110		0.20		mg/L		02/23/23 16:26	02/24/23 13:16	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Molybdenum	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Selenium	0.0027		0.0025		mg/L		02/23/23 16:26	02/24/23 13:16	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 13:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10		mg/L			02/24/23 02:32	1
Chloride (SM 4500 Cl- E)	53		10		mg/L			03/01/23 11:35	5
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	47		25		mg/L			03/01/23 13:13	5

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-08

Lab Sample ID: 500-229791-5

Date Collected: 02/22/23 11:41

Matrix: Water

Date Received: 02/23/23 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 13:19	1
Arsenic	0.0029		0.0010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Barium	0.13		0.0025		mg/L		02/23/23 16:26	02/24/23 13:19	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Boron	0.66		0.050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Calcium	130		0.20		mg/L		02/23/23 16:26	02/24/23 13:19	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Lithium	0.022		0.010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Molybdenum	0.0070		0.0050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 13:19	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 13:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	800		10		mg/L			02/24/23 02:35	1
Chloride (SM 4500 Cl- E)	140		40		mg/L			03/01/23 11:36	20
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	61		25		mg/L			03/01/23 13:14	5

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-09

Lab Sample ID: 500-229791-6

Date Collected: 02/23/23 14:54

Matrix: Water

Date Received: 02/24/23 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:53	1
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Barium	0.037		0.0025		mg/L		02/27/23 08:21	02/28/23 17:53	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Boron	4.6		0.50		mg/L		02/27/23 08:21	03/01/23 13:25	10
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Calcium	71		0.20		mg/L		02/27/23 08:21	02/28/23 17:53	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Molybdenum	0.034		0.0050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:53	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 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		03/01/23 11:25	03/02/23 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	520		10		mg/L			02/27/23 05:04	1
Chloride (SM 4500 Cl- E)	31		2.0		mg/L			03/01/23 11:36	1
Fluoride (SM 4500 F C)	0.18		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	150		50		mg/L			03/01/23 13:14	10

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-11
Date Collected: 02/23/23 13:36
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:57	1
Arsenic	0.012		0.0010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Barium	0.17		0.0025		mg/L		02/27/23 08:21	02/28/23 17:57	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Boron	3.1		0.50		mg/L		02/27/23 08:21	03/01/23 13:28	10
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Calcium	110		0.20		mg/L		02/27/23 08:21	02/28/23 17:57	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Cobalt	0.0017		0.0010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Molybdenum	0.016		0.0050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:57	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 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		03/01/23 11:25	03/02/23 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/27/23 05:07	1
Chloride (SM 4500 Cl- E)	63		20		mg/L			03/01/23 11:37	10
Fluoride (SM 4500 F C)	0.58		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			03/01/23 12:54	10

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-12

Lab Sample ID: 500-229791-8

Date Collected: 02/23/23 12:18

Matrix: Water

Date Received: 02/24/23 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:00	1
Arsenic	0.032		0.0010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Barium	0.068		0.0025		mg/L		02/27/23 08:21	02/28/23 18:00	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Boron	0.28		0.050		mg/L		02/27/23 08:21	03/01/23 13:32	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Calcium	100		0.20		mg/L		02/27/23 08:21	02/28/23 18:00	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Molybdenum	0.013		0.0050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 18:00	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	950		10		mg/L			02/27/23 05:10	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			03/01/23 11:37	10
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	340		100		mg/L			03/01/23 12:55	20

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-15

Lab Sample ID: 500-229791-9

Date Collected: 02/23/23 08:43

Matrix: Water

Date Received: 02/24/23 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:04	1
Arsenic	0.0049		0.0010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Barium	0.056		0.0025		mg/L		02/27/23 08:21	02/28/23 18:04	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Boron	1.2		0.25		mg/L		02/27/23 08:21	03/01/23 13:35	5
Cadmium	0.00091		0.00050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Calcium	200		0.20		mg/L		02/27/23 08:21	02/28/23 18:04	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Cobalt	0.0089		0.0010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Lithium	0.025		0.010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Molybdenum	0.093		0.0050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Selenium	0.029		0.0025		mg/L		02/27/23 08:21	02/28/23 18:04	1
Thallium	0.0029		0.0020		mg/L		02/27/23 08:21	02/28/23 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		03/01/23 11:25	03/02/23 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			02/27/23 05:12	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			03/01/23 11:37	10
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	390		250		mg/L			03/01/23 12:55	50

Client Sample Results

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

Job ID: 500-229791-1

Client Sample ID: MW-17

Lab Sample ID: 500-229791-10

Date Collected: 02/23/23 09:39

Matrix: Water

Date Received: 02/24/23 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:07	1
Arsenic	0.0034		0.0010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Barium	0.027		0.0025		mg/L		02/27/23 08:21	02/28/23 18:07	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Boron	1.6		0.25		mg/L		02/27/23 08:21	03/01/23 13:38	5
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Calcium	170		0.20		mg/L		02/27/23 08:21	02/28/23 18:07	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Lithium	0.015		0.010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Molybdenum	0.043		0.0050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 18:07	1
Thallium	0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		10		mg/L			02/27/23 05:15	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			03/01/23 11:51	10
Fluoride (SM 4500 F C)	0.67		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	690		250		mg/L			03/01/23 12:56	50

Definitions/Glossary

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

Job ID: 500-229791-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

QC Association Summary

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

Job ID: 500-229791-1

Metals

Prep Batch: 699812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total Recoverable	Water	3005A	
500-229791-2	MW-19	Total Recoverable	Water	3005A	
500-229791-3	Duplicate	Total Recoverable	Water	3005A	
MB 500-699812/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-699812/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 699991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total Recoverable	Water	6020A	699812
500-229791-2	MW-19	Total Recoverable	Water	6020A	699812
500-229791-3	Duplicate	Total Recoverable	Water	6020A	699812
MB 500-699812/1-A	Method Blank	Total Recoverable	Water	6020A	699812
LCS 500-699812/2-A	Lab Control Sample	Total Recoverable	Water	6020A	699812

Analysis Batch: 699994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total Recoverable	Water	6020A	699812
500-229791-2	MW-19	Total Recoverable	Water	6020A	699812
500-229791-3	Duplicate	Total Recoverable	Water	6020A	699812
MB 500-699812/1-A	Method Blank	Total Recoverable	Water	6020A	699812
LCS 500-699812/2-A	Lab Control Sample	Total Recoverable	Water	6020A	699812

Prep Batch: 700008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total Recoverable	Water	3005A	
500-229791-5	MW-08	Total Recoverable	Water	3005A	
MB 500-700008/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700008/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total Recoverable	Water	6020A	700008
500-229791-5	MW-08	Total Recoverable	Water	6020A	700008
MB 500-700008/1-A	Method Blank	Total Recoverable	Water	6020A	700008
LCS 500-700008/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700008

Prep Batch: 700282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total Recoverable	Water	3005A	
500-229791-7	MW-11	Total Recoverable	Water	3005A	
500-229791-8	MW-12	Total Recoverable	Water	3005A	
500-229791-9	MW-15	Total Recoverable	Water	3005A	
500-229791-10	MW-17	Total Recoverable	Water	3005A	
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total Recoverable	Water	6020A	700282
500-229791-7	MW-11	Total Recoverable	Water	6020A	700282
500-229791-8	MW-12	Total Recoverable	Water	6020A	700282

Eurofins Chicago

QC Association Summary

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

Job ID: 500-229791-1

Metals (Continued)

Analysis Batch: 700664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-9	MW-15	Total Recoverable	Water	6020A	700282
500-229791-10	MW-17	Total Recoverable	Water	6020A	700282
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	6020A	700282
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700282

Prep Batch: 700696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	7470A	
500-229791-2	MW-19	Total/NA	Water	7470A	
500-229791-3	Duplicate	Total/NA	Water	7470A	
500-229791-4	MW-01	Total/NA	Water	7470A	
500-229791-5	MW-08	Total/NA	Water	7470A	
500-229791-6	MW-09	Total/NA	Water	7470A	
500-229791-7	MW-11	Total/NA	Water	7470A	
500-229791-8	MW-12	Total/NA	Water	7470A	
500-229791-9	MW-15	Total/NA	Water	7470A	
500-229791-10	MW-17	Total/NA	Water	7470A	
MB 500-700696/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-700696/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-229791-7 MS	MW-11	Total/NA	Water	7470A	
500-229791-7 MSD	MW-11	Total/NA	Water	7470A	
500-229791-7 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 700848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total Recoverable	Water	6020A	700282
500-229791-7	MW-11	Total Recoverable	Water	6020A	700282
500-229791-8	MW-12	Total Recoverable	Water	6020A	700282
500-229791-9	MW-15	Total Recoverable	Water	6020A	700282
500-229791-10	MW-17	Total Recoverable	Water	6020A	700282

Analysis Batch: 700850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	6020A	700282
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700282

Analysis Batch: 700909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	7470A	700696
500-229791-2	MW-19	Total/NA	Water	7470A	700696
500-229791-3	Duplicate	Total/NA	Water	7470A	700696
500-229791-4	MW-01	Total/NA	Water	7470A	700696
500-229791-5	MW-08	Total/NA	Water	7470A	700696
500-229791-6	MW-09	Total/NA	Water	7470A	700696
500-229791-7	MW-11	Total/NA	Water	7470A	700696
500-229791-8	MW-12	Total/NA	Water	7470A	700696
500-229791-9	MW-15	Total/NA	Water	7470A	700696
500-229791-10	MW-17	Total/NA	Water	7470A	700696
MB 500-700696/12-A	Method Blank	Total/NA	Water	7470A	700696
LCS 500-700696/13-A	Lab Control Sample	Total/NA	Water	7470A	700696
500-229791-7 MS	MW-11	Total/NA	Water	7470A	700696

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QC Association Summary

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

Job ID: 500-229791-1

Metals (Continued)

Analysis Batch: 700909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-7 MSD	MW-11	Total/NA	Water	7470A	700696
500-229791-7 DU	MW-11	Total/NA	Water	7470A	700696

General Chemistry

Analysis Batch: 699823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 2540C	
500-229791-2	MW-19	Total/NA	Water	SM 2540C	
500-229791-3	Duplicate	Total/NA	Water	SM 2540C	
MB 500-699823/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-699823/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 699977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 4500 F C	
500-229791-2	MW-19	Total/NA	Water	SM 4500 F C	
500-229791-3	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-699977/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-699977/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 700037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	SM 2540C	
500-229791-5	MW-08	Total/NA	Water	SM 2540C	
MB 500-700037/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700037/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 700232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	SM 2540C	
500-229791-7	MW-11	Total/NA	Water	SM 2540C	
500-229791-8	MW-12	Total/NA	Water	SM 2540C	
500-229791-9	MW-15	Total/NA	Water	SM 2540C	
500-229791-10	MW-17	Total/NA	Water	SM 2540C	
MB 500-700232/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700232/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 700591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	SM 4500 F C	
500-229791-5	MW-08	Total/NA	Water	SM 4500 F C	
MB 500-700591/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-700591/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700591/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-700591/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 700692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 4500 CI- E	
500-229791-2	MW-19	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

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

Job ID: 500-229791-1

General Chemistry (Continued)

Analysis Batch: 700692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-3	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-229791-4	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-229791-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-229791-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-229791-7	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-229791-8	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-229791-9	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-229791-10	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-700692/56	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-700692/57	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 700721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-229791-2	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-229791-3	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-229791-4	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-229791-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-229791-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-229791-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-229791-8	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-229791-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-229791-10	MW-17	Total/NA	Water	SM 4500 SO4 E	
MB 500-700721/55	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-700721/56	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 700911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	SM 4500 F C	
500-229791-7	MW-11	Total/NA	Water	SM 4500 F C	
500-229791-8	MW-12	Total/NA	Water	SM 4500 F C	
500-229791-9	MW-15	Total/NA	Water	SM 4500 F C	
500-229791-10	MW-17	Total/NA	Water	SM 4500 F C	
MB 500-700911/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700911/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-229791-6 MS	MW-09	Total/NA	Water	SM 4500 F C	
500-229791-6 MSD	MW-09	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-229791-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-699812/1-A
Matrix: Water
Analysis Batch: 699991

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 12:37	1
Barium	<0.0025		0.0025		mg/L		02/22/23 16:18	02/23/23 12:37	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 12:37	1
Boron	<0.050		0.050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Calcium	<0.20		0.20		mg/L		02/22/23 16:18	02/23/23 12:37	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 12:37	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Lithium	<0.010		0.010		mg/L		02/22/23 16:18	02/23/23 12:37	1
Molybdenum	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Selenium	<0.0025		0.0025		mg/L		02/22/23 16:18	02/23/23 12:37	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 12:37	1

Lab Sample ID: MB 500-699812/1-A
Matrix: Water
Analysis Batch: 699994

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 14:46	1

Lab Sample ID: LCS 500-699812/2-A
Matrix: Water
Analysis Batch: 699991

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	2.00	2.07		mg/L		104	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Boron	1.00	0.968		mg/L		97	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	10.0	9.97		mg/L		100	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.526		mg/L		105	80 - 120
Molybdenum	1.00	0.979		mg/L		98	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-699812/2-A
Matrix: Water
Analysis Batch: 699994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 699812

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

QC Sample Results

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

Job ID: 500-229791-1

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

Lab Sample ID: MB 500-700008/1-A
Matrix: Water
Analysis Batch: 700200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700008

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 11:53	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Barium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 11:53	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Boron	<0.050		0.050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Calcium	<0.20		0.20		mg/L		02/23/23 16:26	02/24/23 11:53	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Molybdenum	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 11:53	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 11:53	1

Lab Sample ID: LCS 500-700008/2-A
Matrix: Water
Analysis Batch: 700200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0951		mg/L		95	80 - 120
Barium	2.00	2.07		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.901		mg/L		90	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.68		mg/L		97	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.500	0.491		mg/L		98	80 - 120
Molybdenum	1.00	0.972		mg/L		97	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:12	1
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Barium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Boron	<0.050		0.050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Calcium	<0.20		0.20		mg/L		02/27/23 08:21	02/28/23 17:12	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1

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QC Sample Results

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

Job ID: 500-229791-1

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

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:12	1

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700850

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	03/01/23 13:29	1
Barium	<0.0025		0.0025		mg/L		02/27/23 08:21	03/01/23 13:29	1
Calcium	<0.20		0.20		mg/L		02/27/23 08:21	03/01/23 13:29	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	03/01/23 13:29	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	03/01/23 13:29	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	03/01/23 13:29	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	03/01/23 13:29	1

Lab Sample ID: LCS 500-700282/2-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.535		mg/L		107	80 - 120
Arsenic	0.100	0.0952		mg/L		95	80 - 120
Barium	2.00	2.05		mg/L		102	80 - 120
Beryllium	0.0500	0.0479	^1+ ^+	mg/L		96	80 - 120
Boron	1.00	0.983		mg/L		98	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Calcium	10.0	9.80		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	1.00	0.964		mg/L		96	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-700282/2-A
Matrix: Water
Analysis Batch: 700850

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	2.00	2.16		mg/L		108	80 - 120
Calcium	10.0	9.54		mg/L		95	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120

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QC Sample Results

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

Job ID: 500-229791-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-700696/12-A
Matrix: Water
Analysis Batch: 700909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 700696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:50	1

Lab Sample ID: LCS 500-700696/13-A
Matrix: Water
Analysis Batch: 700909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00198		mg/L		100	80 - 120

Lab Sample ID: 500-229791-7 MS
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-229791-7 MSD
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125	2	20

Lab Sample ID: 500-229791-7 DU
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700696

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 500-699823/1
Matrix: Water
Analysis Batch: 699823

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			02/23/23 03:29	1

Lab Sample ID: LCS 500-699823/2
Matrix: Water
Analysis Batch: 699823

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	276		mg/L		110	80 - 120

QC Sample Results

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

Job ID: 500-229791-1

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

Lab Sample ID: MB 500-700037/1
Matrix: Water
Analysis Batch: 700037

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			02/24/23 01:46	1

Lab Sample ID: LCS 500-700037/2
Matrix: Water
Analysis Batch: 700037

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	252		mg/L		101	80 - 120

Lab Sample ID: MB 500-700232/1
Matrix: Water
Analysis Batch: 700232

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			02/27/23 04:39	1

Lab Sample ID: LCS 500-700232/2
Matrix: Water
Analysis Batch: 700232

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	252		mg/L		101	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-700692/56
Matrix: Water
Analysis Batch: 700692

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/01/23 11:31	1

Lab Sample ID: LCS 500-700692/57
Matrix: Water
Analysis Batch: 700692

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

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-699977/3
Matrix: Water
Analysis Batch: 699977

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/23/23 13:49	1

QC Sample Results

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

Job ID: 500-229791-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-699977/4
Matrix: Water
Analysis Batch: 699977

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

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

Lab Sample ID: MB 500-700591/3
Matrix: Water
Analysis Batch: 700591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/28/23 14:13	1

Lab Sample ID: MB 500-700591/31
Matrix: Water
Analysis Batch: 700591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/28/23 14:13	1

Lab Sample ID: LCS 500-700591/32
Matrix: Water
Analysis Batch: 700591

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

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

Lab Sample ID: LCS 500-700591/4
Matrix: Water
Analysis Batch: 700591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.0		mg/L		100	90 - 119

Lab Sample ID: MB 500-700911/3
Matrix: Water
Analysis Batch: 700911

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			03/02/23 13:02	1

Lab Sample ID: LCS 500-700911/4
Matrix: Water
Analysis Batch: 700911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Lab Sample ID: 500-229791-6 MS
Matrix: Water
Analysis Batch: 700911

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	0.18		5.00	5.22		mg/L		101	75 - 125

Eurofins Chicago

QC Sample Results

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

Job ID: 500-229791-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-229791-6 MSD
 Matrix: Water
 Analysis Batch: 700911

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	0.18		5.00	5.20		mg/L		100	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-700721/55
 Matrix: Water
 Analysis Batch: 700721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/01/23 12:48	1

Lab Sample ID: LCS 500-700721/56
 Matrix: Water
 Analysis Batch: 700721

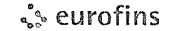
Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		109	88 - 123

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

Chain of Custody Record



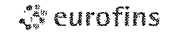
Client Information		Sampler		Lab PM:		Carrier Tracking No(s)		COC No:																											
Client Contact: ██████████ Kaelyn Sperte		Kaelyn Sperte		Mockler, Diana J		500-229791		500-106663-43259 1																											
Company: KPRG and Associates Inc		PWSID		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin: IL		Page: Page 1 of 1																											
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: Standard		 500-229791 COC		<div style="writing-mode: vertical-rl; transform: rotate(180deg);">Analysis Requested</div>		<div style="writing-mode: vertical-rl; transform: rotate(180deg);">Job #: 500-229791</div>																											
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 #: 4502081030																																	
Email: ██████████ kaelyn@kprginc.com		WO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Preservation Codes																											
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		903.0, 904.0		6020A, 7470A		<table border="0"> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Y - Trizma</td></tr> <tr><td></td><td>Z - other (specify)</td></tr> </table>		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)
A - HCL	M - Hexane																																		
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K - EDTA	W - pH 4-5																																		
L - EDA	Y - Trizma																																		
	Z - other (specify)																																		
Site: Illinois		SSOW#:		2540C, 4500_F_C, SM4500_CLE		SM4500_SO4_E - Sulfate		Total Number of containers																											
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																											
								Preservation Code																											
								Special Instructions/Note																											
MW-18		2/21/23		1448		G		Water																											
MW-19		2/21/23		1336		↓		Water																											
3 Duplicate		2/21/23		-		↓		Water																											
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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: Kaelyn Sperte			Date/Time: 2/21/23/1700		Company: KPRG		Received by: FedEx																												
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Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 2.7+1.1																															

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



Chain of Custody Record

MKE 232



Environment Technology

Client Information		500 229791 COC	Sampler Katelyn Sparte		Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No: 500-109813-43259 1																																																																					
Client Contact Mitchel Dolan			Phone 262-278-1621		E-Mail Diana.Mockler@et.eurofins.com	State of Origin IL	Page Page 1 of 1																																																																					
Company KPRG and Associates Inc.		PWSID	Analysis Requested							Job # 500-229791																																																																		
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested standard	<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Perfor. MS/MSD (Yes or No)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>903.0, 904.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6020A, 7470A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2540C, 4590, F, C, SM4500, CL E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SM4500, SO4, E - Sulfate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>							Field Filtered Sample (Yes or No)											Perfor. MS/MSD (Yes or No)											903.0, 904.0											6020A, 7470A											2540C, 4590, F, C, SM4500, CL E											SM4500, SO4, E - Sulfate											Preservation Codes
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City Brookfield		TAT Requested (days) standard	<table border="1"> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDTA</td><td>Y - Trizma</td></tr> <tr><td></td><td>Z - other (specify)</td></tr> </table>							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 - EDTA	Y - Trizma		Z - other (specify)	Other																																								
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Phone 262-781-0475(Tel)		PO #: 4502081030																																																																										
Email mitcheld@kprginc.com		WO #:																																																																										
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612																																																																										
Site: Illinois		SSOW#:																																																																										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Total Number of Containers					Special Instructions/Note.																																																																	
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Deliverable Requested I II, III IV Other (specify)					Special Instructions/QC Requirements																																																																							
Empty Kit Relinquished by		Date	Time	Method of Shipment:																																																																								
Relinquished by Katelyn Sparte		Date/Time 2/22/23/1645	Company KPRG	Received by FedEx			Date/Time 2/22/23/1645	Company FedEx																																																																				
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Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 1.6 + 14																																																																								



Client Information			500 229791 COC	Order: <i>Kaelyn Sperle</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No: 500-109813-43259 1		
Client Contact: <i>Kaelyn Sperle</i>				1262-278 1621	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin <i>IL</i>	Page Page 1 of 1		
Company KPRG and Associates, Inc.				PWSID:	Analysis Requested			Job # <i>500-229791</i>	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <i>Standard</i>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6020A, 7470A 2640C, 4500_F_C, SIM4500_CL_E SIM4500_SO4_E - Sulfate				Preservation Codes	
City Brookfield		TAT Requested (days): <i>Standard</i>						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)	
State, Zip WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No						Other:	
Phone: 262-781-0475(Tel)		PO #: 4502081030						Total Number of containers	
Email: <i>kaelyn.s@kprginc.com</i>		WO #:							
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612							
Site: Illinois		SSOVW:							
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Special Instructions/Note
							Water		
							Water		
<i>6</i>				<i>MW-09</i>	<i>2/23/23 1454</i>	<i>G</i>	Water	<i>NNXXXX</i>	
<i>7</i>				<i>MW-11</i>	<i>2/23/23 1336</i>	<i>↓</i>	Water	<i>NNXXXX</i>	
<i>8</i>				<i>MW-12</i>	<i>2/23/23 1218</i>	<i>↓</i>	Water	<i>NNXXXX</i>	
<i>9</i>				<i>MW-15</i>	<i>2/23/23 0843</i>	<i>↓</i>	Water	<i>NNXXXX</i>	
<i>10</i>				<i>MW-17</i>	<i>2/23/23 0939</i>	<i>G</i>	Water	<i>NNXXXX</i>	
							Water		
							Water		
							Water		
							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 <i>Kaelyn Sperle</i>			Date/Time: <i>2/23/23/1645</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>				
Relinquished by			Date/Time:	Company:	Date/Time: <i>2/23/23/1645</i>				
Relinquished by			Date/Time:	Company:	Date/Time: <i>2/24/23 0950</i>				
Relinquished by			Date/Time:	Company:	Date/Time:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>(2.7-0.5) (-0.9 - -1.1)</i>					

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

INU:

DEPT:

230200010318EXP 09/23



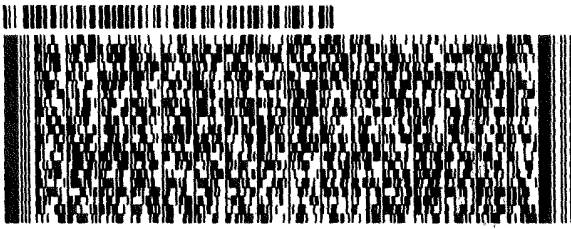
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3 of 5

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MPS# 0263 3948 9886 1783

PRIORITY OVERNIGHT

Mstr# 3948 9886 1761

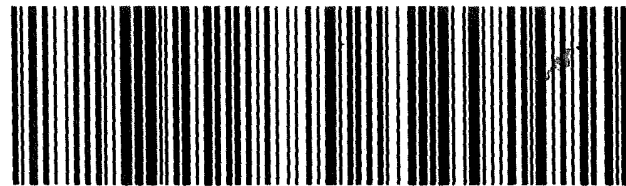
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500-229791 Waybr art # 156292320080005 EXP 09/23

ORIGIN ID:PIA (262) 278-1621
KRELYN SPEARLE
KRELYN ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 22FEB23
ACTWGT: 42.80 LB
CAD: 694780/55FE2401
DIMS: 24X14X14 IN
BILL THIRD PARTY

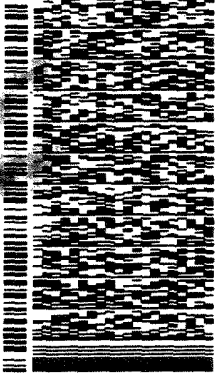
TO EUROFINS

2417 BOND. ST.

UNIVERSITY PARK IL 60484

(708) 634-5200 REF:
NO. 0201

DEP



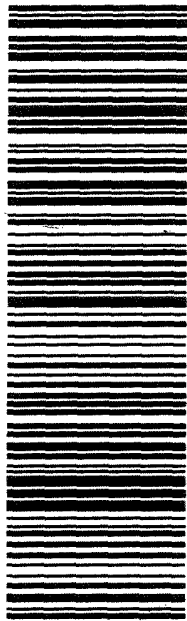
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PRIORITY OVERNIGHT
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60484
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3 of 3
MPS# 3949 4676 8920
0263

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XN JOTA



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ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

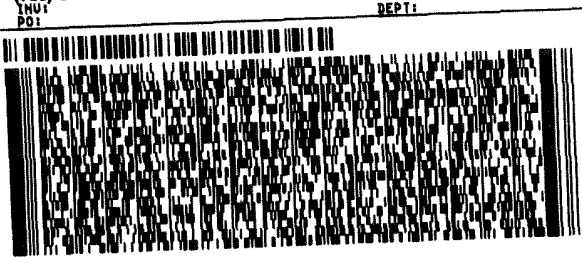
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



MA1011108201E2F

6 of 6
MPS# 3949 9426 6536
0263
Mstr# 3949 9426 6488

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

XN JOTA *480t*

AHS
60484
IL-US ORD



Part # 156297 e35e/8202718P 09/23

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

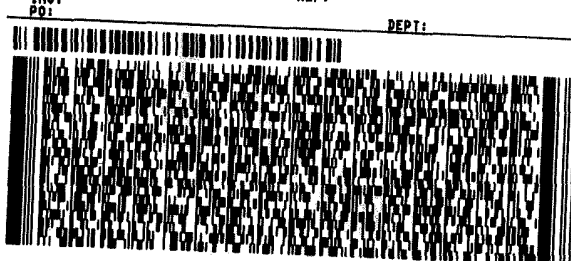
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



MA1011108201E2F

3 of 6
MPS# 3949 9426 6503
0263
Mstr# 3949 9426 6488

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

XN JOTA *480t*

AHS
60484
IL-US ORD



Part # 156297 e35e/8202718P 09/23



500-229791 Waybi

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-1

Login Number: 229791

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,1.4,0.5,-1.1
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 - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-18
Date Collected: 02/21/23 14:48
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699991	FXG	EET CHI	02/23/23 13:24
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699994	FXG	EET CHI	02/23/23 15:31
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 08:55
Total/NA	Analysis	SM 2540C		1	699823	CLB	EET CHI	02/23/23 04:23
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	699977	EH	EET CHI	02/23/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:12

Client Sample ID: MW-19
Date Collected: 02/21/23 13:36
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699991	FXG	EET CHI	02/23/23 13:27
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699994	FXG	EET CHI	02/23/23 15:34
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 08:57
Total/NA	Analysis	SM 2540C		1	699823	CLB	EET CHI	02/23/23 04:25
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	699977	EH	EET CHI	02/23/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:13

Client Sample ID: Duplicate
Date Collected: 02/21/23 00:00
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699991	FXG	EET CHI	02/23/23 13:30
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699994	FXG	EET CHI	02/23/23 15:38
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 08:59
Total/NA	Analysis	SM 2540C		1	699823	CLB	EET CHI	02/23/23 04:28
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	699977	EH	EET CHI	02/23/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:13

Lab Chronicle

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

Job ID: 500-229791-1

Client Sample ID: MW-01

Lab Sample ID: 500-229791-4

Date Collected: 02/22/23 10:22

Matrix: Water

Date Received: 02/23/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 13:16
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:01
Total/NA	Analysis	SM 2540C		1	700037	CLB	EET CHI	02/24/23 02:32
Total/NA	Analysis	SM 4500 CI- E		5	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		5	700721	LP	EET CHI	03/01/23 13:13

Client Sample ID: MW-08

Lab Sample ID: 500-229791-5

Date Collected: 02/22/23 11:41

Matrix: Water

Date Received: 02/23/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 13:19
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:04
Total/NA	Analysis	SM 2540C		1	700037	CLB	EET CHI	02/24/23 02:35
Total/NA	Analysis	SM 4500 CI- E		20	700692	LP	EET CHI	03/01/23 11:36
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		5	700721	LP	EET CHI	03/01/23 13:14

Client Sample ID: MW-09

Lab Sample ID: 500-229791-6

Date Collected: 02/23/23 14:54

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 17:53
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		10	700848	FXG	EET CHI	03/01/23 13:25
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:06
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:04
Total/NA	Analysis	SM 4500 CI- E		1	700692	LP	EET CHI	03/01/23 11:36
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:14

Lab Chronicle

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

Job ID: 500-229791-1

Client Sample ID: MW-11

Date Collected: 02/23/23 13:36

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 17:57
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		10	700848	FXG	EET CHI	03/01/23 13:28
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:08
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:07
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 12:54

Client Sample ID: MW-12

Date Collected: 02/23/23 12:18

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:00
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700848	FXG	EET CHI	03/01/23 13:32
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:37
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:10
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		20	700721	LP	EET CHI	03/01/23 12:55

Client Sample ID: MW-15

Date Collected: 02/23/23 08:43

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:04
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		5	700848	FXG	EET CHI	03/01/23 13:35
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:39
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:12
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700721	LP	EET CHI	03/01/23 12:55

Lab Chronicle

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

Job ID: 500-229791-1

Client Sample ID: MW-17

Lab Sample ID: 500-229791-10

Date Collected: 02/23/23 09:39

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:07
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		5	700848	FXG	EET CHI	03/01/23 13:38
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:53
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:15
Total/NA	Analysis	SM 4500 Cl- E		10	700692	LP	EET CHI	03/01/23 11:51
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700721	LP	EET CHI	03/01/23 12:56

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-229791-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2023 9:10:35 AM

JOB DESCRIPTION

Powerton CCR - Quarterly (RAD)

JOB NUMBER

500-229791-2

Eurofins Chicago

Job Notes

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

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

Authorization



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3/24/2023 9:10:35 AM

Authorized for release by
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/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Job ID: 500-229791-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-229791-2

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 9:55 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 -1.1° C, 0.5° C, 1.1° C and 1.4° C.

RAD

Methods 903.0, 9315: Radium-226 batch 601539

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

MW-18 (500-229791-1), MW-19 (500-229791-2), Duplicate (500-229791-3), (LCS 160-601539/2-A), (MB 160-601539/1-A) and (500-229791-E-3-A DU)

Method 903.0: Radium-226 batch 601827

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

MW-01 (500-229791-4), MW-08 (500-229791-5), (LCS 160-601827/2-A), (MB 160-601827/1-A), (500-229829-E-11-A) and (500-229829-C-11-A DU)

Method 903.0: Radium-226 batch 602034

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

MW-09 (500-229791-6), MW-11 (500-229791-7), MW-12 (500-229791-8), MW-15 (500-229791-9), MW-17 (500-229791-10), (LCS 160-602034/2-A), (MB 160-602034/1-A), (680-230903-E-1-A), (680-230903-E-1-B MS) and (680-230903-E-1-C MSD)

Methods 904.0, 9320: Radium-228 prep batch 160-601540:

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

MW-18 (500-229791-1), MW-19 (500-229791-2), Duplicate (500-229791-3), (LCS 160-601540/2-A), (MB 160-601540/1-A) and (500-229791-E-3-B DU)

Method 904.0: Radium-228 prep batch 160-602036:

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

MW-09 (500-229791-6), MW-11 (500-229791-7), MW-12 (500-229791-8), MW-15 (500-229791-9), MW-17 (500-229791-10), (LCS 160-602036/2-A), (MB 160-602036/1-A), (680-230903-E-1-D), (680-230903-E-1-E MS) and (680-230903-E-1-F MSD)

Method 904.0: Radium-228 batch 601828

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

MW-01 (500-229791-4), MW-08 (500-229791-5), (LCS 160-601828/2-A), (MB 160-601828/1-A), (500-229829-E-11-B) and (500-229829-C-11-B DU)

Case Narrative

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

Job ID: 500-229791-2

Job ID: 500-229791-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep_0:

Method PrecSep-21:

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

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Method Summary

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

Job ID: 500-229791-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-229791-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229791-1	MW-18	Water	02/21/23 14:48	02/22/23 09:55
500-229791-2	MW-19	Water	02/21/23 13:36	02/22/23 09:55
500-229791-3	Duplicate	Water	02/21/23 00:00	02/22/23 09:55
500-229791-4	MW-01	Water	02/22/23 10:22	02/23/23 09:50
500-229791-5	MW-08	Water	02/22/23 11:41	02/23/23 09:50
500-229791-6	MW-09	Water	02/23/23 14:54	02/24/23 09:50
500-229791-7	MW-11	Water	02/23/23 13:36	02/24/23 09:50
500-229791-8	MW-12	Water	02/23/23 12:18	02/24/23 09:50
500-229791-9	MW-15	Water	02/23/23 08:43	02/24/23 09:50
500-229791-10	MW-17	Water	02/23/23 09:39	02/24/23 09:50

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Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-18
Date Collected: 02/21/23 14:48
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.225		0.116	0.118	1.00	0.142	pCi/L	02/24/23 10:00	03/20/23 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					02/24/23 10:00	03/20/23 06:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.33		0.634	0.646	1.00	0.878	pCi/L	02/24/23 10:32	03/03/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					02/24/23 10:32	03/03/23 11:57	1
Y Carrier	87.1		30 - 110					02/24/23 10:32	03/03/23 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	1.55		0.645	0.657	5.00	0.878	pCi/L		03/23/23 17:07	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-19
Date Collected: 02/21/23 13:36
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-2
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	0.113		0.0699	0.0707	1.00	0.0892	pCi/L	02/24/23 10:01	03/20/23 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		30 - 110					02/24/23 10:01	03/20/23 06:43	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	0.318	U	0.327	0.329	1.00	0.528	pCi/L	02/24/23 10:32	03/03/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		30 - 110					02/24/23 10:32	03/03/23 11:57	1
Y Carrier	84.9		30 - 110					02/24/23 10:32	03/03/23 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	0.432	U	0.334	0.337	5.00	0.528	pCi/L		03/23/23 17:07	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: Duplicate

Lab Sample ID: 500-229791-3

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 09:55

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	0.114		0.0744	0.0751	1.00	0.103	pCi/L	02/24/23 10:01	03/20/23 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					02/24/23 10:01	03/20/23 06:43	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	0.470		0.302	0.305	1.00	0.437	pCi/L	02/24/23 10:32	03/03/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					02/24/23 10:32	03/03/23 11:57	1
Y Carrier	85.2		30 - 110					02/24/23 10:32	03/03/23 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	0.584		0.311	0.314	5.00	0.437	pCi/L		03/23/23 17:07	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-01
Date Collected: 02/22/23 10:22
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0806	U	0.0814	0.0817	1.00	0.129	pCi/L	02/28/23 09:01	03/22/23 20:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					02/28/23 09:01	03/22/23 20:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0692	U	0.286	0.286	1.00	0.523	pCi/L	02/28/23 09:47	03/08/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					02/28/23 09:47	03/08/23 12:01	1
Y Carrier	83.7		30 - 110					02/28/23 09:47	03/08/23 12:01	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	0.150	U	0.297	0.297	5.00	0.523	pCi/L		03/23/23 14:26	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-08
Date Collected: 02/22/23 11:41
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-5
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	0.210		0.0991	0.101	1.00	0.125	pCi/L	02/28/23 09:01	03/22/23 20:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					02/28/23 09:01	03/22/23 20:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.466	U	0.328	0.331	1.00	0.494	pCi/L	02/28/23 09:47	03/08/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					02/28/23 09:47	03/08/23 12:01	1
Y Carrier	87.1		30 - 110					02/28/23 09:47	03/08/23 12:01	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	0.676		0.343	0.346	5.00	0.494	pCi/L		03/23/23 14:26	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-09
Date Collected: 02/23/23 14:54
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-6
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	0.0836		0.0559	0.0564	1.00	0.0690	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					03/01/23 09:47	03/23/23 08:00	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	0.484	U	0.393	0.395	1.00	0.614	pCi/L	03/01/23 10:09	03/06/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					03/01/23 10:09	03/06/23 12:11	1
Y Carrier	83.7		30 - 110					03/01/23 10:09	03/06/23 12:11	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	0.568	U	0.397	0.399	5.00	0.614	pCi/L		03/23/23 14:09	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-11
Date Collected: 02/23/23 13:36
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.188		0.0878	0.0894	1.00	0.0907	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.2		30 - 110					03/01/23 09:47	03/23/23 08:00	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	0.746		0.445	0.450	1.00	0.636	pCi/L	03/01/23 10:09	03/06/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.2		30 - 110					03/01/23 10:09	03/06/23 12:11	1
Y Carrier	81.5		30 - 110					03/01/23 10:09	03/06/23 12:11	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	0.934		0.454	0.459	5.00	0.636	pCi/L		03/23/23 14:09	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-12
Date Collected: 02/23/23 12:18
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-8
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	0.0860	U	0.0717	0.0721	1.00	0.104	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.6		30 - 110					03/01/23 09:47	03/23/23 08:00	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	0.571	U	0.543	0.546	1.00	0.874	pCi/L	03/01/23 10:09	03/06/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.6		30 - 110					03/01/23 10:09	03/06/23 12:11	1
Y Carrier	83.4		30 - 110					03/01/23 10:09	03/06/23 12:11	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	0.657	U	0.548	0.551	5.00	0.874	pCi/L		03/23/23 14:09	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-15
Date Collected: 02/23/23 08:43
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-9
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	0.129		0.0834	0.0842	1.00	0.113	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/01/23 09:47	03/23/23 08:00	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	0.528	U	0.417	0.420	1.00	0.646	pCi/L	03/01/23 10:09	03/06/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/01/23 10:09	03/06/23 12:14	1
Y Carrier	82.6		30 - 110					03/01/23 10:09	03/06/23 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.657		0.425	0.428	5.00	0.646	pCi/L		03/23/23 14:09	1

Client Sample Results

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

Job ID: 500-229791-2

Client Sample ID: MW-17
Date Collected: 02/23/23 09:39
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-10
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	0.0567	U	0.0552	0.0555	1.00	0.0844	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					03/01/23 09:47	03/23/23 08:00	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	0.466	U	0.374	0.376	1.00	0.583	pCi/L	03/01/23 10:09	03/06/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					03/01/23 10:09	03/06/23 12:14	1
Y Carrier	84.5		30 - 110					03/01/23 10:09	03/06/23 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.523	U	0.378	0.380	5.00	0.583	pCi/L		03/23/23 14:09	1

Definitions/Glossary

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

Job ID: 500-229791-2

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 - Quarterly (RAD)

Job ID: 500-229791-2

Rad

Prep Batch: 601539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	PrecSep-21	
500-229791-2	MW-19	Total/NA	Water	PrecSep-21	
500-229791-3	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-601539/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601539/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-229791-3 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 601540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	PrecSep_0	
500-229791-2	MW-19	Total/NA	Water	PrecSep_0	
500-229791-3	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-601540/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601540/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-229791-3 DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 601827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	PrecSep-21	
500-229791-5	MW-08	Total/NA	Water	PrecSep-21	
MB 160-601827/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601827/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 601828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	PrecSep_0	
500-229791-5	MW-08	Total/NA	Water	PrecSep_0	
MB 160-601828/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601828/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 602034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	PrecSep-21	
500-229791-7	MW-11	Total/NA	Water	PrecSep-21	
500-229791-8	MW-12	Total/NA	Water	PrecSep-21	
500-229791-9	MW-15	Total/NA	Water	PrecSep-21	
500-229791-10	MW-17	Total/NA	Water	PrecSep-21	
MB 160-602034/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602034/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 602036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	PrecSep_0	
500-229791-7	MW-11	Total/NA	Water	PrecSep_0	
500-229791-8	MW-12	Total/NA	Water	PrecSep_0	
500-229791-9	MW-15	Total/NA	Water	PrecSep_0	
500-229791-10	MW-17	Total/NA	Water	PrecSep_0	
MB 160-602036/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602036/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-229791-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-601539/1-A
Matrix: Water
Analysis Batch: 604349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601539

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01293	U	0.0321	0.0322	1.00	0.0789	pCi/L	02/24/23 10:00	03/20/23 06:35	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					02/24/23 10:00	03/20/23 06:35	1
	96.6									

Lab Sample ID: LCS 160-601539/2-A
Matrix: Water
Analysis Batch: 604349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601539

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.43		1.25	1.00	0.0740	pCi/L	110	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	30 - 110						
	94.4								

Lab Sample ID: 500-229791-3 DU
Matrix: Water
Analysis Batch: 604351

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 601539

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.114		0.09145	U	0.0811	1.00	0.124	pCi/L	0.15	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	91.5									

Lab Sample ID: MB 160-601827/1-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601827

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008821	U	0.0567	0.0567	1.00	0.110	pCi/L	02/28/23 09:01	03/22/23 10:18	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					02/28/23 09:01	03/22/23 10:18	1
	89.5									

Lab Sample ID: LCS 160-601827/2-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601827

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.40		1.26	1.00	0.107	pCi/L	109	75 - 125

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QC Sample Results

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

Job ID: 500-229791-2

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

Lab Sample ID: LCS 160-601827/2-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601827

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.4		30 - 110

Lab Sample ID: MB 160-602034/1-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602034

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03605	U	0.0486	0.0487	1.00	0.0816	pCi/L	03/01/23 09:47	03/23/23 07:54	1
Carrier	MB	MB	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					03/01/23 09:47	03/23/23 07:54	1

Lab Sample ID: LCS 160-602034/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602034

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.64		1.18	1.00	0.0735	pCi/L	103	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	92.7		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-601540/1-A
Matrix: Water
Analysis Batch: 602334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601540

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.05622	U	0.225	0.226	1.00	0.413	pCi/L	02/24/23 10:32	03/03/23 11:50	1
Carrier	MB	MB	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110					02/24/23 10:32	03/03/23 11:50	1
Y Carrier	88.2		30 - 110					02/24/23 10:32	03/03/23 11:50	1

Lab Sample ID: LCS 160-601540/2-A
Matrix: Water
Analysis Batch: 602334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601540

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.15	9.414		1.25	1.00	0.503	pCi/L	116	75 - 125

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QC Sample Results

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

Job ID: 500-229791-2

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

Lab Sample ID: LCS 160-601540/2-A
Matrix: Water
Analysis Batch: 602334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601540

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.4		30 - 110
Y Carrier	87.9		30 - 110

Lab Sample ID: 500-229791-3 DU
Matrix: Water
Analysis Batch: 602335

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 601540

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	0.470		0.3217	U	0.300	1.00	0.474	pCi/L	0.24	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.5		30 - 110
Y Carrier	94.2		30 - 110

Lab Sample ID: MB 160-601828/1-A
Matrix: Water
Analysis Batch: 602826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601828

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.1520	U	0.310	0.310	1.00	0.540	pCi/L	02/28/23 09:47	03/08/23 12:08	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110	02/28/23 09:47	03/08/23 12:08	1
Y Carrier	83.7		30 - 110	02/28/23 09:47	03/08/23 12:08	1

Lab Sample ID: LCS 160-601828/2-A
Matrix: Water
Analysis Batch: 602861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601828

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual						
Radium-228	8.13	9.861		1.32	1.00	0.512	pCi/L	121	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.4		30 - 110
Y Carrier	85.2		30 - 110

Lab Sample ID: MB 160-602036/1-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602036

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.03918	U	0.338	0.338	1.00	0.613	pCi/L	03/01/23 10:09	03/06/23 12:09	1

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QC Sample Results

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

Job ID: 500-229791-2

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

Lab Sample ID: MB 160-602036/1-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602036

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	88.7		30 - 110
Y Carrier	84.9		30 - 110

Prepared	Analyzed	Dil Fac
03/01/23 10:09	03/06/23 12:09	1
03/01/23 10:09	03/06/23 12:09	1

Lab Sample ID: LCS 160-602036/2-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602036

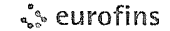
Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.14	9.742		1.30	1.00	0.487	pCi/L	120	75 - 125


Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	92.7		30 - 110
Y Carrier	84.5		30 - 110

Eurofins Chicago

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

Chain of Custody Record



Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-106663-43259 1	
Client Contact: <u>Kaelyn Sperte</u>		Phone: <u>262-278-1621</u>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin: <u>IL</u>		Page: Page 1 of 1	
Company: KPRG and Associates Inc				Analysis Requested				Job #: <u>500-229791</u>	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		 500-229791 COC		Total Number of containers		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): <u>Standard</u>							
State, Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Phone: 262-781-0475(Tel)		PO #: 4502081030							
Email: <u>kaelyn@kprginc.com</u>		WO #:							
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note	
Site: Illinois		SSOW#:		903.0, 904.0		6020A, 7470A			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Preservation Code	
								D D N N	
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1 MW-18		2/21/23		1448		G		Water	
2 MW-19		2/21/23		1336		↓		Water	
3 Duplicate		2/21/23		-		↓		Water	
								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: <u>Kaelyn Sperte</u>		Date/Time: <u>2/21/23/1700</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>2/21/23/1700</u>	
Relinquished by:		Date/Time:		Company:		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>2/22/23 0455</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>2.1+1.1</u>					



WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

INU:

DEPT:

230200010318EXP 09/23



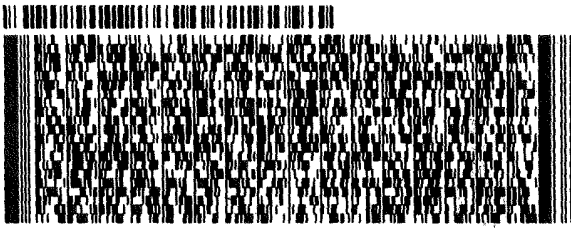
500-229791 Waybi

FedEx
Express



REL#
3785346

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3 of 5

WED - 22 FEB 10:30A

MPS# 0263 3948 9886 1783

PRIORITY OVERNIGHT

Mstr# 3948 9886 1761

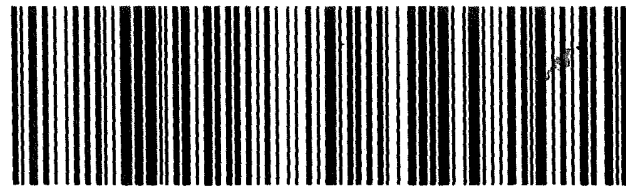
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ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

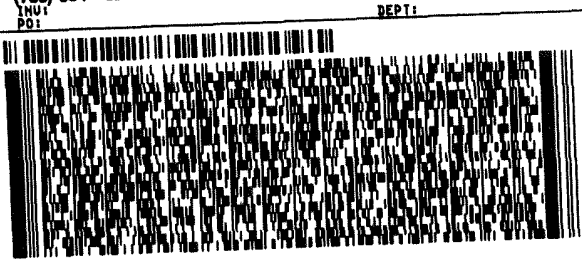
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



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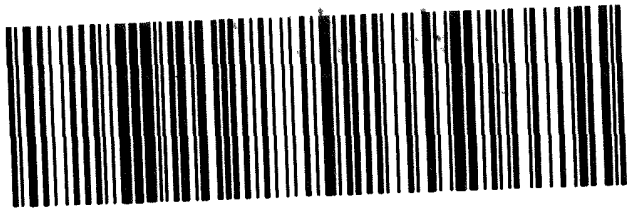
6 of 6
MPS# 3949 9426 6536
0263
Mstr# 3949 9426 6488

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

XN JOTA

0201

AHS
60484
IL-US ORD



Part # 156297 e35e/8202718XP 09/23

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

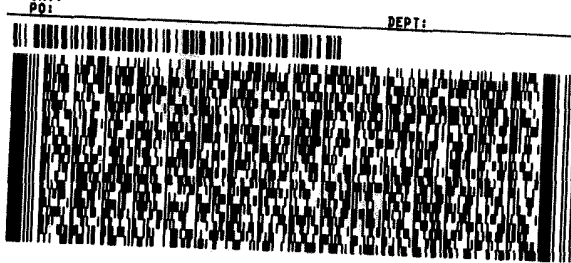
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



MA1011108201E2F

3 of 6
MPS# 3949 9426 6503
0263
Mstr# 3949 9426 6488

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

XN JOTA

0201

AHS
60484
IL-US ORD



Part # 156297 e35e/8202718XP 09/23



500-229791 Waybill

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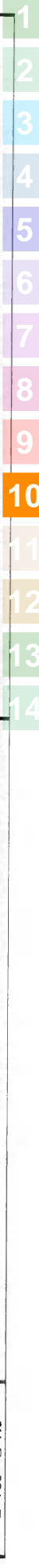
Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Camer Tracking No(s):		COC No:						
Client Contact: Shipping/Receiving		Mockler, Diana J	Mockler, Diana J	State of Origin: Illinois		500-171179-1						
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		Page 1 of 1								
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-229791-2								
City: Earth City	Due Date Requested: 3/14/2023	Analysis Requested										
State, Zip: MO, 63045	TAT Requested (days):											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:											
Email:	WO #:											
Project Name: Powerton CCR - Quarterly (RAD)	Project #: 50011612											
Site: MWG - Powerton	SSOW#:											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sewage, Oil, BT, etc)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228 GFPC	Total Number of Containers	Special Instructions/Note:
MW-01 (500-229791-4)	2/22/23	10:22 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-08 (500-229791-5)	2/22/23	11:41 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: Stephanie Hammond Date/Time: 2/13/23 1515 Company: FEDEX
 Relinquished by: FEDEX Date/Time: 2/13/23 1515 Company: FEDEX
 Relinquished by: Diana Shanley - Manager Date/Time: 2/24/23 0840 Company: ETA572
 Custody Seals Intact: Δ Yes Δ No Custy Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-171204.1																																										
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1																																										
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-229791-1																																										
Address: 13715 Rider Trail North,		Due Date Requested: 3/14/2023	Analysis Requested <table border="1"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>90.0/PreSep_21 Standard Target List</th> <th>90.0/PreSep_0 Standard Target List</th> <th>Ra226Ra228_GFPc</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> </table>	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List		90.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:																																						
X	X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																						
X	X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																						
X	X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																						
X	X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																						
X	X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																						
City: Earth City	TAT Requested (days):	PO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)																																									
State, Zip: MO, 63045	Project #: 50011612	WO #:																																											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	SSOW#:																																												
Email:																																													
Project Name: Powerton CCR - Quarterly																																													
Site: MWG - Powerton																																													
<p>Sample Identification - Client ID (Lab ID)</p> <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=swastick, BT=leasue, A=Al)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr> <td>MW-09 (500-229791-6)</td> <td>2/23/23</td> <td>14:54 Central</td> <td>Water</td> <td>Water</td> <td></td> </tr> <tr> <td>MW-11 (500-229791-7)</td> <td>2/23/23</td> <td>13:36 Central</td> <td>Water</td> <td>Water</td> <td></td> </tr> <tr> <td>MW-12 (500-229791-8)</td> <td>2/23/23</td> <td>12:18 Central</td> <td>Water</td> <td>Water</td> <td></td> </tr> <tr> <td>MW-15 (500-229791-9)</td> <td>2/23/23</td> <td>08:43 Central</td> <td>Water</td> <td>Water</td> <td></td> </tr> <tr> <td>MW-17 (500-229791-10)</td> <td>2/23/23</td> <td>09:39 Central</td> <td>Water</td> <td>Water</td> <td></td> </tr> </tbody> </table>				Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swastick, BT=leasue, A=Al)	Preservation Code:	MW-09 (500-229791-6)	2/23/23	14:54 Central	Water	Water		MW-11 (500-229791-7)	2/23/23	13:36 Central	Water	Water		MW-12 (500-229791-8)	2/23/23	12:18 Central	Water	Water		MW-15 (500-229791-9)	2/23/23	08:43 Central	Water	Water		MW-17 (500-229791-10)	2/23/23	09:39 Central	Water	Water							
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swastick, BT=leasue, A=Al)	Preservation Code:																																								
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MW-12 (500-229791-8)	2/23/23	12:18 Central	Water	Water																																									
MW-15 (500-229791-9)	2/23/23	08:43 Central	Water	Water																																									
MW-17 (500-229791-10)	2/23/23	09:39 Central	Water	Water																																									
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Stephanie Hemminger</i> Date/Time: 2/24/23 1600 Company: <i>EEFA</i></p> <p>Relinquished by: <i>FEDEX</i> Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p>																																													



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,1.4,0.5,-1.1
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: 500-229791-2

Login Number: 229791

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/23/23 12:05 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/27/23 12:20 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/28/23 10:05 AM

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



Lab Chronicle

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

Job ID: 500-229791-2

Client Sample ID: MW-18

Date Collected: 02/21/23 14:48

Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601539	DJP	EET SL	02/24/23 10:00
Total/NA	Analysis	903.0		1	604351	FLC	EET SL	03/20/23 06:43
Total/NA	Prep	PrecSep_0			601540	DJP	EET SL	02/24/23 10:32
Total/NA	Analysis	904.0		1	602335	SCB	EET SL	03/03/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	604835	SCB	EET SL	03/23/23 17:07

Client Sample ID: MW-19

Date Collected: 02/21/23 13:36

Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601539	DJP	EET SL	02/24/23 10:01
Total/NA	Analysis	903.0		1	604351	FLC	EET SL	03/20/23 06:43
Total/NA	Prep	PrecSep_0			601540	DJP	EET SL	02/24/23 10:32
Total/NA	Analysis	904.0		1	602335	SCB	EET SL	03/03/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	604835	SCB	EET SL	03/23/23 17:07

Client Sample ID: Duplicate

Date Collected: 02/21/23 00:00

Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601539	DJP	EET SL	02/24/23 10:01
Total/NA	Analysis	903.0		1	604351	FLC	EET SL	03/20/23 06:43
Total/NA	Prep	PrecSep_0			601540	DJP	EET SL	02/24/23 10:32
Total/NA	Analysis	904.0		1	602335	SCB	EET SL	03/03/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	604835	SCB	EET SL	03/23/23 17:07

Client Sample ID: MW-01

Date Collected: 02/22/23 10:22

Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604715	FLC	EET SL	03/22/23 20:50
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602825	FLC	EET SL	03/08/23 12:01
Total/NA	Analysis	Ra226_Ra228		1	604822	SCB	EET SL	03/23/23 14:26

Lab Chronicle

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

Job ID: 500-229791-2

Client Sample ID: MW-08

Date Collected: 02/22/23 11:41

Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604715	FLC	EET SL	03/22/23 20:50
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602825	FLC	EET SL	03/08/23 12:01
Total/NA	Analysis	Ra226_Ra228		1	604822	SCB	EET SL	03/23/23 14:26

Client Sample ID: MW-09

Date Collected: 02/23/23 14:54

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:11
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Client Sample ID: MW-11

Date Collected: 02/23/23 13:36

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:11
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Client Sample ID: MW-12

Date Collected: 02/23/23 12:18

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:11
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Lab Chronicle

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

Job ID: 500-229791-2

Client Sample ID: MW-15

Date Collected: 02/23/23 08:43

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602567	SCB	EET SL	03/06/23 12:14
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Client Sample ID: MW-17

Date Collected: 02/23/23 09:39

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602567	SCB	EET SL	03/06/23 12:14
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

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 - Quarterly (RAD)

Job ID: 500-229791-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

- 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 - Quarterly (RAD)

Job ID: 500-229791-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	
500-229791-1	MW-18	76.3	
500-229791-2	MW-19	83.1	
500-229791-3	Duplicate	90.4	
500-229791-3 DU	Duplicate	91.5	
500-229791-4	MW-01	86.7	
500-229791-5	MW-08	93.2	
500-229791-6	MW-09	90.1	
500-229791-7	MW-11	69.2	
500-229791-8	MW-12	68.6	
500-229791-9	MW-15	76.8	
500-229791-10	MW-17	87.0	
LCS 160-601539/2-A	Lab Control Sample	94.4	
LCS 160-601827/2-A	Lab Control Sample	88.4	
LCS 160-602034/2-A	Lab Control Sample	92.7	
MB 160-601539/1-A	Method Blank	96.6	
MB 160-601827/1-A	Method Blank	89.5	
MB 160-602034/1-A	Method Blank	88.7	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-229791-1	MW-18	76.3	87.1
500-229791-2	MW-19	83.1	84.9
500-229791-3	Duplicate	90.4	85.2
500-229791-3 DU	Duplicate	91.5	94.2
500-229791-4	MW-01	86.7	83.7
500-229791-5	MW-08	93.2	87.1
500-229791-6	MW-09	90.1	83.7
500-229791-7	MW-11	69.2	81.5
500-229791-8	MW-12	68.6	83.4
500-229791-9	MW-15	76.8	82.6
500-229791-10	MW-17	87.0	84.5
LCS 160-601540/2-A	Lab Control Sample	94.4	87.9
LCS 160-601828/2-A	Lab Control Sample	88.4	85.2
LCS 160-602036/2-A	Lab Control Sample	92.7	84.5
MB 160-601540/1-A	Method Blank	96.6	88.2
MB 160-601828/1-A	Method Blank	89.5	83.7
MB 160-602036/1-A	Method Blank	88.7	84.9

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/21/23
Sample Name	MW-19	Start Time	1321	
Condition of Well	good			
Water Level	25.47	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	Clear	
Volume Removed	6 qts	WL at Sample Time	25.48	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	Clear	
Sample Analysis	CCR ABBASB	Sample Time	1336	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1323	25.47	7.77	13.6	.911	8.97	116.5	2.66
1326	-	7.71	15.4	.932	4.12	119.8	2.15
1329	-	7.77	15.4	.931	2.29	119.6	2.03
1332	-	7.79	15.3	.931	1.65	118.9	1.96
1335	25.48	7.79	15.5	.931	1.35	118.2	2.13

SAMPLING NOTES:

CCR ABBASB Duplicate

Sampler Name and
Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/21/23
Sample Name	MW-18	Start Time	1437	
Condition of Well	good			
Water Level	28.45	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	dark gray tint	
Volume Removed	4 gts.	WL at Sample Time	30.36	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	dark gray tint	
Sample Analysis	CCR ABBASB	Sample Time	1448	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1438	28.45	8.45	13.3	1.707	7.50	106.6	14.41
1441	-	8.09	15.1	1.713	3.39	96.9	42.24
1444	-	8.16	15.2	1.714	2.60	93.0	34.58
1447	30.36	^{KLS} 8.27 8.27	^{KLS} 15.3 15.3	1.712	1.66	73.3	17.88

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/22/23
Sample Name	MW-01	Start Time	1007	
Condition of Well	good			
Water Level	26.91	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	5 gts	WL at Sample Time	26.91	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA, CCR FAB & ABBASB	Sample Time	1022	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1009	26.91	7.68	10.3	.924	8.77	107.9	2.56
1012	-	7.51	11.9	.931	7.23	109.5	5.96
1015	-	7.51	12.0	.926	6.61	110.5	5.61
1018	-	7.51	12.0	.923	6.32	110.9	4.62
1021	26.91	7.51	12.0	.922	6.13	111.8	4.54

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/22/23
Sample Name	MW-08	Start Time	1127	
Condition of Well	good			
Water Level	26.12	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	7 gts	WL at Sample Time	26.12	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA & CCR ABBASB	Sample Time	1141	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1128	26.12	8.52	13.2	1.381	6.97	117.4	7.04
1131	-	7.94	13.8	1.358	3.45	90.5	42.26
1134	-	8.00	13.8	1.339	2.15	-19.1	16.75
1137	-	8.02	13.9	1.334	1.66	-90.3	14.37
1140	-	8.05	13.9	1.336	1.34	-144.1	7.41
1143	-	8.09	14.0	1.339	1.09	-171.2	4.57
1146		8.11	13.8	1.342	1.00	-180.5	4.12

SAMPLING NOTES:

- paused from 1200 - 1220 due to weather (lightning)

Sampler Name and Company:

KPRG and Associates

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PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/23/23
Sample Name	MW-15	Start Time	0828	
Condition of Well	good			
Water Level	25.24	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	cloudy, brown/orange to clear	
Volume Removed	5 gals	WL at Sample Time	25.65	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA, CCR ABBASB & MCB	Sample Time	MCB: 2/23/23 0843 ABBASB: 2/23/23 0813 CCA: 2/24/23/0830	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0830	25.24	8.49	14.4	2.212	7.80	121.0	122.54
0833	-	7.96	14.5	2.028	7.98	124.3	124.1
0836	-	7.64	14.8	2.046	2.09	106.4	33.80
0839	-	7.55	14.9	2.058	1.73	91.0	59.78
0842	25.65	7.52	14.8	2.077	1.61	81.7	21.36

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

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PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/23/23
Sample Name	MW-17	Start Time	0925	
Condition of Well	good			
Water Level	20.12	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	cloudy, brown	
Volume Removed	4.5 gts	WL at Sample Time	23.83	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCP! MCB & ABBASIS	Sample Time	0939	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0926	20.12	8.52	13.9	2.243	6.86	77.9	282.75
0929	-	8.06	14.5	2.317	3.62	79.7	206.00
0932	-	7.93	14.7	2.310	2.18	78.2	64.00
0935	-	7.89	14.6	2.287	1.67	77.4	33.31
0938	23.83	7.87	14.6	2.247	1.35	76.7	20.65

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

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PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	2/23/23
Sample Name	MW-12	Start Time	1203	
Condition of Well	good			
Water Level	21.41	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	cloudy, orange	
Volume Removed	7 gts	WL at Sample Time	21.43	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear w/ orange tint	
Sample Analysis	CCA & CCR ABBASB	Sample Time	1218	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1205	21.41	8.32	10.1	1.287	9.29	83.7	62.76
1208	—	8.14	12.1	1.454	3.98	83.3	399.99
1211	—	8.20	11.5	1.454	2.78	74.1	225.75
1214	—	8.20	11.1	1.453	1.94	57.4	41.95
1217	—	8.19	11.0	1.454	1.62	40.7	35.04
1220	21.43	8.18	11.0	1.454	1.50	31.1	18.01

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

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PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	2/23/23
Sample Name	MW-11	Start Time	1322	
Condition of Well	good			
Water Level	31.65	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	5 gts	WL at Sample Time	31.65	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA & CCR ABBASB	Sample Time	1336	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1323	31.65	8.65	10.6	1.006	9.67	75.4	10.89
1326	-	7.70	14.0	1.404	4.81	87.7	110.58
1329	-	7.68	14.0	1.379	2.79	79.5	44.85
1332	-	7.68	14.4	1.330	2.08	68.3	23.69
1335	31.65	7.70	14.4	1.272	1.55	45.6	14.07

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	2/23/23
Sample Name	MW-09	Start Time	1438	
Condition of Well	good			
Water Level	27.51	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	6 gts	WL at Sample Time	27.51	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA & ^{CCR} ABBASB	Sample Time	1454	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1441	27.51	7.37	15.0	.869	6.01	84.3	7.77
1444	-	7.79	15.5	.872	2.66	83.9	7.48
1447	-	7.88	15.6	.870	1.88	83.3	5.06
1450	-	7.89	15.6	.869	1.56	82.9	4.09
1453	27.51	7.92	15.5	.872	1.27	82.2	3.22

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS