

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 2nd 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
5/17/2023	4.33	
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
5/16/2023	15.52	
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
	2/7/2022	3.54
	6/6/2022	2.35
	8/30/2022	3.56
	11/16/2022	2.02
	2/21/2023	2.13
5/18/2023	2.25	
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
	2/10/2022	14.98
	6/8/2022	8.65
	8/30/2022	9.75
	11/15/2022	12.65
	2/22/2023	4.12
5/17/2023	17.75	

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

Well	Date	Turbidity (NTU)
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
	2/10/2022	9.29
	6/8/2022	77.21
	8/31/2022	66.8
	11/15/2022	36.1
2/23/2023	14.07	
5/16/2023	10.18	
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
	2/10/2022	7.08
	6/8/2022	57.5
	8/31/2022	703.1
	11/15/2022	335.9
2/23/2023	18.01	
5/16/2023	21.37	
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/9/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
	11/16/2022	55.82
2/23/2023	21.36	
5/17/2023	13.90	
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/29/2021	8.86
	2/7/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
	11/16/2022	116.69
2/23/2023	20.65	
5/18/2023	9.92	
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88
	2/8/2022	39.3
	6/6/2022	2.73
	8/30/2022	5.66
	11/16/2022	28.47
2/21/2023	17.88	
5/18/2023	3.04	

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

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JOB DESCRIPTION

Powerton CCR

JOB NUMBER

500-233887-1

Eurofins Chicago

Job Notes

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Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	13
QC Association	14
QC Sample Results	17
Chain of Custody	21
Receipt Checklists	27
Chronicle	28
Certification Summary	31

Case Narrative

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

Job ID: 500-233887-1

Job ID: 500-233887-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-233887-1**

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

Metals

Methods 6020A, 6020B: The initial low level and continuing calibration verification (ICVL/CCVL) associated with batch 500-715021 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

Job ID: 500-233887-1

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

Job ID: 500-233887-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-1	MW-09	Water	05/16/23 15:18	05/17/23 10:00
500-233887-2	MW-11	Water	05/16/23 14:01	05/17/23 10:00
500-233887-3	MW-12	Water	05/16/23 12:57	05/17/23 10:00
500-233887-4	MW-01	Water	05/17/23 12:36	05/18/23 09:40
500-233887-5	MW-08	Water	05/17/23 11:32	05/18/23 09:40
500-233887-6	MW-15	Water	05/17/23 13:48	05/18/23 09:40

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Client Sample Results

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

Job ID: 500-233887-1

Client Sample ID: MW-09
Date Collected: 05/16/23 15:18
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-1
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		05/22/23 09:02	05/24/23 19:39	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:38	1
Barium	0.029		0.0025		mg/L		05/22/23 09:02	05/23/23 22:38	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:38	1
Boron	3.9		0.050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Calcium	70		0.20		mg/L		05/22/23 09:02	05/24/23 19:39	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:38	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:20	1
Molybdenum	0.032		0.0050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:38	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		10		mg/L			05/17/23 21:55	1
Chloride (SM 4500 Cl- E)	30		2.0		mg/L			05/24/23 16:30	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			05/21/23 10:10	1
Sulfate (SM 4500 SO4 E)	130		50		mg/L			05/26/23 14:08	10

Client Sample Results

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

Job ID: 500-233887-1

Client Sample ID: MW-11
Date Collected: 05/16/23 14:01
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-2
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		05/22/23 09:02	05/24/23 19:42	1
Arsenic	0.011		0.0010		mg/L		05/22/23 09:02	05/23/23 22:41	1
Barium	0.18		0.0025		mg/L		05/22/23 09:02	05/23/23 22:41	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:41	1
Boron	2.5		0.050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Calcium	120		0.20		mg/L		05/22/23 09:02	05/24/23 19:42	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Cobalt	0.0018		0.0010		mg/L		05/22/23 09:02	05/23/23 22:41	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:23	1
Molybdenum	0.016		0.0050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:41	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	690		10		mg/L			05/17/23 21:57	1
Chloride (SM 4500 Cl- E)	65		10		mg/L			05/24/23 16:31	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/21/23 10:10	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			05/26/23 14:08	10

Client Sample Results

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

Job ID: 500-233887-1

Client Sample ID: MW-12
Date Collected: 05/16/23 12:57
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3
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		05/22/23 09:02	05/24/23 19:46	1
Arsenic	0.0023		0.0010		mg/L		05/22/23 09:02	05/23/23 22:45	1
Barium	0.043		0.0025		mg/L		05/22/23 09:02	05/23/23 22:45	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:45	1
Boron	0.32		0.050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Calcium	89		0.20		mg/L		05/22/23 09:02	05/24/23 19:46	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:45	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:26	1
Molybdenum	0.013		0.0050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:45	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		10		mg/L			05/17/23 22:00	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			05/24/23 16:31	10
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			05/21/23 10:10	1
Sulfate (SM 4500 SO4 E)	240		100		mg/L			05/26/23 14:08	20

Client Sample Results

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

Job ID: 500-233887-1

Client Sample ID: MW-01

Lab Sample ID: 500-233887-4

Date Collected: 05/17/23 12:36

Matrix: Water

Date Received: 05/18/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:49	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:48	1
Barium	0.056		0.0025		mg/L		05/22/23 09:02	05/23/23 22:48	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:48	1
Boron	0.32		0.050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Calcium	91		0.20		mg/L		05/22/23 09:02	05/24/23 19:49	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:48	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:30	1
Molybdenum	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:48	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10		mg/L			05/22/23 01:02	1
Chloride (SM 4500 Cl- E)	55		4.0		mg/L			05/24/23 16:31	2
Fluoride (SM 4500 F C)	0.12		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	33		10		mg/L			05/26/23 14:09	2

Client Sample Results

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

Job ID: 500-233887-1

Client Sample ID: MW-08

Lab Sample ID: 500-233887-5

Date Collected: 05/17/23 11:32

Matrix: Water

Date Received: 05/18/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:03	1
Arsenic	0.0029		0.0010		mg/L		05/22/23 09:02	05/23/23 22:52	1
Barium	0.13		0.0025		mg/L		05/22/23 09:02	05/23/23 22:52	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:52	1
Boron	0.61		0.050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Calcium	120		0.20		mg/L		05/22/23 09:02	05/24/23 20:03	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:52	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Lithium	0.023		0.010		mg/L		05/22/23 09:02	05/25/23 16:33	1
Molybdenum	0.0077		0.0050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:52	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	720		10		mg/L			05/22/23 01:05	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			05/24/23 16:32	10
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	62		10		mg/L			05/26/23 14:09	2

Client Sample Results

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

Job ID: 500-233887-1

Client Sample ID: MW-15

Lab Sample ID: 500-233887-6

Date Collected: 05/17/23 13:48

Matrix: Water

Date Received: 05/18/23 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:07	1
Arsenic	0.0027		0.0010		mg/L		05/22/23 09:02	05/23/23 23:02	1
Barium	0.075		0.0025		mg/L		05/22/23 09:02	05/23/23 23:02	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:02	1
Boron	1.3		0.050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Calcium	1400		2.0		mg/L		05/22/23 09:02	05/25/23 16:40	10
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Cobalt	0.0012		0.0010		mg/L		05/22/23 09:02	05/23/23 23:02	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Lithium	0.024		0.010		mg/L		05/22/23 09:02	05/25/23 16:37	1
Molybdenum	0.039		0.0050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Selenium	0.18		0.0025		mg/L		05/22/23 09:02	05/23/23 23:02	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2500		10		mg/L			05/22/23 01:07	1
Chloride (SM 4500 Cl- E)	310		20		mg/L			05/24/23 16:32	10
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	850		100		mg/L			05/26/23 14:09	20

Definitions/Glossary

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

Job ID: 500-233887-1

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

Job ID: 500-233887-1

Metals

Prep Batch: 714515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	3005A	
500-233887-2	MW-11	Total Recoverable	Water	3005A	
500-233887-3	MW-12	Total Recoverable	Water	3005A	
500-233887-4	MW-01	Total Recoverable	Water	3005A	
500-233887-5	MW-08	Total Recoverable	Water	3005A	
500-233887-6	MW-15	Total Recoverable	Water	3005A	
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 715021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	6020A	714515
500-233887-2	MW-11	Total Recoverable	Water	6020A	714515
500-233887-3	MW-12	Total Recoverable	Water	6020A	714515
500-233887-4	MW-01	Total Recoverable	Water	6020A	714515
500-233887-5	MW-08	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	6020A	714515
500-233887-2	MW-11	Total Recoverable	Water	6020A	714515
500-233887-3	MW-12	Total Recoverable	Water	6020A	714515
500-233887-4	MW-01	Total Recoverable	Water	6020A	714515
500-233887-5	MW-08	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	6020A	714515
500-233887-2	MW-11	Total Recoverable	Water	6020A	714515
500-233887-3	MW-12	Total Recoverable	Water	6020A	714515
500-233887-4	MW-01	Total Recoverable	Water	6020A	714515
500-233887-5	MW-08	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Prep Batch: 716983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	7470A	
500-233887-2	MW-11	Total/NA	Water	7470A	
500-233887-3	MW-12	Total/NA	Water	7470A	
500-233887-4	MW-01	Total/NA	Water	7470A	
500-233887-5	MW-08	Total/NA	Water	7470A	
500-233887-6	MW-15	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-233887-1

Metals (Continued)

Prep Batch: 716983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 717281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	7470A	716983
500-233887-2	MW-11	Total/NA	Water	7470A	716983
500-233887-3	MW-12	Total/NA	Water	7470A	716983
500-233887-4	MW-01	Total/NA	Water	7470A	716983
500-233887-5	MW-08	Total/NA	Water	7470A	716983
500-233887-6	MW-15	Total/NA	Water	7470A	716983
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	716983
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	716983

General Chemistry

Analysis Batch: 713900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 2540C	
500-233887-2	MW-11	Total/NA	Water	SM 2540C	
500-233887-3	MW-12	Total/NA	Water	SM 2540C	
MB 500-713900/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-713900/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 714420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	SM 2540C	
500-233887-5	MW-08	Total/NA	Water	SM 2540C	
500-233887-6	MW-15	Total/NA	Water	SM 2540C	
MB 500-714420/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-714420/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 714514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 4500 F C	
500-233887-2	MW-11	Total/NA	Water	SM 4500 F C	
500-233887-3	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-714514/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-714514/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 715052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	SM 4500 F C	
500-233887-5	MW-08	Total/NA	Water	SM 4500 F C	
500-233887-6	MW-15	Total/NA	Water	SM 4500 F C	
MB 500-715052/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-715052/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 715089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

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

Job ID: 500-233887-1

General Chemistry (Continued)

Analysis Batch: 715089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-2	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-233887-3	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-233887-4	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-233887-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-233887-6	MW-15	Total/NA	Water	SM 4500 Cl- E	
MB 500-715089/113	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-715089/114	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 715553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-233887-2	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-233887-3	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-233887-4	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-233887-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-233887-6	MW-15	Total/NA	Water	SM 4500 SO4 E	
MB 500-715553/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-715553/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-233887-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Barium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Boron	<0.050		0.050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Molybdenum	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:21	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:19	1
Calcium	<0.20		0.20		mg/L		05/22/23 09:02	05/24/23 19:19	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:13	1

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	0.100	0.0987		mg/L		99	80 - 120
Barium	2.00	1.98		mg/L		99	80 - 120
Beryllium	0.0500	0.0541	^+ ^1+	mg/L		108	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.885		mg/L		88	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.0978		mg/L		98	80 - 120

QC Sample Results

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

Job ID: 500-233887-1

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

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.485		mg/L		97	80 - 120
Calcium	10.0	8.73		mg/L		87	80 - 120

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.486		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-716983/12-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:18	1

Lab Sample ID: LCS 500-716983/13-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00202		mg/L		102	80 - 120

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

Lab Sample ID: MB 500-713900/1
Matrix: Water
Analysis Batch: 713900

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			05/17/23 21:14	1

Lab Sample ID: LCS 500-713900/2
Matrix: Water
Analysis Batch: 713900

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Lab Sample ID: MB 500-714420/1
Matrix: Water
Analysis Batch: 714420

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			05/22/23 00:24	1

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QC Sample Results

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

Job ID: 500-233887-1

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

Lab Sample ID: LCS 500-714420/2
Matrix: Water
Analysis Batch: 714420

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-715089/113
Matrix: Water
Analysis Batch: 715089

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			05/24/23 16:30	1

Lab Sample ID: LCS 500-715089/114
Matrix: Water
Analysis Batch: 715089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-714514/31
Matrix: Water
Analysis Batch: 714514

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			05/21/23 10:10	1

Lab Sample ID: LCS 500-714514/32
Matrix: Water
Analysis Batch: 714514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.96		mg/L		100	90 - 119

Lab Sample ID: MB 500-715052/3
Matrix: Water
Analysis Batch: 715052

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			05/24/23 08:35	1

Lab Sample ID: LCS 500-715052/4
Matrix: Water
Analysis Batch: 715052

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

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QC Sample Results

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

Job ID: 500-233887-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-715553/16
Matrix: Water
Analysis Batch: 715553

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			05/26/23 14:07	1

Lab Sample ID: LCS 500-715553/17
Matrix: Water
Analysis Batch: 715553

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	20.2		mg/L		101	88 - 123



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

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperle</u>		Lab PM: <u>Mockler Diana J</u>		Carrier Tracking No(s):		800-233887 COC 1	
Client Contact: Kaelyn Sperle		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>		Page 1 of 1	
Company: KPRG and Associates, Inc				PWSID:		Analysis Requested			
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		TAT Requested (days): <u>Standard</u>		Job #: <u>233887</u>		Preservation Codes	
City: Brookfield		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 4502125100		903.0, 904.0		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	
State, Zip: WI, 53005		Project #: 50011612		WO #:		6020A, 7470A		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)	
Phone: 262-781-0475(Tel)		SSOW#:		Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		2540C, 4500_F_C, SM4500_CLE		Other:	
Email: kaelyns@kprginc.com		Site: Illinois		Project #: 50011612		SM4500_SO4_E - Sulfate			
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site: Illinois		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
		MW-01							
		MW-08							
		MW-09		5/16/23 1518		G		Water	
		MW-11		5/16/23 1401		↓		Water	
		MW-12		5/16/23 1257		↓		Water	
		MW-15						Water	
		MW-17						Water	
		MW-18						Water	
		MW-19						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: <u>Kaelyn Sperle</u>		Date/Time: 5/16/23/1700		Company: KPRG		Received by: <u>FedEx</u>		Date/Time: 5/16/23/1700	
Relinquished by:		Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time: 5/16/23 1000	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact:		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <u>5.4-5.3</u>					
<input type="checkbox"/> Yes <input type="checkbox"/> No									

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Eurofins Chicago

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

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s): <u>500-233887 COC 31</u>																																																														
Client Contact: <u>Kaelyn Sperte</u>		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>																																																														
Company: <u>KPRG and Associates, Inc</u>		PWSID:		Analysis Requested																																																																
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>																																																																		
City: <u>Brookfield</u>		TAT Requested (days): <u>standard</u>		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform M/MS/SD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CLE</td> <td>SM4500_SO4_E - Sulfate</td> <td rowspan="10">Total Number of containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate	Total Number of containers																																																						
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Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: <u>4502125100</u>		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) Other:																																																																
Project Name: <u>Powerton CCR Event Desc Quarterly Powerton CCR Sampling</u>		Project #: <u>50011612</u>																																																																		
Site: <u>Illinois</u>		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)		Field Filtered Sample (Yes or No)		Perform M/MS/SD (Yes or No)		Special Instructions/Note:																																																		
MW-01		5/17/23						1236		G		Water		XX		XX		XX																																																		
MW-08		5/17/23						1132		G		Water		XX		XX		XX																																																		
MW-09												Water																																																								
MW-11												Water																																																								
MW-12												Water																																																								
MW-15		5/17/23						1348		G		Water		XX		XX		XX																																																		
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Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																																														
Relinquished by: <u>Kaelyn Sperte</u>		Date/Time: <u>5/17/23/1730</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>5/17/23/1730</u>		Company: <u>FedEx</u>																																																										
Relinquished by:		Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>5/18/23 0840</u>		Company:																																																										
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																																																										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>																																																																

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Eurofins Chicago

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

Chain of Custody Record



eurofins | Environment Testing

Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COG No: 500-112087-46458 1																						
Client Contact: Kaelyn Sperle		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurotinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1																						
Company KPRG and Associates, Inc		PWSID	Analysis Requested																								
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>	<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_C1E</td> <td>SM4500_SO4_E - Sulfate</td> </tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate																
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City: Brookfield		TAT Requested (days) <i>Standard</i>																									
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																									
Phone 262-781-0475(Tel)		PO # 4502125100																									
Email kaelyns@kprginc.com		WO #																									
Project Name: <i>ABBASB</i> 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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate	Total Number of containers:	Job # <i>500-233887</i>														
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						X	X	D	D	N	N		Special Instructions/Note:														
MW-01					Water																						
MW-02					Water																						
MW-09					Water																						
MW-11					Water																						
MW-12					Water																						
MW-15		<i>X</i>			Water																						
<i>78910</i> MW-17		<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water	<i>M</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>																
MW-18		<i>5/18/23</i>	<i>1234</i>		Water	<i>M</i>	<i>N</i>																				
MW-19		<i>5/18/23</i>	<i>1441</i>		Water	<i>N</i>	<i>N</i>																				
<i>10</i> Duplicate		<i>5/18/23</i>	<i>-</i>		Water	<i>N</i>	<i>N</i>																				
					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>5/18/23/1715</i>			Company: <i>KPRG</i>			Received by: <i>FedEx</i>																		
Relinquished by:			Date/Time:			Company:			Received by:																		
Relinquished by:			Date/Time:			Company:			Received by: <i>Kaelyn Sperle</i>																		
Relinquished by:			Date/Time:			Company:			Received by: <i>5/18/23 1000</i>																		
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>-2.4 - -2.0</i>																							

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-438344388-23795/2

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



UNIVERSITY PARK IL 60

(000) 000-0000

REF

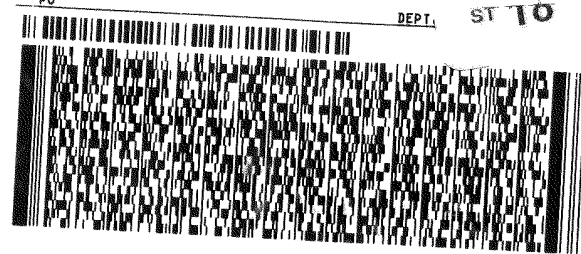
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ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETRES

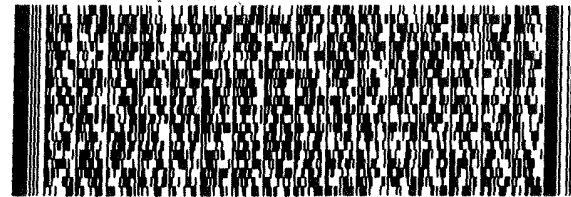
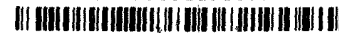
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UNIVERSITY PARK IL 60484

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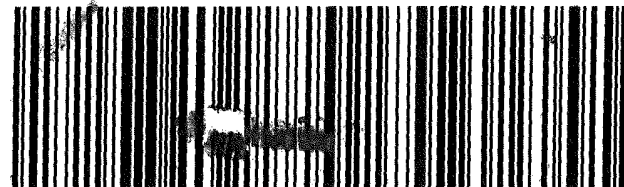
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Do Not Lift Using This Tag

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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

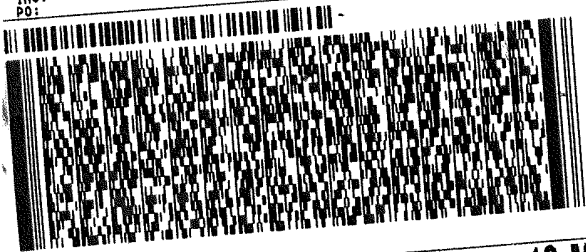
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BILL THIRD PARTY

Part # 150297-485JPR88-836811/23

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PRIORITY OVERNIGHT

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KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
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BILL THIRD PARTY

Part # 150297-485JPR88-836811/23

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-1

Login Number: 233887

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-233887-1

Client Sample ID: MW-09
Date Collected: 05/16/23 15:18
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:38
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:39
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:20
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:22
Total/NA	Analysis	SM 2540C		1	713900	CLB	EET CHI	05/17/23 21:55
Total/NA	Analysis	SM 4500 CI- E		1	715089	MM	EET CHI	05/24/23 16:30
Total/NA	Analysis	SM 4500 F C		1	714514	EH	EET CHI	05/21/23 10:10
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:08

Client Sample ID: MW-11
Date Collected: 05/16/23 14:01
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:41
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:42
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:23
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:24
Total/NA	Analysis	SM 2540C		1	713900	CLB	EET CHI	05/17/23 21:57
Total/NA	Analysis	SM 4500 CI- E		5	715089	MM	EET CHI	05/24/23 16:31
Total/NA	Analysis	SM 4500 F C		1	714514	EH	EET CHI	05/21/23 10:10
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:08

Client Sample ID: MW-12
Date Collected: 05/16/23 12:57
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:45
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:46
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:26
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:26

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-233887-1

Client Sample ID: MW-12
Date Collected: 05/16/23 12:57
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	713900	CLB	EET CHI	05/17/23 22:00
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:31
Total/NA	Analysis	SM 4500 F C		1	714514	EH	EET CHI	05/21/23 10:10
Total/NA	Analysis	SM 4500 SO4 E		20	715553	MM	EET CHI	05/26/23 14:08

Client Sample ID: MW-01
Date Collected: 05/17/23 12:36
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:48
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:49
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:30
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:28
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:02
Total/NA	Analysis	SM 4500 CI- E		2	715089	MM	EET CHI	05/24/23 16:31
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		2	715553	MM	EET CHI	05/26/23 14:09

Client Sample ID: MW-08
Date Collected: 05/17/23 11:32
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:52
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:03
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:33
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:30
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:05
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		2	715553	MM	EET CHI	05/26/23 14:09

Lab Chronicle

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

Job ID: 500-233887-1

Client Sample ID: MW-15

Lab Sample ID: 500-233887-6

Date Collected: 05/17/23 13:48

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:02
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:07
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:37
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		10	715492	FXG	EET CHI	05/25/23 16:40
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:33
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:07
Total/NA	Analysis	SM 4500 Cl- E		10	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		20	715553	MM	EET CHI	05/26/23 14:09

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-233887-1

Laboratory: Eurofins Chicago

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

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/21/2023 4:23:08 PM

JOB DESCRIPTION

Powerton CCR (RAD)

JOB NUMBER

500-233887-2

Eurofins Chicago

Job Notes

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Authorization



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Authorized for release by
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(219)252-7570



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	13
QC Association	14
QC Sample Results	15
Chain of Custody	18
Receipt Checklists	26
Chronicle	29
Certification Summary	31
Tracer Carrier Summary	32

Case Narrative

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

Job ID: 500-233887-2

Job ID: 500-233887-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-233887-2

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

RAD

Method 903.0: Radium-226 batch 613094

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 (500-233887-1), MW-11 (500-233887-2), MW-12 (500-233887-3), (LCS 160-613094/2-A), (MB 160-613094/1-A) and (500-233887-F-3-A DU)

Methods 903.0, 9315: Radium-226 batch 613260

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 (500-233887-4), MW-08 (500-233887-5), MW-15 (500-233887-6), (LCS 160-613260/2-A), (MB 160-613260/1-A) and (500-233887-G-4-B DU)

Method 904.0: Radium-228 batch 613098

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 (500-233887-1), MW-11 (500-233887-2), MW-12 (500-233887-3), (LCS 160-613098/2-A), (MB 160-613098/1-A) and (500-233887-F-3-B DU)

Methods 904.0, 9320: Radium-228 batch 613360

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 (500-233887-4), MW-08 (500-233887-5), MW-15 (500-233887-6), (LCS 160-613360/2-A), (MB 160-613360/1-A) and (500-233887-G-4-C DU)

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.

Method Summary

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

Job ID: 500-233887-2

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 (RAD)

Job ID: 500-233887-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-1	MW-09	Water	05/16/23 15:18	05/17/23 10:00
500-233887-2	MW-11	Water	05/16/23 14:01	05/17/23 10:00
500-233887-3	MW-12	Water	05/16/23 12:57	05/17/23 10:00
500-233887-4	MW-01	Water	05/17/23 12:36	05/18/23 09:40
500-233887-5	MW-08	Water	05/17/23 11:32	05/18/23 09:40
500-233887-6	MW-15	Water	05/17/23 13:48	05/18/23 09:40

- 1
- 2
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- 12
- 13
- 14

Client Sample Results

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

Job ID: 500-233887-2

Client Sample ID: MW-09

Lab Sample ID: 500-233887-1

Date Collected: 05/16/23 15:18

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.144	0.144	1.00	0.228	pCi/L	05/25/23 10:10	06/20/23 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					05/25/23 10:10	06/20/23 08:18	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	0.000	U	0.282	0.282	1.00	0.534	pCi/L	05/25/23 10:14	06/19/23 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					05/25/23 10:14	06/19/23 14:37	1
Y Carrier	85.6		30 - 110					05/25/23 10:14	06/19/23 14:37	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	0.129	U	0.317	0.317	5.00	0.534	pCi/L		06/21/23 11:14	1

Client Sample Results

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

Job ID: 500-233887-2

Client Sample ID: MW-11

Lab Sample ID: 500-233887-2

Date Collected: 05/16/23 14:01

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206	U	0.189	0.190	1.00	0.290	pCi/L	05/25/23 10:10	06/20/23 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					05/25/23 10:10	06/20/23 08:18	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	0.0336	U	0.338	0.338	1.00	0.625	pCi/L	05/25/23 10:14	06/19/23 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					05/25/23 10:14	06/19/23 14:38	1
Y Carrier	80.4		30 - 110					05/25/23 10:14	06/19/23 14:38	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	0.239	U	0.387	0.388	5.00	0.625	pCi/L		06/21/23 11:14	1

Client Sample Results

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

Job ID: 500-233887-2

Client Sample ID: MW-12

Lab Sample ID: 500-233887-3

Date Collected: 05/16/23 12:57

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0828	U	0.160	0.160	1.00	0.285	pCi/L	05/25/23 10:10	06/20/23 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					05/25/23 10:10	06/20/23 08:18	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	0.245	U	0.349	0.350	1.00	0.588	pCi/L	05/25/23 10:14	06/19/23 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					05/25/23 10:14	06/19/23 14:38	1
Y Carrier	83.0		30 - 110					05/25/23 10:14	06/19/23 14:38	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	0.328	U	0.384	0.385	5.00	0.588	pCi/L		06/21/23 11:14	1

Client Sample Results

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

Job ID: 500-233887-2

Client Sample ID: MW-01
Date Collected: 05/17/23 12:36
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-4
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	0.129	U	0.158	0.159	1.00	0.259	pCi/L	05/26/23 09:29	06/20/23 22:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					05/26/23 09:29	06/20/23 22:35	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	0.153	U	0.284	0.285	1.00	0.493	pCi/L	05/26/23 13:14	06/20/23 11:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					05/26/23 13:14	06/20/23 11:17	1
Y Carrier	80.4		30 - 110					05/26/23 13:14	06/20/23 11:17	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	0.282	U	0.325	0.326	5.00	0.493	pCi/L		06/21/23 15:27	1

Client Sample Results

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

Job ID: 500-233887-2

Client Sample ID: MW-08

Lab Sample ID: 500-233887-5

Date Collected: 05/17/23 11:32

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.350		0.209	0.211	1.00	0.267	pCi/L	05/26/23 09:29	06/20/23 22:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					05/26/23 09:29	06/20/23 22:35	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	0.365	U	0.328	0.330	1.00	0.519	pCi/L	05/26/23 13:14	06/20/23 11:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					05/26/23 13:14	06/20/23 11:21	1
Y Carrier	83.0		30 - 110					05/26/23 13:14	06/20/23 11:21	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	0.714		0.389	0.392	5.00	0.519	pCi/L		06/21/23 15:27	1

Client Sample Results

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

Job ID: 500-233887-2

Client Sample ID: MW-15

Lab Sample ID: 500-233887-6

Date Collected: 05/17/23 13:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0106	U	0.126	0.126	1.00	0.265	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					05/26/23 09:29	06/20/23 22:37	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	0.279	U	0.327	0.328	1.00	0.538	pCi/L	05/26/23 13:14	06/20/23 11:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					05/26/23 13:14	06/20/23 11:21	1
Y Carrier	84.9		30 - 110					05/26/23 13:14	06/20/23 11:21	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	0.290	U	0.350	0.351	5.00	0.538	pCi/L		06/21/23 15:27	1

Definitions/Glossary

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

Job ID: 500-233887-2

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 (RAD)

Job ID: 500-233887-2

Rad

Prep Batch: 613094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	PrecSep-21	
500-233887-2	MW-11	Total/NA	Water	PrecSep-21	
500-233887-3	MW-12	Total/NA	Water	PrecSep-21	
MB 160-613094/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-613094/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-233887-3 DU	MW-12	Total/NA	Water	PrecSep-21	

Prep Batch: 613098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	PrecSep_0	
500-233887-2	MW-11	Total/NA	Water	PrecSep_0	
500-233887-3	MW-12	Total/NA	Water	PrecSep_0	
MB 160-613098/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-613098/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-233887-3 DU	MW-12	Total/NA	Water	PrecSep_0	

Prep Batch: 613260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	PrecSep-21	
500-233887-5	MW-08	Total/NA	Water	PrecSep-21	
500-233887-6	MW-15	Total/NA	Water	PrecSep-21	
MB 160-613260/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-613260/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-233887-4 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 613360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	PrecSep_0	
500-233887-5	MW-08	Total/NA	Water	PrecSep_0	
500-233887-6	MW-15	Total/NA	Water	PrecSep_0	
MB 160-613360/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-613360/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-233887-4 DU	MW-01	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-233887-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-613094/1-A
Matrix: Water
Analysis Batch: 616862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613094

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.003634	U	0.101	0.101	1.00	0.218	pCi/L	05/25/23 10:10	06/20/23 08:13	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	90.5		30 - 110					05/25/23 10:10	06/20/23 08:13	1

Lab Sample ID: LCS 160-613094/2-A
Matrix: Water
Analysis Batch: 616862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613094

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.528		1.19	1.00	0.208	pCi/L	84	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	93.4		30 - 110					05/25/23 10:10	06/20/23 08:13

Lab Sample ID: 500-233887-3 DU
Matrix: Water
Analysis Batch: 616862

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 613094

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0828	U	0.1925	U	0.173	1.00	0.257	pCi/L	0.33	1
Carrier	DU %Yield	DU Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	87.5		30 - 110					05/25/23 10:10	06/20/23 08:13	1

Lab Sample ID: MB 160-613260/1-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613260

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03010	U	0.129	0.129	1.00	0.292	pCi/L	05/26/23 09:29	06/20/23 20:52	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	87.0		30 - 110					05/26/23 09:29	06/20/23 20:52	1

Lab Sample ID: LCS 160-613260/2-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613260

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.751		1.28	1.00	0.348	pCi/L	86	75 - 125

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QC Sample Results

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

Job ID: 500-233887-2

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

Lab Sample ID: LCS 160-613260/2-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613260

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.4		30 - 110

Lab Sample ID: 500-233887-4 DU
Matrix: Water
Analysis Batch: 616862

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 613260

Analyte	Sample		DU	DU	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-226	0.129	U	0.009911	U	0.144	1.00	0.291	pCi/L	0.39	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.3		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-613098/1-A
Matrix: Water
Analysis Batch: 616572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613098

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.4105	U	0.369	0.370	1.00	0.584	pCi/L	05/25/23 10:14	06/19/23 14:27	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier				
Ba Carrier	90.5		30 - 110	05/25/23 10:14	06/19/23 14:27	1
Y Carrier	84.1		30 - 110	05/25/23 10:14	06/19/23 14:27	1

Lab Sample ID: LCS 160-613098/2-A
Matrix: Water
Analysis Batch: 616572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613098

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.4		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 500-233887-3 DU
Matrix: Water
Analysis Batch: 616575

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 613098

Analyte	Sample		DU	DU	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.245	U	0.2001	U	0.317	1.00	0.540	pCi/L	0.07	1

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QC Sample Results

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

Job ID: 500-233887-2

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

Lab Sample ID: 500-233887-3 DU
Matrix: Water
Analysis Batch: 616575

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 613098

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.5		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: MB 160-613360/1-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613360

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.1566	U	0.299	0.299	1.00	0.517	pCi/L	05/26/23 13:14	06/20/23 11:15	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	87.0		30 - 110	05/26/23 13:14	06/20/23 11:15	1
Y Carrier	86.4		30 - 110	05/26/23 13:14	06/20/23 11:15	1

Lab Sample ID: LCS 160-613360/2-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613360

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.4		30 - 110
Y Carrier	88.2		30 - 110

Lab Sample ID: 500-233887-4 DU
Matrix: Water
Analysis Batch: 616863

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 613360

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.153	U	0.3729	U	0.352	1.00	0.560	pCi/L	0.34	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.3		30 - 110
Y Carrier	80.7		30 - 110

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

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-233887 COC 31	
Client Contact: Kaelyn Sperte		Phone: <u>262-278-1621</u>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin: <u>IL</u>	
Company: KPRG and Associates, Inc		PWSID:		Analysis Requested		Page 1 of 1 Job #: <u>500-233887</u>	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		Field Filtered Sample (Yes or No) Perform M/MS/SD (Yes or No) 903.0, 904.0 6020A, 7470A 2540C, 4500_F_C, SM4500_CLE SM4500_SO4_E - Sulfate		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 type="checkbox"/> No					
Phone: 262-781-0475(Tel)		PO #: 4502125100					
Email: kaelyns@kprginc.com		WO #:					
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		Total Number of containers		Special Instructions/Note:	
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)		
				Preservation Code			
4 MW-01	5/17/23	1236	G	Water		X	X
5 MW-08	5/17/23	1132	G	Water		X	X
MW-09				Water			
MW-11				Water			
MW-12				Water			
6 MW-15	5/17/23	1348	G	Water		X	X
MW-17				Water			
MW-18				Water			
MW-19				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>5/17/23/1730</u>	Company: <u>KPRG</u>	Received by: <u>FedEx</u>		Date/Time: <u>5/17/23/1730</u>	Company: <u>FedEx</u>
Relinquished by:		Date/Time:	Company:	Received by: <u>[Signature]</u>		Date/Time: <u>5/18/23 0840</u>	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>			

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

Chain of Custody Record



eurofins | Environment Testing

Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COG No: 500-112087-46458 1																																																																																																																																																																																																																																																																																																																																
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Quarterly Powerton CCR Sampling</td> <td>Project #: 50011612</td> </tr> <tr> <td colspan="2">Site: Illinois</td> <td>SSOW#:</td> <td colspan="3" rowspan="2"> Special Instructions/Note: </td> </tr> <tr> <td colspan="2"> </td> <td> </td> </tr> <tr> <td colspan="2">Sample Identification</td> <td>Sample Date</td> <td>Sample Time</td> <td>Sample Type (C=Comp, G=grab)</td> <td>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</td> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CL</td> <td>SM4500_SO4_E - Sulfate</td> <td>Total Number of containers:</td> <td>Special Instructions/Note:</td> </tr> <tr> <td colspan="2">MW-01</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-02</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-09</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-11</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-12</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-15</td> <td><i>X</i></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><i>78910</i> MW-17</td> <td><i>5/18/23</i></td> <td><i>1337</i></td> <td><i>G</i></td> <td>Water</td> <td><i>M</i></td> <td><i>N</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-18</td> <td><i>5/18/23</i></td> <td><i>1234</i></td> <td></td> <td>Water</td> <td><i>M</i></td> <td><i>N</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">MW-19</td> <td><i>5/18/23</i></td> <td><i>1441</i></td> <td></td> <td>Water</td> <td><i>N</i></td> <td><i>N</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><i>10 Duplicate</i></td> <td><i>5/18/23</i></td> <td><i>-</i></td> <td></td> <td>Water</td> <td><i>N</i></td> <td><i>N</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"> </td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6">Possible Hazard Identification</td> <td colspan="6">Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</td> </tr> <tr> <td colspan="6"> <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 </td> <td colspan="6"> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months </td> </tr> <tr> <td colspan="6">Deliverable Requested I, II, III, IV, Other (specify)</td> <td colspan="6">Special Instructions/QC Requirements</td> </tr> <tr> <td colspan="2">Empty Kit Relinquished by</td> <td colspan="2">Date</td> <td colspan="2">Time</td> <td colspan="6">Method of Shipment:</td> </tr> <tr> <td colspan="2">Relinquished by: <i>Kaelyn Sperle</i></td> <td colspan="2">Date/Time: <i>5/18/23/1715</i></td> <td colspan="2">Company: <i>KPRG</i></td> <td colspan="2">Received by: <i>FedEx</i></td> <td colspan="2">Date/Time: <i>5/18/23/1715</i></td> <td colspan="2">Company: <i>FedEx</i></td> </tr> <tr> <td colspan="2">Relinquished by:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Company:</td> <td colspan="2">Received by:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Company:</td> </tr> <tr> <td colspan="2">Relinquished by:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Company:</td> <td colspan="2">Received by: <i>Kaelyn Sperle</i></td> <td colspan="2">Date/Time: <i>5/18/23 1000</i></td> <td colspan="2">Company:</td> </tr> <tr> <td colspan="2">Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="2">Custody Seal No</td> <td colspan="8">Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i></td> </tr> </table>			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 - Na2SO3	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	Job #: <i>500-233887</i>			Phone 262-781-0475(Tel)		PO # 4502125100	Email kaelyns@kprginc.com		WO #	Other: 			Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612	Site: Illinois		SSOW#:	Special Instructions/Note: 						Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CL	SM4500_SO4_E - Sulfate	Total Number of containers:	Special Instructions/Note:	MW-01					Water									MW-02					Water									MW-09					Water									MW-11					Water									MW-12					Water									MW-15		<i>X</i>			Water									<i>78910</i> MW-17		<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water	<i>M</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			MW-18		<i>5/18/23</i>	<i>1234</i>		Water	<i>M</i>	<i>N</i>							MW-19		<i>5/18/23</i>	<i>1441</i>		Water	<i>N</i>	<i>N</i>							<i>10 Duplicate</i>		<i>5/18/23</i>	<i>-</i>		Water	<i>N</i>	<i>N</i>												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>5/18/23/1715</i>		Company: <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time: <i>5/18/23/1715</i>		Company: <i>FedEx</i>		Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Relinquished by:		Date/Time:		Company:		Received by: <i>Kaelyn Sperle</i>		Date/Time: <i>5/18/23 1000</i>		Company:		Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>							
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ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-43834498-23795/2

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



UNIVERSITY PARK IL 60

(000) 000-0000

REF

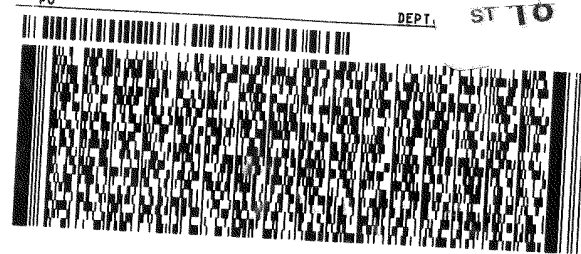
500-233887 Waybl

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**FedEx
Express**



1 of 4

TRK# 3983 9576 9626
0201

MASTER

**WED - 17 MAY 10:30A
PRIORITY OVERNIGHT**

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IL-US ORD





500-233887 Waybi

ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETRES

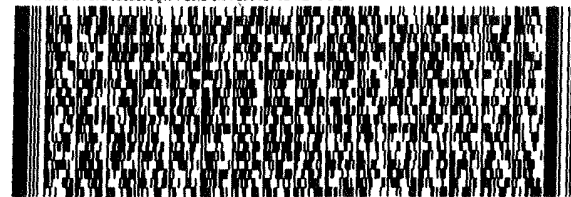
TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INU:
PO:

REF:

DEPT:



FedEx
Express



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4 of 5

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0263

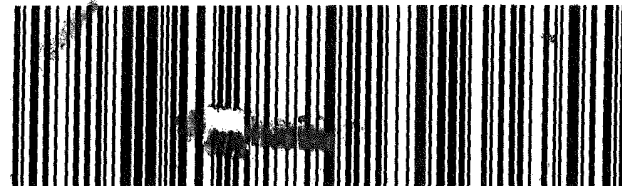
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THU - 18 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



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Do Not Lift Using This Tag

RT 519
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5 10:30
A 7:203
05 19

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

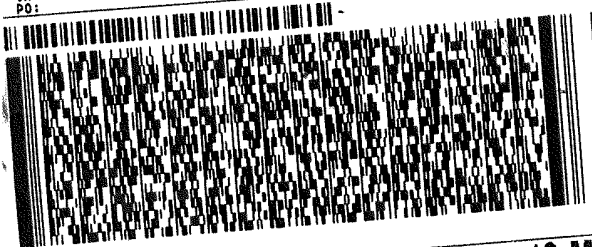
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ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-836311/23

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

2 of 3
MPS# 3984 9766 7203
0263
Mstr# 3984 9766 7199
0201

XN JOTA

60484
IL-US ORD



Do Not Lift Using This Tag

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-836311/23

TO SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK I

RT 519
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5 10:30
A 7:199
05 19

(000) 000-0000 REF:



1 of 3
TRK# 3984 9766 7199
0201
MASTER

FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



500-233887 Waybl



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-173985.1									
Client Contact: Diana.Mockler@et.eurofins.com		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1									
Shipping/Receiving		State of Origin: Illinois		COC No: 500-173985.1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-233887-2									
Address: 13715 Rider Trail North,		Due Date Requested: 6/19/2023		Preservation Codes:									
City: Earth City		TAT Requested (days):		A - HCL M - Hexane N - None O - AsNaO2 P - Na2OAS Q - NaZSO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA Z - other (specify)									
State, Zip: MO, 63045		PO #:		Other:									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:											
Email:		Project #:											
Project Name: Powerton CCR (RAD)		50011612											
Site: MWG - Powerton		SSOW#:											
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PreSep_0 Standard Target List	904.0/PreSep_21 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
MW-09 (500-233887-1)			5/16/23	15:18 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-11 (500-233887-2)			5/16/23	14:01 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-12 (500-233887-3)			5/16/23	12:57 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
<p>Possible Hazard Identification</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Primary Deliverable Rank: 2</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p>													
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Ann Smith</i> Date: 5/17/23 1510 Company: Fedex</p> <p>Relinquished by: <i>Fedex</i> Date: 5/17/23 1510 Company: Fedex</p> <p>Relinquished by: Date: Company:</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.:</p>													
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Method of Shipment:</p> <p>Received by: <i>Fedex</i> Date/Time: Company:</p> <p>Received by: <i>Cond Rossell</i> Date/Time: <i>08:45 MAY 18 2023</i> Company: <i>EIA STL</i></p> <p>Received by: Date/Time: Company:</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>													



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-2

Login Number: 233887

List Number: 1

Creator: James, Jeff A

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	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	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: 500-233887-2

Login Number: 233887

List Number: 2

Creator: Farrell, Conor P

List Source: Eurofins St. Louis

List Creation: 05/18/23 01:47 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: 500-233887-2

Login Number: 233887

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 05/22/23 06:02 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	

Lab Chronicle

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

Job ID: 500-233887-2

Client Sample ID: MW-09

Date Collected: 05/16/23 15:18

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613094	KAC	EET SL	05/25/23 10:10
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 08:18
Total/NA	Prep	PrecSep_0			613098	KAC	EET SL	05/25/23 10:14
Total/NA	Analysis	904.0		1	616575	FLC	EET SL	06/19/23 14:37
Total/NA	Analysis	Ra226_Ra228		1	616996	SCB	EET SL	06/21/23 11:14

Client Sample ID: MW-11

Date Collected: 05/16/23 14:01

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613094	KAC	EET SL	05/25/23 10:10
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 08:18
Total/NA	Prep	PrecSep_0			613098	KAC	EET SL	05/25/23 10:14
Total/NA	Analysis	904.0		1	616575	FLC	EET SL	06/19/23 14:38
Total/NA	Analysis	Ra226_Ra228		1	616996	SCB	EET SL	06/21/23 11:14

Client Sample ID: MW-12

Date Collected: 05/16/23 12:57

Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613094	KAC	EET SL	05/25/23 10:10
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 08:18
Total/NA	Prep	PrecSep_0			613098	KAC	EET SL	05/25/23 10:14
Total/NA	Analysis	904.0		1	616575	FLC	EET SL	06/19/23 14:38
Total/NA	Analysis	Ra226_Ra228		1	616996	SCB	EET SL	06/21/23 11:14

Client Sample ID: MW-01

Date Collected: 05/17/23 12:36

Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:35
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616868	FLC	EET SL	06/20/23 11:17
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Lab Chronicle

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

Job ID: 500-233887-2

Client Sample ID: MW-08
Date Collected: 05/17/23 11:32
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:35
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:21
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: MW-15
Date Collected: 05/17/23 13:48
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:21
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

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 (RAD)

Job ID: 500-233887-2

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
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Tracer/Carrier Summary

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

Job ID: 500-233887-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-233887-1	MW-09	90.0
500-233887-2	MW-11	87.0
500-233887-3	MW-12	86.4
500-233887-3 DU	MW-12	87.5
500-233887-4	MW-01	91.6
500-233887-4 DU	MW-01	91.3
500-233887-5	MW-08	92.1
500-233887-6	MW-15	94.1
LCS 160-613094/2-A	Lab Control Sample	93.4
LCS 160-613260/2-A	Lab Control Sample	85.4
MB 160-613094/1-A	Method Blank	90.5
MB 160-613260/1-A	Method Blank	87.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-233887-1	MW-09	90.0	85.6
500-233887-2	MW-11	87.0	80.4
500-233887-3	MW-12	86.4	83.0
500-233887-3 DU	MW-12	87.5	83.0
500-233887-4	MW-01	91.6	80.4
500-233887-4 DU	MW-01	91.3	80.7
500-233887-5	MW-08	92.1	83.0
500-233887-6	MW-15	94.1	84.9
LCS 160-613098/2-A	Lab Control Sample	93.4	82.2
LCS 160-613360/2-A	Lab Control Sample	85.4	88.2
MB 160-613098/1-A	Method Blank	90.5	84.1
MB 160-613360/1-A	Method Blank	87.0	86.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

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

Generated 6/8/2023 3:23:35 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-233887-3

Eurofins Chicago

Job Notes

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

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

Authorization



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6/8/2023 3:23:35 PM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	11
QC Association	12
QC Sample Results	14
Chain of Custody	18
Receipt Checklists	24
Chronicle	25
Certification Summary	27

Case Narrative

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

Job ID: 500-233887-3

Job ID: 500-233887-3

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-233887-3**

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

Metals

Methods 6020A, 6020B: The initial low level and continuing calibration verification (ICVL/CCVL) associated with batch 500-715021 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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 ABB/ASB

Job ID: 500-233887-3

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 ABB/ASB

Job ID: 500-233887-3

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-233887-7	MW-17	Water	05/18/23 13:37	05/19/23 10:00
500-233887-8	MW-18	Water	05/18/23 12:34	05/19/23 10:00
500-233887-9	MW-19	Water	05/18/23 14:41	05/19/23 10:00
500-233887-10	Duplicate	Water	05/18/23 00:00	05/19/23 10:00

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- 2
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- 4
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- 6
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- 12
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Client Sample Results

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

Job ID: 500-233887-3

Client Sample ID: MW-17

Lab Sample ID: 500-233887-7

Date Collected: 05/18/23 13:37

Matrix: Water

Date Received: 05/19/23 10:00

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		05/22/23 09:02	05/24/23 20:10	1
Arsenic	0.0026		0.0010		mg/L		05/22/23 09:02	05/23/23 23:05	1
Barium	0.023		0.0025		mg/L		05/22/23 09:02	05/23/23 23:05	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:05	1
Boron	0.98		0.050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Calcium	150		0.20		mg/L		05/22/23 09:02	05/24/23 20:10	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:05	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Lithium	0.011		0.010		mg/L		05/22/23 09:02	05/25/23 16:43	1
Molybdenum	0.058		0.0050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 23:05	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10		mg/L			05/22/23 01:10	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			05/24/23 16:32	10
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	460		250		mg/L			05/26/23 14:10	50

Client Sample Results

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

Job ID: 500-233887-3

Client Sample ID: MW-18
Date Collected: 05/18/23 12:34
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-8
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		05/22/23 09:02	05/24/23 20:14	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:09	1
Barium	0.12		0.0025		mg/L		05/22/23 09:02	05/23/23 23:09	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:09	1
Boron	0.61		0.050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Calcium	130		0.20		mg/L		05/22/23 09:02	05/24/23 20:14	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:09	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:54	1
Molybdenum	0.0060		0.0050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 23:09	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			05/22/23 01:13	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			05/24/23 16:32	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			05/26/23 14:24	10

Client Sample Results

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

Job ID: 500-233887-3

Client Sample ID: MW-19

Lab Sample ID: 500-233887-9

Date Collected: 05/18/23 14:41

Matrix: Water

Date Received: 05/19/23 10:00

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		05/22/23 09:02	05/24/23 20:17	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:12	1
Barium	0.069		0.0025		mg/L		05/22/23 09:02	05/23/23 23:12	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:12	1
Boron	3.8		0.050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Calcium	78		0.20		mg/L		05/22/23 09:02	05/24/23 20:17	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:12	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Lithium	0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:57	1
Molybdenum	0.030		0.0050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Selenium	0.0035		0.0025		mg/L		05/22/23 09:02	05/23/23 23:12	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	580		10		mg/L			05/22/23 01:15	1
Chloride (SM 4500 Cl- E)	31		2.0		mg/L			05/24/23 16:33	1
Fluoride (SM 4500 F C)	0.13		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	150		50		mg/L			05/26/23 14:24	10

Client Sample Results

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

Job ID: 500-233887-3

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

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		05/22/23 09:02	05/24/23 20:20	1
Arsenic	0.0015		0.0010		mg/L		05/22/23 09:02	05/23/23 23:16	1
Barium	0.11		0.0025		mg/L		05/22/23 09:02	05/23/23 23:16	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:16	1
Boron	0.59		0.050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Calcium	130		0.20		mg/L		05/22/23 09:02	05/24/23 20:20	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:16	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Lithium	0.011		0.010		mg/L		05/22/23 09:02	06/08/23 13:11	1
Molybdenum	0.0059		0.0050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 23:16	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/22/23 01:18	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			05/24/23 16:33	10
Fluoride (SM 4500 F C)	0.56		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	110		50		mg/L			05/26/23 14:25	10

Definitions/Glossary

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

Job ID: 500-233887-3

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 ABB/ASB

Job ID: 500-233887-3

Metals

Prep Batch: 714515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	3005A	
500-233887-8	MW-18	Total Recoverable	Water	3005A	
500-233887-9	MW-19	Total Recoverable	Water	3005A	
500-233887-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 715021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	6020A	714515
500-233887-8	MW-18	Total Recoverable	Water	6020A	714515
500-233887-9	MW-19	Total Recoverable	Water	6020A	714515
500-233887-10	Duplicate	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	6020A	714515
500-233887-8	MW-18	Total Recoverable	Water	6020A	714515
500-233887-9	MW-19	Total Recoverable	Water	6020A	714515
500-233887-10	Duplicate	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	6020A	714515
500-233887-8	MW-18	Total Recoverable	Water	6020A	714515
500-233887-9	MW-19	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Prep Batch: 716983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	7470A	
500-233887-8	MW-18	Total/NA	Water	7470A	
500-233887-9	MW-19	Total/NA	Water	7470A	
500-233887-10	Duplicate	Total/NA	Water	7470A	
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-233887-9 MS	MW-19	Total/NA	Water	7470A	
500-233887-9 MSD	MW-19	Total/NA	Water	7470A	
500-233887-9 DU	MW-19	Total/NA	Water	7470A	

Analysis Batch: 717281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	7470A	716983
500-233887-8	MW-18	Total/NA	Water	7470A	716983
500-233887-9	MW-19	Total/NA	Water	7470A	716983
500-233887-10	Duplicate	Total/NA	Water	7470A	716983

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QC Association Summary

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

Job ID: 500-233887-3

Metals (Continued)

Analysis Batch: 717281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	716983
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	716983
500-233887-9 MS	MW-19	Total/NA	Water	7470A	716983
500-233887-9 MSD	MW-19	Total/NA	Water	7470A	716983
500-233887-9 DU	MW-19	Total/NA	Water	7470A	716983

Analysis Batch: 717605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-10	Duplicate	Total Recoverable	Water	6020A	714515

General Chemistry

Analysis Batch: 714420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 2540C	
500-233887-8	MW-18	Total/NA	Water	SM 2540C	
500-233887-9	MW-19	Total/NA	Water	SM 2540C	
500-233887-10	Duplicate	Total/NA	Water	SM 2540C	
MB 500-714420/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-714420/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 715052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 4500 F C	
500-233887-8	MW-18	Total/NA	Water	SM 4500 F C	
500-233887-9	MW-19	Total/NA	Water	SM 4500 F C	
500-233887-10	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-715052/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-715052/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 715089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 4500 CI- E	
500-233887-8	MW-18	Total/NA	Water	SM 4500 CI- E	
500-233887-9	MW-19	Total/NA	Water	SM 4500 CI- E	
500-233887-10	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-715089/113	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-715089/114	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 715553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-233887-8	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-233887-9	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-233887-10	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-715553/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-715553/33	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-715553/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-715553/35	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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QC Sample Results

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

Job ID: 500-233887-3

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Barium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Boron	<0.050		0.050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Molybdenum	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:21	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:19	1
Calcium	<0.20		0.20		mg/L		05/22/23 09:02	05/24/23 19:19	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:13	1

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	0.100	0.0987		mg/L		99	80 - 120
Barium	2.00	1.98		mg/L		99	80 - 120
Beryllium	0.0500	0.0541	^+ ^1+	mg/L		108	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.885		mg/L		88	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.0978		mg/L		98	80 - 120

QC Sample Results

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

Job ID: 500-233887-3

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

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.485		mg/L		97	80 - 120
Calcium	10.0	8.73		mg/L		87	80 - 120

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.486		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-716983/12-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:18	1

Lab Sample ID: LCS 500-716983/13-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00202		mg/L		102	80 - 120

Lab Sample ID: 500-233887-9 MS
Matrix: Water
Analysis Batch: 717281

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 716983

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

Lab Sample ID: 500-233887-9 MSD
Matrix: Water
Analysis Batch: 717281

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125	2	20

Lab Sample ID: 500-233887-9 DU
Matrix: Water
Analysis Batch: 717281

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 716983

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

QC Sample Results

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

Job ID: 500-233887-3

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

Lab Sample ID: MB 500-714420/1
Matrix: Water
Analysis Batch: 714420

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			05/22/23 00:24	1

Lab Sample ID: LCS 500-714420/2
Matrix: Water
Analysis Batch: 714420

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-715089/113
Matrix: Water
Analysis Batch: 715089

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			05/24/23 16:30	1

Lab Sample ID: LCS 500-715089/114
Matrix: Water
Analysis Batch: 715089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-715052/3
Matrix: Water
Analysis Batch: 715052

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			05/24/23 08:35	1

Lab Sample ID: LCS 500-715052/4
Matrix: Water
Analysis Batch: 715052

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-715553/16
Matrix: Water
Analysis Batch: 715553

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			05/26/23 14:07	1

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QC Sample Results

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

Job ID: 500-233887-3

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

Lab Sample ID: MB 500-715553/33
Matrix: Water
Analysis Batch: 715553

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			05/26/23 14:15	1

Lab Sample ID: LCS 500-715553/17
Matrix: Water
Analysis Batch: 715553

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	20.2		mg/L		101	88 - 123

Lab Sample ID: LCS 500-715553/35
Matrix: Water
Analysis Batch: 715553

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	20.6		mg/L		103	88 - 123

Eurofins Chicago

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

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-233887 COC 31													
Client Contact: Kaelyn Sperte		Phone: <u>262-278-1621</u>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: <u>IL</u>													
Company: KPRG and Associates, Inc		PWSID:		Analysis Requested															
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		<table border="1"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform M/MS/SD (Yes or No)</th> <th>903.0, 904.0</th> <th>6020A, 7470A</th> <th>2540C, 4500_F_C, SM4500_CLE</th> <th>SM4500_SO4_E - Sulfate</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate						
Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A					2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate										
City: Brookfield		TAT Requested (days): <u>standard</u>						Job #: <u>500-233887</u>		Page 1 of 1									
State, Zip: WI, 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No						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)									
Phone: 262-781-0475(Tel)		PO #: 4502125100		Other:															
Email: kaelyns@kprginc.com		WO #:		Total Number of containers:															
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		Special Instructions/Note:															
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)	Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate	Total Number of containers:	Special Instructions/Note:						
MW-01		5/17/23	1236	G	Water	N	N	X	X	X	X								
MW-08		5/17/23	1132	G	Water	N	N	X	X	X	X								
MW-09					Water														
MW-11					Water														
MW-12					Water														
MW-15		5/17/23	1348	G	Water	N	N	X	X	X	X								
MW-17					Water														
MW-18					Water														
MW-19					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>5/17/23/1730</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>5/17/23/1730</u>		Company: <u>FedEx</u>									
Relinquished by:		Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>5/18/23 0840</u>		Company:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>															

Eurofins Chicago

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

Chain of Custody Record



eurofins | Environment Testing

Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COC No: 500-112087-46458 1																						
Client Contact: Kaelyn Sperle		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurotinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1																						
Company KPRG and Associates, Inc		PWSID	Analysis Requested																								
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>	<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_C1E</td> <td>SM4500_SO4_E - Sulfate</td> </tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate																
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0						6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate																	
City: Brookfield		TAT Requested (days) <i>Standard</i>																									
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																									
Phone 262-781-0475(Tel)		PO # 4502125100																									
Email kaelyns@kprginc.com		WO #																									
Project Name: <i>ABBASB</i> 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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate	Total Number of containers:	Special Instructions/Note:														
				Preservation Code																							
MW-01					Water																						
MW-02					Water																						
MW-09					Water																						
MW-11					Water																						
MW-12					Water																						
MW-15		<i>X</i>			Water																						
<i>78910</i> MW-17		<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water	<i>M</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>																
MW-18		<i>5/18/23</i>	<i>1234</i>		Water	<i>M</i>	<i>N</i>																				
MW-19		<i>5/18/23</i>	<i>1441</i>		Water	<i>N</i>	<i>N</i>																				
<i>78910</i> Duplicate		<i>5/18/23</i>	<i>-</i>		Water	<i>N</i>	<i>N</i>																				
					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>5/18/23/1715</i>		Company: <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time: <i>5/18/23/1715</i>		Company: <i>FedEx</i>																	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																	
Relinquished by:		Date/Time:		Company:		Received by: <i>Kaelyn Sperle</i>		Date/Time: <i>5/18/23 1000</i>		Company:																	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>																							

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-438344388-23735

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



UNIVERSITY PARK IL 60

(000) 000-0000

REF

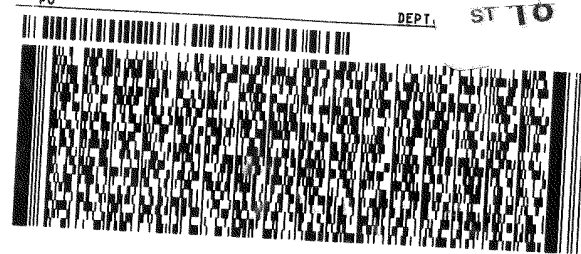
500-233887 Waybl

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**FedEx
Express**



1 of 4

TRK#
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PRIORITY OVERNIGHT**

XN JOTA

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500-233887 Waybi

ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETES

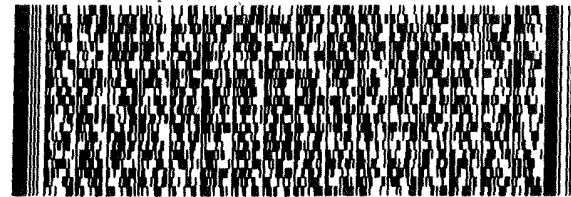
TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INU:
PO:

REF:

DEPT:



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Express



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4 of 5

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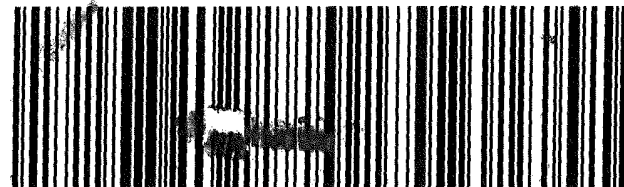
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THU - 18 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



Do Not Lift Using This Tag

RT 519
ST 20
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A 7:203
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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

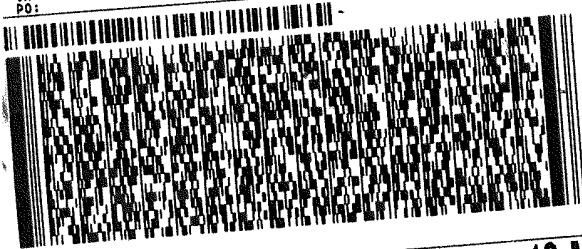
SHIP DATE: 18MAY23
ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-83631123

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

2 of 3
MPS# 3984 9766 7203
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0201

XN JOTA

60484
IL-US ORD



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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-83631123

TO SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK I

RT 519
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A 7:199
05 19

(000) 000-0000 REF:



1 of 3
TRK# 3984 9766 7199
0201
MASTER

FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



500-233887 Waybl

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-3

Login Number: 233887

List Number: 1

Creator: James, Jeff A

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	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-233887-3

Client Sample ID: MW-17
Date Collected: 05/18/23 13:37
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:05
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:10
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:43
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:35
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:10
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		50	715553	MM	EET CHI	05/26/23 14:10

Client Sample ID: MW-18
Date Collected: 05/18/23 12:34
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:09
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:14
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:54
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:41
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:13
Total/NA	Analysis	SM 4500 CI- E		5	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:24

Client Sample ID: MW-19
Date Collected: 05/18/23 14:41
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:12
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:17
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:57
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:43

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-233887-3

Client Sample ID: MW-19

Lab Sample ID: 500-233887-9

Date Collected: 05/18/23 14:41

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:15
Total/NA	Analysis	SM 4500 CI- E		1	715089	MM	EET CHI	05/24/23 16:33
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:24

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:16
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:20
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	717605	FXG	EET CHI	06/08/23 13:11
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:52
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:18
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:33
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:25

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-233887-3

Laboratory: Eurofins Chicago

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

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

1

2

3

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6

7

8

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10

11

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13

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

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

Generated 6/21/2023 4:24:58 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-233887-4

Eurofins Chicago

Job Notes

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

Authorization



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6/21/2023 4:24:58 PM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	11
QC Association	12
QC Sample Results	13
Chain of Custody	14
Receipt Checklists	22
Chronicle	25
Certification Summary	26
Tracer Carrier Summary	27

Case Narrative

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

Job ID: 500-233887-4

Job ID: 500-233887-4

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-233887-4

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

RAD

Methods 903.0, 9315: Radium-226 batch 613260

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-17 (500-233887-7), MW-18 (500-233887-8), MW-19 (500-233887-9), Duplicate (500-233887-10), (LCS 160-613260/2-A), (MB 160-613260/1-A), (500-233887-E-4-A) and (500-233887-G-4-B DU)

Methods 904.0, 9320: Radium-228 batch 613360

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-17 (500-233887-7), MW-18 (500-233887-8), MW-19 (500-233887-9), Duplicate (500-233887-10), (LCS 160-613360/2-A), (MB 160-613360/1-A), (500-233887-E-4-B) and (500-233887-G-4-C DU)

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

Method Summary

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

Job ID: 500-233887-4

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 ABB/ASB (RAD)

Job ID: 500-233887-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-7	MW-17	Water	05/18/23 13:37	05/19/23 10:00
500-233887-8	MW-18	Water	05/18/23 12:34	05/19/23 10:00
500-233887-9	MW-19	Water	05/18/23 14:41	05/19/23 10:00
500-233887-10	Duplicate	Water	05/18/23 00:00	05/19/23 10:00

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

Client Sample Results

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

Job ID: 500-233887-4

Client Sample ID: MW-17
Date Collected: 05/18/23 13:37
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-7
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	0.0469	U	0.141	0.141	1.00	0.268	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					05/26/23 09:29	06/20/23 22:37	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	0.413	U	0.335	0.337	1.00	0.521	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	85.6		30 - 110					05/26/23 13:14	06/20/23 11:22	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	0.460	U	0.363	0.365	5.00	0.521	pCi/L		06/21/23 15:27	1

Client Sample Results

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

Job ID: 500-233887-4

Client Sample ID: MW-18

Lab Sample ID: 500-233887-8

Date Collected: 05/18/23 12:34

Matrix: Water

Date Received: 05/19/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.140	0.141	1.00	0.234	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					05/26/23 09:29	06/20/23 22:37	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	0.241	U	0.266	0.267	1.00	0.433	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	87.1		30 - 110					05/26/23 13:14	06/20/23 11:22	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	0.347	U	0.301	0.302	5.00	0.433	pCi/L		06/21/23 15:27	1

Client Sample Results

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

Job ID: 500-233887-4

Client Sample ID: MW-19
Date Collected: 05/18/23 14:41
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-9
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	0.0705	U	0.118	0.118	1.00	0.209	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 09:29	06/20/23 22:37	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	0.533		0.329	0.333	1.00	0.479	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	82.6		30 - 110					05/26/23 13:14	06/20/23 11:22	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	0.604		0.350	0.353	5.00	0.479	pCi/L		06/21/23 15:27	1

Client Sample Results

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

Job ID: 500-233887-4

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193	U	0.164	0.165	1.00	0.238	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 09:29	06/20/23 22:37	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	0.133	U	0.295	0.295	1.00	0.514	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	85.6		30 - 110					05/26/23 13:14	06/20/23 11:22	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	0.326	U	0.338	0.338	5.00	0.514	pCi/L		06/21/23 15:27	1

Definitions/Glossary

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

Job ID: 500-233887-4

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-233887-4

Rad

Prep Batch: 613260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	PrecSep-21	
500-233887-8	MW-18	Total/NA	Water	PrecSep-21	
500-233887-9	MW-19	Total/NA	Water	PrecSep-21	
500-233887-10	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-613260/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-613260/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 613360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	PrecSep_0	
500-233887-8	MW-18	Total/NA	Water	PrecSep_0	
500-233887-9	MW-19	Total/NA	Water	PrecSep_0	
500-233887-10	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-613360/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-613360/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-233887-4

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-613260/1-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613260

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03010	U	0.129	0.129	1.00	0.292	pCi/L	05/26/23 09:29	06/20/23 20:52	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
%Yield	MB Qualifier									
Ba Carrier	87.0		30 - 110			05/26/23 09:29	06/20/23 20:52	1		

Lab Sample ID: LCS 160-613260/2-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613260

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.751		1.28	1.00	0.348	pCi/L	86	75 - 125
Carrier	LCS		Limits			Prepared	Analyzed	Dil Fac	
%Yield	LCS Qualifier								
Ba Carrier	85.4		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-613360/1-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613360

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1566	U	0.299	0.299	1.00	0.517	pCi/L	05/26/23 13:14	06/20/23 11:15	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
%Yield	MB Qualifier									
Ba Carrier	87.0		30 - 110			05/26/23 13:14	06/20/23 11:15	1		
Y Carrier	86.4		30 - 110			05/26/23 13:14	06/20/23 11:15	1		

Lab Sample ID: LCS 160-613360/2-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613360

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.10	8.095		1.15	1.00	0.499	pCi/L	100	75 - 125
Carrier	LCS		Limits			Prepared	Analyzed	Dil Fac	
%Yield	LCS Qualifier								
Ba Carrier	85.4		30 - 110						
Y Carrier	88.2		30 - 110						

Eurofins Chicago

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

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-233887 COC 31																															
Client Contact: Kaelyn Sperte		Phone: <u>262-278-1621</u>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: <u>IL</u>																															
Company: KPRG and Associates, Inc		PWSID:		Analysis Requested																																	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform M/MS/SD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CLE</td> <td>SM4500_SO4_E - Sulfate</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate																								
Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A					2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate																												
City: Brookfield		TAT Requested (days): <u>standard</u>		<table border="1"> <tr> <td>Preservation Codes</td> <td>M - Hexane</td> </tr> <tr> <td>A - HCL</td> <td>N - None</td> </tr> <tr> <td>B - NaOH</td> <td>O - AsNaO2</td> </tr> <tr> <td>C - Zn Acetate</td> <td>P - Na2O4S</td> </tr> <tr> <td>D - Nitric Acid</td> <td>Q - Na2SO3</td> </tr> <tr> <td>E - NaHSO4</td> <td>R - Na2S2O3</td> </tr> <tr> <td>F - MeOH</td> <td>S - H2SO4</td> </tr> <tr> <td>G - Amchlor</td> <td>T - TSP Dodecahydrate</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>U - Acetone</td> </tr> <tr> <td>I - Ice</td> <td>V - MCAA</td> </tr> <tr> <td>J - DI Water</td> <td>W - pH 4-5</td> </tr> <tr> <td>K - EDTA</td> <td>Y - Trizma</td> </tr> <tr> <td>L - EDA</td> <td>Z - other (specify)</td> </tr> <tr> <td>Other:</td> <td></td> </tr> </table>				Preservation Codes	M - Hexane	A - HCL	N - None	B - NaOH	O - AsNaO2	C - Zn Acetate	P - Na2O4S	D - Nitric Acid	Q - Na2SO3	E - NaHSO4	R - Na2S2O3	F - MeOH	S - H2SO4	G - Amchlor	T - TSP Dodecahydrate	H - Ascorbic Acid	U - Acetone	I - Ice	V - MCAA	J - DI Water	W - pH 4-5	K - EDTA	Y - Trizma	L - EDA	Z - other (specify)	Other:			
Preservation Codes	M - Hexane																																				
A - HCL	N - None																																				
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J - DI Water	W - pH 4-5																																				
K - EDTA	Y - Trizma																																				
L - EDA	Z - other (specify)																																				
Other:																																					
State, Zip: WI, 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of containers: <u>500-888</u>																																	
Phone: 262-781-0475(Tel)		PO #: 4502125100																																			
Email: kaelyns@kprginc.com		WO #:		Job #: <u>233887</u> Page 1 of 1																																	
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612																																			
Site: Illinois		SSOW#:		Special Instructions/Note:																																	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)																														
				Preservation Code																																	
4 MW-01	5/17/23	1236	G	Water		N	X X X X																														
5 MW-08	5/17/23	1132	G	Water		N	X X X X																														
MW-09				Water																																	
MW-11				Water																																	
MW-12				Water																																	
6 MW-15	5/17/23	1348	G	Water		N	X X X X																														
MW-17				Water																																	
MW-18				Water																																	
MW-19				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>5/17/23/1730</u>	Company: <u>KPRG</u>	Received by: <u>FedEx</u>																																	
Relinquished by:		Date/Time:	Company:	Received by: <u>[Signature]</u>																																	
Relinquished by:		Date/Time:	Company:	Received by: <u>[Signature]</u>																																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>																																	

Eurofins Chicago

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

Chain of Custody Record



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Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COE No: 500-112087-46458 1							
Client Contact: Kaelyn Sperle		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurotinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1							
Company KPRG and Associates, Inc		PWSID	Analysis Requested		Job # <i>500-233887</i>							
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>	<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_C1E</td> <td>SM4500_SO4_E - Sulfate</td> </tr> </table>		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate	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) Other:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0			6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate					
City: Brookfield		TAT Requested (days) <i>Standard</i>										
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Phone 262-781-0475(Tel)		PO # 4502125100										
Email kaelyns@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)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate	Total Number of containers:	Special Instructions/Note:
MW-01				Water								
MW-02				Water								
MW-09				Water								
MW-11				Water								
MW-12				Water								
MW-15	<i>X</i>			Water								
MW-17	<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water	<i>M</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-18	<i>5/18/23</i>	<i>1234</i>		Water	<i>M</i>	<i>N</i>						
MW-19	<i>5/18/23</i>	<i>1441</i>		Water	<i>N</i>	<i>N</i>						
<i>78910 Duplicate</i>	<i>5/18/23</i>	<i>-</i>		Water	<i>N</i>	<i>N</i>						
				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>5/18/23/1715</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>		Date/Time: <i>5/18/23/1715</i>	Company: <i>FedEx</i>					
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:					
Relinquished by:		Date/Time:	Company:	Received by: <i>Kaelyn Sperle</i>		Date/Time: <i>5/18/23 1000</i>	Company:					
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>										

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-438344388-23795/23

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



UNIVERSITY PARK IL 60

(000) 000-0000

REF

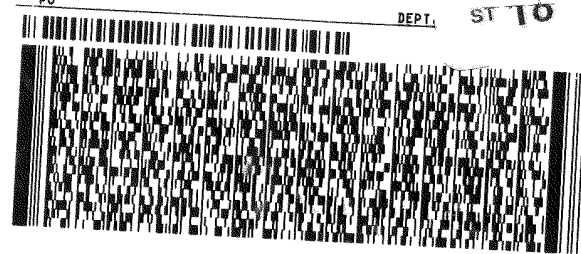
500-233887 Waybl

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**FedEx
Express**



1 of 4

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MASTER

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500-233887 Waybi

ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETRES

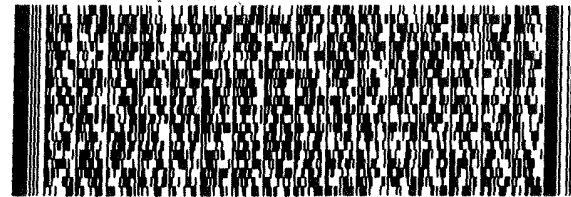
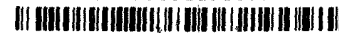
TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INU:
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FedEx
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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

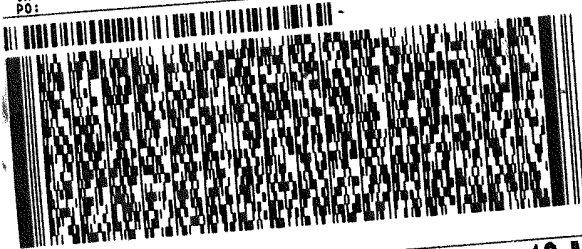
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ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-83631123

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

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2 of 3
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PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



Do Not Lift Using This Tag

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-83631123

TO SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK I

RT 519
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05 19

(000) 000-0000 REF:



1 of 3
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FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



500-233887 Waybl

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:																																			
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-174049,1																																			
Company: TestAmerica Laboratories, Inc.			E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1																																			
Address: 13715 Rider Trail North,		Due Date Requested: 6/21/2023	Accreditations Required (See note): NELAP - Illinois																																					
City: Earth City	TAT Requested (days):	Job #: 500-233887-4																																						
State, Zip: MO, 63045	FO #:	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)																																						
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:	Other:																																						
Email:	Project #: 50011612																																							
Project Name: Powertown CCR ABB/ASB (RAD)	SSOW#:																																							
Site: MWG - Powerton																																								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other, etc.)	Preservation Code:																																			
MW-17 (500-233887-7)	5/18/23	13:37 Central	Water	Water																																				
MW-18 (500-233887-8)	5/18/23	12:34 Central	Water	Water																																				
MW-19 (500-233887-9)	5/18/23	14:41 Central	Water	Water																																				
Duplicate (500-233887-10)	5/18/23	Central	Water	Water																																				
<table border="1"> <thead> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>90.30/PreSep_21 Standard Target List</th> <th>90.40/PreSep_0 Standard Target List</th> <th>Ra226Ra228_GFPc</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <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> </tbody> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.30/PreSep_21 Standard Target List	90.40/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
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.30/PreSep_21 Standard Target List	90.40/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:																																		
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X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																		
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>																																								
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements:</p>																																								
<p>Empty Amp Relinquished by: <i>[Signature]</i> Date: 5/19/23 Time: 16:00</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 5/19/23 16:00 Company: FedEx</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 5/19/23 16:00 Company: FedEx</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 5/19/23 16:00 Company: FedEx</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:</p>																																								



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-4

Login Number: 233887

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-4

Login Number: 233887

List Number: 2

Creator: Farrell, Conor P

List Source: Eurofins St. Louis

List Creation: 05/18/23 01:47 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: 500-233887-4

Login Number: 233887

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 05/22/23 06:02 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	

Lab Chronicle

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

Job ID: 500-233887-4

Client Sample ID: MW-17

Lab Sample ID: 500-233887-7

Date Collected: 05/18/23 13:37

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: MW-18

Lab Sample ID: 500-233887-8

Date Collected: 05/18/23 12:34

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: MW-19

Lab Sample ID: 500-233887-9

Date Collected: 05/18/23 14:41

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-233887-4

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

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Tracer/Carrier Summary

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

Job ID: 500-233887-4

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-233887-7	MW-17	92.3
500-233887-8	MW-18	95.1
500-233887-9	MW-19	95.9
500-233887-10	Duplicate	95.9
LCS 160-613260/2-A	Lab Control Sample	85.4
MB 160-613260/1-A	Method Blank	87.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-233887-7	MW-17	92.3	85.6
500-233887-8	MW-18	95.1	87.1
500-233887-9	MW-19	95.9	82.6
500-233887-10	Duplicate	95.9	85.6
LCS 160-613360/2-A	Lab Control Sample	85.4	88.2
MB 160-613360/1-A	Method Blank	87.0	86.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/17/23
Sample Name	MW-01	Start Time	1218	
Condition of Well	good			
Water Level	23.91	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	4 gts	WL at Sample Time	23.91	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (FAB, ABIBASB)	Sample Time	1236	
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)
1220	23.91	7.32	17.5	.728	8.77	21.9	6.65
1223	-	7.22	11.6	.625	8.81	30.7	5.05
1226	-	7.22	12.1	.624	8.54	31.5	4.41
1229	-	7.23	11.3	.616	8.42	32.6	4.36
1232	23.91	7.23	11.4	.612	8.26	33.3	4.33

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/17/23
Sample Name	MW-08	Start Time	1117	
Condition of Well	good			
Water Level	25.42	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, brown	
Volume Removed	5 gts	WL at Sample Time	25.42	
Method of Sample	Low flow bladder	Sample Characteristics	clear w/ yellow tint	
Sample Analysis	CCA, CCR(ABBASB)	Sample Time	1132	
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)
1119	25.42	7.55	14.9	1.058	6.55	-176.5	432.52
1122	-	7.62	15.0	.980	3.34	-203.3	96.31
1125	-	7.67	14.8	.976	2.60	-211.7	36.49
1128	25.42	7.68	14.9	.979	2.05	-221.7	17.75

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/16/23
Sample Name	MW-09	Start Time	1449	
Condition of Well	good			
Water Level	25.89	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	3.5 gts	WL at Sample Time	25.89	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (ABBA SB)	Sample Time	1518	
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)
1451	25.89	7.50	17.8	.695	9.00	28.8	17.21
1454	-	7.45	15.0	.667	5.35	-1.1	16.48
1457	-	7.46	15.2	.660	2.75	7.8	16.02
1500	25.89	7.46	15.0	.659	2.35	9.4	15.52

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/16/23
Sample Name	MW-11	Start Time	1346	
Condition of Well	good			
Water Level	29.39	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	3 gals	WL at Sample Time	29.41	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1401	
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)
1348	29.39	7.25	16.2	.863	8.52	-47.8	4.02
1351	-	7.16	16.0	1.053	5.08	-115.3	31.20
1354	-	7.18	15.9	1.020	3.06	-128.5	16.87
1357	29.41	7.19	15.8	.999	2.28	-133.7	10.18

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/16/23
Sample Name	MW-12	Start Time	1239	
Condition of Well	good			
Water Level	21.90	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, orange	
Volume Removed	3 gts	WL at Sample Time	21.92	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1257	
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)
1241	21.90	7.74	13.7	1.138	9.09	-41.8	13.75
1244	-	7.91	12.7	1.085	5.00	-168.8	597.57
1247	-	7.95	12.4	1.083	3.28	-198.0	457.18
1250	-	7.96	12.3	1.084	2.62	-203.9	52.04
1253	21.92	7.96	12.1	1.084	2.25	-203.9	21.37

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/17/23
Sample Name	MW-15	Start Time	1333	
Condition of Well	good.			
Water Level	24.67	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, brown	
Volume Removed	6 gts	WL at Sample Time	24.71	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (MCB, ARBASB)	Sample Time	1348	
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)
1335	24.67	7.04	16.3	1.659	8.20	18.9	10.08
1338	-	6.84	16.0	2.694	5.18	38.1	397.15
1341	-	6.83	15.9	2.693	3.61	29.4	2.692
1344	-	6.83	16.3	2.646	2.88	-1.0	39.90
1347	-	6.84	15.7	2.651	2.40	-20.8	20.76
1350	24.71	6.84	15.9	2.640	1.99	-33.7	13.90

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

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PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	5/18/23
Sample Name	MW-17	Start Time	1320	
Condition of Well	good			
Water Level	19.62	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, brown	
Volume Removed	5 gals	W L at Sample Time	20.88	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR (MCB, ABBASB)	Sample Time	1337	
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)
1321	19.62	7.58	15.6	1.750	7.92	-87.3	106.60
1324	—	7.39	15.7	1.596	3.78	-53.2	135.88
1327	—	7.37	15.6	1.592	2.53	-41.6	30.70
1330	—	7.36	15.9	1.592	2.04	-36.3	13.18
1333	20.88	7.34	15.6	1.610	1.74	-31.8	9.92

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/18/23
Sample Name	MW-18	Start Time	1217	
Condition of Well	good			
Water Level	26.35	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear w/ black specks	
Volume Removed	5 gals	W L at Sample Time	29.17	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR (ABBASB)	Sample Time	1234	
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)
1218	26.35	8.05	15.5	1.351	7.42	-121.9	8.79
1221	-	8.02	15.7	1.339	4.83	-139.5	7.29
1224	-	8.03	16.1	1.346	3.18	-153.2	4.49
1227	-	8.03	15.8	1.337	2.42	-164.4	3.60
1230	29.17	8.04	15.7	1.336	1.94	-172.7	3.04

SAMPLING NOTES:

ABBASB Duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	5/18/23
Sample Name	MW-19	Start Time	1427	
Condition of Well	good			
Water Level	22.91	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	4.5 gfs	WL at Sample Time	22.91	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR (ABBASB)	Sample Time	1441	
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)
1428	22.91	7.41	16.5	.734	7.42	-83.5	2.28
1431	-	7.26	16.4	.726	4.02	-53.3	2.30
1434	-	7.25	16.4	.723	2.58	-37.3	2.12
1437	22.91	7.26	16.4	.724	1.91	-29.1	2.25

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS