

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 4th quarter 2022 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. 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. MW-14, MW-20 and MW-21 were unable to be sampled as it was determined there was an insufficient water column within the well to allow for sample collection. This has been tied to the decline in the Illinois River water levels which will be further discussed in the Annual Groundwater Monitoring and Corrective Action Report.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit for the Metal Cleaning Basin dated March 31, 2022. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

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

Well	Date	Turbidity (NTU)
MW-13	2/24/2021	8.90
	4/8/2021	6.50
	5/13/2021	2.17
	6/3/2021	2.81
	6/29/2021	4.00
	8/23/2021	3.99
	10/1/2021	4.82
	11/30/2021	5.51
	1/6/2022	16.87
	2/9/2022	1.99
	6/8/2022	30.66
	8/31/2022	16.22
	11/16/2022	4.82
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/7/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
	11/16/2022	55.82
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/30/2021	8.86
	2/9/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
	11/16/2022	116.69
MW-14	2/24/2021	13.90
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
	7/20/2021	4.34
	8/23/2021	4.26
	10/1/2021	10.27
	11/29/2021	12.29
	2/9/2022	8.66
	6/8/2022	19.54
	8/31/2022	40.75
	11/17/2022	31.69
MW-20	3/12/2021	343.30
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
	7/20/2021	9.16
	8/23/2021	27.31
	10/1/2021	8.27
	11/29/2021	8.35
	2/8/2022	76.4
	6/9/2022	19.31
	9/1/2022	63.5
	11/17/2022	NM
MW-21	3/12/2021	49.20
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33
	7/20/2021	44.93
	8/23/2021	19.43
	10/8/2021	94.82
	11/29/2021	20.2
	3/1/2022	7.64
	6/9/2022	7.56
	9/1/2022	NM
	11/17/2022	NM

NM - Not Measured due to insufficient water volume.

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

Attn: Richard Gnat
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JOB DESCRIPTION

Powerton CCR MCB

JOB NUMBER

500-225643-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

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

Job ID: 500-225643-1

Job ID: 500-225643-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-225643-1**

Comments

No additional comments.

Receipt

The samples were received on 11/17/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

Metals

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.

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Method Summary

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

Job ID: 500-225643-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	MCAWW	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	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:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

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

Job ID: 500-225643-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225643-1	MW-15	Water	11/16/22 10:30	11/17/22 10:10
500-225643-2	MW-17	Water	11/16/22 12:20	11/17/22 10:10
500-225643-3	Duplicate	Water	11/16/22 00:00	11/17/22 10:10
500-225643-4	MW-13	Water	11/16/22 13:52	11/17/22 10:10

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Client Sample Results

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

Job ID: 500-225643-1

Client Sample ID: MW-15

Lab Sample ID: 500-225643-1

Date Collected: 11/16/22 10:30

Matrix: Water

Date Received: 11/17/22 10:10

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		12/06/22 08:48	12/06/22 15:48	1
Arsenic	0.012		0.0010		mg/L		12/06/22 08:48	12/06/22 15:48	1
Barium	0.068		0.0025		mg/L		12/06/22 08:48	12/06/22 15:48	1
Beryllium	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 15:48	1
Boron	1.3		0.050		mg/L		12/06/22 08:48	12/06/22 15:48	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 15:48	1
Calcium	210		0.20		mg/L		12/06/22 08:48	12/06/22 15:48	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:48	12/06/22 15:48	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 15:48	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 15:48	1
Lithium	0.026		0.010		mg/L		12/06/22 08:48	12/09/22 22:08	1
Molybdenum	0.050		0.0050		mg/L		12/06/22 08:48	12/06/22 15:48	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:48	12/06/22 15:48	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:48	12/06/22 15:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/29/22 10:10	11/30/22 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.81		0.20		mg/L			12/10/22 14:55	1
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			11/22/22 02:53	1
Chloride (SM 4500 Cl- E)	220		20		mg/L			12/06/22 09:52	10
Sulfate (SM 4500 SO4 E)	400		250		mg/L			11/29/22 11:48	50

Client Sample ID: MW-17

Lab Sample ID: 500-225643-2

Date Collected: 11/16/22 12:20

Matrix: Water

Date Received: 11/17/22 10:10

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		12/06/22 08:48	12/06/22 16:05	1
Arsenic	0.0031		0.0010		mg/L		12/06/22 08:48	12/06/22 16:05	1
Barium	0.031		0.0025		mg/L		12/06/22 08:48	12/06/22 16:05	1
Beryllium	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 16:05	1
Boron	1.1		0.050		mg/L		12/06/22 08:48	12/06/22 16:05	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 16:05	1
Calcium	160		0.20		mg/L		12/06/22 08:48	12/06/22 16:05	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:48	12/06/22 16:05	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 16:05	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 16:05	1
Lithium	0.013		0.010		mg/L		12/06/22 08:48	12/09/22 22:25	1
Molybdenum	0.026		0.0050		mg/L		12/06/22 08:48	12/06/22 16:05	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:48	12/06/22 16:05	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:48	12/06/22 16:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/29/22 10:10	11/30/22 08:42	1

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Client Sample Results

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

Job ID: 500-225643-1

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.2		0.20		mg/L			12/10/22 14:42	1
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			11/22/22 02:56	1
Chloride (SM 4500 Cl- E)	170		20		mg/L			12/06/22 09:52	10
Sulfate (SM 4500 SO4 E)	600		100		mg/L			11/29/22 11:48	20

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-3

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		12/06/22 08:48	12/06/22 16:09	1
Arsenic	0.024		0.0010		mg/L		12/06/22 08:48	12/06/22 16:09	1
Barium	0.16		0.0025		mg/L		12/06/22 08:48	12/06/22 16:09	1
Beryllium	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 16:09	1
Boron	2.5		0.050		mg/L		12/06/22 08:48	12/06/22 16:09	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 16:09	1
Calcium	240		0.20		mg/L		12/06/22 08:48	12/06/22 16:09	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:48	12/06/22 16:09	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 16:09	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 16:09	1
Lithium	<0.010		0.010		mg/L		12/06/22 08:48	12/09/22 22:29	1
Molybdenum	0.018		0.0050		mg/L		12/06/22 08:48	12/06/22 16:09	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:48	12/06/22 16:09	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:48	12/06/22 16:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/29/22 10:10	11/30/22 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.79		0.20		mg/L			12/10/22 15:08	1
Total Dissolved Solids (SM 2540C)	1900		10		mg/L			11/22/22 02:58	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			12/06/22 09:53	10
Sulfate (SM 4500 SO4 E)	810		100		mg/L			11/29/22 12:02	20

Client Sample ID: MW-13

Date Collected: 11/16/22 13:52

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:48	12/06/22 16:12	1
Arsenic	0.029		0.0010		mg/L		12/06/22 08:48	12/06/22 16:12	1
Barium	0.21		0.0025		mg/L		12/06/22 08:48	12/06/22 16:12	1
Beryllium	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 16:12	1
Boron	2.6		0.050		mg/L		12/06/22 08:48	12/06/22 16:12	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 16:12	1
Calcium	250		0.20		mg/L		12/06/22 08:48	12/06/22 16:12	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:48	12/06/22 16:12	1

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Client Sample Results

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

Job ID: 500-225643-1

Client Sample ID: MW-13
Date Collected: 11/16/22 13:52
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 16:12	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 16:12	1
Lithium	<0.010		0.010		mg/L		12/06/22 08:48	12/09/22 22:32	1
Molybdenum	0.018		0.0050		mg/L		12/06/22 08:48	12/06/22 16:12	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:48	12/06/22 16:12	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:48	12/06/22 16:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/29/22 10:10	11/30/22 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.83		0.20		mg/L			12/10/22 15:20	1
Total Dissolved Solids (SM 2540C)	1800		10		mg/L			11/22/22 03:01	1
Chloride (SM 4500 Cl- E)	120		20		mg/L			12/06/22 09:53	10
Sulfate (SM 4500 SO4 E)	910		250		mg/L			11/29/22 11:48	50

Definitions/Glossary

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

Job ID: 500-225643-1

Qualifiers

Metals

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

Glossary

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

QC Association Summary

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

Job ID: 500-225643-1

Metals

Prep Batch: 687290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	7470A	
500-225643-2	MW-17	Total/NA	Water	7470A	
500-225643-3	Duplicate	Total/NA	Water	7470A	
500-225643-4	MW-13	Total/NA	Water	7470A	
MB 500-687290/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-687290/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 687538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	7470A	687290
500-225643-2	MW-17	Total/NA	Water	7470A	687290
500-225643-3	Duplicate	Total/NA	Water	7470A	687290
500-225643-4	MW-13	Total/NA	Water	7470A	687290
MB 500-687290/12-A	Method Blank	Total/NA	Water	7470A	687290
LCS 500-687290/13-A	Lab Control Sample	Total/NA	Water	7470A	687290

Prep Batch: 688397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total Recoverable	Water	3005A	
500-225643-2	MW-17	Total Recoverable	Water	3005A	
500-225643-3	Duplicate	Total Recoverable	Water	3005A	
500-225643-4	MW-13	Total Recoverable	Water	3005A	
MB 500-688397/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-688397/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-225643-1 MS	MW-15	Total Recoverable	Water	3005A	
500-225643-1 MSD	MW-15	Total Recoverable	Water	3005A	
500-225643-1 DU	MW-15	Total Recoverable	Water	3005A	

Analysis Batch: 689114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total Recoverable	Water	6020A	688397
500-225643-2	MW-17	Total Recoverable	Water	6020A	688397
500-225643-3	Duplicate	Total Recoverable	Water	6020A	688397
500-225643-4	MW-13	Total Recoverable	Water	6020A	688397
MB 500-688397/1-A	Method Blank	Total Recoverable	Water	6020A	688397
LCS 500-688397/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688397
500-225643-1 MS	MW-15	Total Recoverable	Water	6020A	688397
500-225643-1 MSD	MW-15	Total Recoverable	Water	6020A	688397
500-225643-1 DU	MW-15	Total Recoverable	Water	6020A	688397

Analysis Batch: 689195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total Recoverable	Water	6020A	688397
500-225643-2	MW-17	Total Recoverable	Water	6020A	688397
500-225643-3	Duplicate	Total Recoverable	Water	6020A	688397
500-225643-4	MW-13	Total Recoverable	Water	6020A	688397
MB 500-688397/1-A	Method Blank	Total Recoverable	Water	6020A	688397
LCS 500-688397/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688397
500-225643-1 MS	MW-15	Total Recoverable	Water	6020A	688397
500-225643-1 MSD	MW-15	Total Recoverable	Water	6020A	688397
500-225643-1 DU	MW-15	Total Recoverable	Water	6020A	688397

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QC Association Summary

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

Job ID: 500-225643-1

General Chemistry

Analysis Batch: 686397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	SM 2540C	
500-225643-2	MW-17	Total/NA	Water	SM 2540C	
500-225643-3	Duplicate	Total/NA	Water	SM 2540C	
500-225643-4	MW-13	Total/NA	Water	SM 2540C	
MB 500-686397/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-686397/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 687313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-225643-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-225643-3	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-225643-4	MW-13	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/217	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/218	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 688458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-225643-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-225643-3	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-225643-4	MW-13	Total/NA	Water	SM 4500 Cl- E	
MB 500-688458/48	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-688458/49	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 689508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	300.0	
500-225643-2	MW-17	Total/NA	Water	300.0	
500-225643-3	Duplicate	Total/NA	Water	300.0	
500-225643-4	MW-13	Total/NA	Water	300.0	
MB 500-689508/3	Method Blank	Total/NA	Water	300.0	
LCS 500-689508/4	Lab Control Sample	Total/NA	Water	300.0	

QC Sample Results

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

Job ID: 500-225643-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-688397/1-A
Matrix: Water
Analysis Batch: 689114

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:48	12/06/22 15:41	1
Arsenic	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 15:41	1
Barium	<0.0025		0.0025		mg/L		12/06/22 08:48	12/06/22 15:41	1
Beryllium	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 15:41	1
Boron	<0.050		0.050		mg/L		12/06/22 08:48	12/06/22 15:41	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 15:41	1
Calcium	<0.20		0.20		mg/L		12/06/22 08:48	12/06/22 15:41	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:48	12/06/22 15:41	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:48	12/06/22 15:41	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:48	12/06/22 15:41	1
Molybdenum	<0.0050		0.0050		mg/L		12/06/22 08:48	12/06/22 15:41	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:48	12/06/22 15:41	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:48	12/06/22 15:41	1

Lab Sample ID: MB 500-688397/1-A
Matrix: Water
Analysis Batch: 689195

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		12/06/22 08:48	12/09/22 22:01	1

Lab Sample ID: LCS 500-688397/2-A
Matrix: Water
Analysis Batch: 689114

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0927		mg/L		93	80 - 120
Barium	2.00	2.07		mg/L		103	80 - 120
Beryllium	0.0500	0.0479		mg/L		96	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Molybdenum	1.00	0.965		mg/L		97	80 - 120
Selenium	0.100	0.0965		mg/L		96	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-688397/2-A
Matrix: Water
Analysis Batch: 689195

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 688397

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

QC Sample Results

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

Job ID: 500-225643-1

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

Lab Sample ID: 500-225643-1 MS
Matrix: Water
Analysis Batch: 689114

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limits
Antimony	<0.0030		0.500	0.536		mg/L		107	75 - 125	
Arsenic	0.012		0.100	0.106		mg/L		94	75 - 125	
Barium	0.068		2.00	2.12		mg/L		103	75 - 125	
Beryllium	<0.0010		0.0500	0.0470		mg/L		94	75 - 125	
Boron	1.3		1.00	2.11		mg/L		83	75 - 125	
Cadmium	<0.00050		0.0500	0.0497		mg/L		99	75 - 125	
Calcium	210		10.0	203	4	mg/L		-98	75 - 125	
Chromium	<0.0050		0.200	0.197		mg/L		98	75 - 125	
Cobalt	<0.0010		0.500	0.494		mg/L		99	75 - 125	
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	
Molybdenum	0.050		1.00	1.07		mg/L		102	75 - 125	
Selenium	<0.0025		0.100	0.106		mg/L		105	75 - 125	
Thallium	<0.0020		0.100	0.105		mg/L		105	75 - 125	

Lab Sample ID: 500-225643-1 MS
Matrix: Water
Analysis Batch: 689195

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limits
Lithium	0.026		0.500	0.497		mg/L		94	75 - 125	

Lab Sample ID: 500-225643-1 MSD
Matrix: Water
Analysis Batch: 689114

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.527		mg/L		105	75 - 125	2	20	
Arsenic	0.012		0.100	0.107		mg/L		95	75 - 125	1	20	
Barium	0.068		2.00	2.14		mg/L		104	75 - 125	1	20	
Beryllium	<0.0010		0.0500	0.0441		mg/L		88	75 - 125	7	20	
Boron	1.3		1.00	2.14		mg/L		87	75 - 125	1	20	
Cadmium	<0.00050		0.0500	0.0491		mg/L		98	75 - 125	1	20	
Calcium	210		10.0	203	4	mg/L		-98	75 - 125	0	20	
Chromium	<0.0050		0.200	0.201		mg/L		101	75 - 125	2	20	
Cobalt	<0.0010		0.500	0.497		mg/L		99	75 - 125	0	20	
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	1	20	
Molybdenum	0.050		1.00	1.07		mg/L		102	75 - 125	0	20	
Selenium	<0.0025		0.100	0.105		mg/L		104	75 - 125	1	20	
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	1	20	

Lab Sample ID: 500-225643-1 MSD
Matrix: Water
Analysis Batch: 689195

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	Limits	RPD	Limit
Lithium	0.026		0.500	0.483		mg/L		91	75 - 125	3	20	

QC Sample Results

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

Job ID: 500-225643-1

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

Lab Sample ID: 500-225643-1 DU
Matrix: Water
Analysis Batch: 689114

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.012		0.0106		mg/L		9	20
Barium	0.068		0.0629		mg/L		8	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	1.3		1.18		mg/L		8	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	210		195		mg/L		9	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.050		0.0455		mg/L		10	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-225643-1 DU
Matrix: Water
Analysis Batch: 689195

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 688397

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Lithium	0.026		0.0263		mg/L		3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-687290/12-A
Matrix: Water
Analysis Batch: 687538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687290

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		11/29/22 10:10	11/30/22 08:26	1

Lab Sample ID: LCS 500-687290/13-A
Matrix: Water
Analysis Batch: 687538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687290

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-689508/3
Matrix: Water
Analysis Batch: 689508

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.20		0.20		mg/L			12/10/22 14:17	1

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QC Sample Results

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

Job ID: 500-225643-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-689508/4
Matrix: Water
Analysis Batch: 689508

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.05		mg/L		105	90 - 110

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

Lab Sample ID: MB 500-686397/1
Matrix: Water
Analysis Batch: 686397

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			11/22/22 02:25	1

Lab Sample ID: LCS 500-686397/2
Matrix: Water
Analysis Batch: 686397

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	252		mg/L		101	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-688458/48
Matrix: Water
Analysis Batch: 688458

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			12/06/22 09:48	1

Lab Sample ID: LCS 500-688458/49
Matrix: Water
Analysis Batch: 688458

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	85 - 115

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-687313/217
Matrix: Water
Analysis Batch: 687313

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			11/29/22 11:44	1

Lab Sample ID: LCS 500-687313/218
Matrix: Water
Analysis Batch: 687313

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

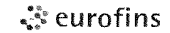
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	23.2		mg/L		116	88 - 123

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Eurofins Chicago

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

Chain of Custody Record



Environment Test ng

Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No: 500-106665-44026 1								
Client Contact: Mitchel Dolan		Phone <i>262-278-1621</i>		E-Mail Diana.Mockler@et.eurofinsus.com		State of Origin IL		Page Page 1 of 1								
Company KPRG and Associates Inc		PWSID		Analysis Requested				Job #: <i>500-225643</i>								
Address 414 Plaza Drive Suite 106		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>2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E</td> <td>903.0 - Radium 226</td> <td>904.0 - Radium 228</td> <td>Ra226Ra228_GFPC - Rad Combined</td> <td>6010C, 6020A, 7470A</td> </tr> </table>				Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226					904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A						
City Westmont		TAT Requested (days): <i>Standard</i>						A HCL		M Hexane						
State, Zip IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						B NaOH		N None						
Phone 262-781-0475(Tel)		PO # 4502081030						C Zn Acetate		O AsNaO2						
Email mitcheld@kprginc.com		WO #:		D Nitric Acid		P Na2O4S										
Project Name Powerton CCR MCB		Project # 50018578		E NaHSO4		Q Na2SO3										
Site		SSOW#		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:										

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)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers	Special Instructions/Note
<i>1</i> MW-15	<i>11/16/22</i>	<i>1030</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-17				Water									
<i>2</i> MW-17	<i>11/16/22</i>	<i>1220</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-18				Water									
MW-24				Water									
<i>3</i> Duplicate	<i>11/16/22</i>	<i>-</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-13	<i>11/16/22</i>	<i>1352</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
				Water									

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

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

Deliverable Requested I II III IV Other (specify) _____

Special Instructions/QC Requirements _____

Empty Kit Relinquished by:	Date	Time	Method of Shipment:
Relinquished by: <i>Kaelyn Sperle</i>	Date/Time: <i>11/16/22/1715</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>
Relinquished by:	Date/Time:	Company:	Received by: <i>Ami Smith</i>
Relinquished by:	Date/Time:	Company:	Received by: <i>ETA</i>

Custody Seals Intact: Yes No

Custody Seal No _____

Cooler Temperature(s) °C and Other Remarks: *1.5 -> 1.0*



500-225643 Waybl

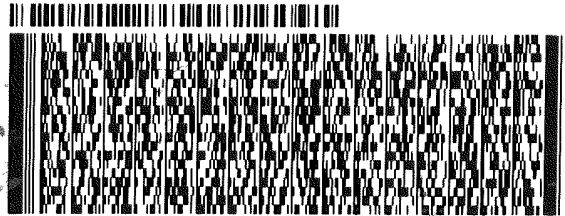
ORIGIN ID:PIAA (262) 278-1621
KAELYN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16NOV22
ACTWGT: 57.55 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN
BILL THIRD PARTY

Part # 156297-435 PBOB EXP 06/23
23 JPR 97155

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK IL 60484

(708) 534-5200 REF.
INU: DEPT.
PO:



FedEx
Express



AN108101422742Z

REL#
3785346

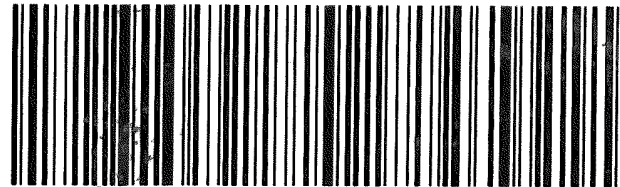
1 of 2

TRK# 3907 4264 9742
0201
MASTER

THU - 17 NOV 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US **ORD**



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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225643-1

Login Number: 225643

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
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 MCB

Job ID: 500-225643-1

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 15:48
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 22:08
Total/NA	Prep	7470A			687290	MJG	EET CHI	11/29/22 10:10 - 11/29/22 12:10 ¹
Total/NA	Analysis	7470A		1	687538	MJG	EET CHI	11/30/22 08:39
Total/NA	Analysis	300.0		1	689508	RES	EET CHI	12/10/22 14:55
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:53
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:52
Total/NA	Analysis	SM 4500 SO4 E		50	687313	LP	EET CHI	11/29/22 11:48

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 16:05
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 22:25
Total/NA	Prep	7470A			687290	MJG	EET CHI	11/29/22 10:10 - 11/29/22 12:10 ¹
Total/NA	Analysis	7470A		1	687538	MJG	EET CHI	11/30/22 08:42
Total/NA	Analysis	300.0		1	689508	RES	EET CHI	12/10/22 14:42
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:56
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:52
Total/NA	Analysis	SM 4500 SO4 E		20	687313	LP	EET CHI	11/29/22 11:48

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 16:09
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 22:29
Total/NA	Prep	7470A			687290	MJG	EET CHI	11/29/22 10:10 - 11/29/22 12:10 ¹
Total/NA	Analysis	7470A		1	687538	MJG	EET CHI	11/30/22 08:44
Total/NA	Analysis	300.0		1	689508	RES	EET CHI	12/10/22 15:08
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:58
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:53
Total/NA	Analysis	SM 4500 SO4 E		20	687313	LP	EET CHI	11/29/22 12:02

Lab Chronicle

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

Job ID: 500-225643-1

Client Sample ID: MW-13

Date Collected: 11/16/22 13:52

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 16:12
Total Recoverable	Prep	3005A			688397	BDE	EET CHI	12/06/22 08:48 - 12/06/22 09:18 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 22:32
Total/NA	Prep	7470A			687290	MJG	EET CHI	11/29/22 10:10 - 11/29/22 12:10 ¹
Total/NA	Analysis	7470A		1	687538	MJG	EET CHI	11/30/22 08:46
Total/NA	Analysis	300.0		1	689508	RES	EET CHI	12/10/22 15:20
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 03:01
Total/NA	Analysis	SM 4500 Cl- E		10	688458	LP	EET CHI	12/06/22 09:53
Total/NA	Analysis	SM 4500 SO4 E		50	687313	LP	EET CHI	11/29/22 11:48

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-225643-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/22/2022 8:02:39 AM

JOB DESCRIPTION

Powerton CCR MCB (RAD)

JOB NUMBER

500-225643-2

Eurofins Chicago

Job Notes

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

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Authorization



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Authorized for release by
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Case Narrative

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

Job ID: 500-225643-2

Job ID: 500-225643-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225643-2

Comments

No additional comments.

Receipt

The samples were received on 11/17/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

RAD

Method 903.0: Radium-226 batch 591257

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-15 (500-225643-1), (LCS 160-591257/2-A), (MB 160-591257/1-A), (380-28566-AQ-1-A) and (380-28566-AP-1-A DU)

Method 903.0: Radium-226 batch 591407

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 (500-225643-2), Duplicate (500-225643-3), MW-13 (500-225643-4), (LCS 160-591407/2-A), (MB 160-591407/1-A), (500-225637-E-1-A) and (500-225637-C-1-A DU)

Method 904.0: Radium-228 batch 591261

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-15 (500-225643-1), (LCS 160-591261/2-A), (MB 160-591261/1-A), (380-28566-AQ-1-B) and (380-28566-AP-1-B DU)

Method 904.0: Radium-228 batch 591417

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-13 (500-225643-4). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 591417

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 (500-225643-2), Duplicate (500-225643-3), MW-13 (500-225643-4), (LCS 160-591417/2-A), (MB 160-591417/1-A), (500-225637-E-1-B) and (500-225637-C-1-B 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 MCB (RAD)

Job ID: 500-225643-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

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Sample Summary

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

Job ID: 500-225643-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225643-1	MW-15	Water	11/16/22 10:30	11/17/22 10:10
500-225643-2	MW-17	Water	11/16/22 12:20	11/17/22 10:10
500-225643-3	Duplicate	Water	11/16/22 00:00	11/17/22 10:10
500-225643-4	MW-13	Water	11/16/22 13:52	11/17/22 10:10

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Client Sample Results

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

Job ID: 500-225643-2

Client Sample ID: MW-15

Lab Sample ID: 500-225643-1

Date Collected: 11/16/22 10:30

Matrix: Water

Date Received: 11/17/22 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136		0.0851	0.0860	1.00	0.0698	pCi/L	11/28/22 11:34	12/20/22 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					11/28/22 11:34	12/20/22 07:51	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	0.715		0.344	0.350	1.00	0.477	pCi/L	11/28/22 11:46	12/14/22 11:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					11/28/22 11:46	12/14/22 11:34	1
Y Carrier	89.0		40 - 110					11/28/22 11:46	12/14/22 11:34	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	0.851		0.354	0.360	5.00	0.477	pCi/L		12/20/22 17:30	1

Client Sample ID: MW-17

Lab Sample ID: 500-225643-2

Date Collected: 11/16/22 12:20

Matrix: Water

Date Received: 11/17/22 10:10

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	<0.155	U	0.0883	0.0884	1.00	0.155	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					11/29/22 09:20	12/21/22 12:29	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	0.955		0.445	0.454	1.00	0.608	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	81.9		40 - 110					11/29/22 09:44	12/15/22 12:04	1

Client Sample Results

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

Job ID: 500-225643-2

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-2

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.00		0.454	0.463	5.00	0.608	pCi/L		12/21/22 18:30	1

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-3

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	0.314		0.158	0.161	1.00	0.198	pCi/L	11/29/22 09:20	12/21/22 12:29	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.0		40 - 110					11/29/22 09:20	12/21/22 12:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.32		0.583	0.596	1.00	0.766	pCi/L	11/29/22 09:44	12/15/22 12:04	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.0		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	82.6		40 - 110					11/29/22 09:44	12/15/22 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.64		0.604	0.617	5.00	0.766	pCi/L		12/21/22 18:30	1

Client Sample ID: MW-13

Date Collected: 11/16/22 13:52

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-4

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	0.800		0.249	0.259	1.00	0.233	pCi/L	11/29/22 09:20	12/21/22 12:29	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	62.4		40 - 110					11/29/22 09:20	12/21/22 12:29	1

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Client Sample Results

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

Job ID: 500-225643-2

Client Sample ID: MW-13
Date Collected: 11/16/22 13:52
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-4
Matrix: Water

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	2.24	G	0.892	0.915	1.00	1.16	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.4		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	81.9		40 - 110					11/29/22 09:44	12/15/22 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.04		0.926	0.951	5.00	1.16	pCi/L		12/21/22 18:30	1



Definitions/Glossary

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

Job ID: 500-225643-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-225643-2

Rad

Prep Batch: 591257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	PrecSep-21	
MB 160-591257/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-591257/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 591261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-1	MW-15	Total/NA	Water	PrecSep_0	
MB 160-591261/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-591261/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 591407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-2	MW-17	Total/NA	Water	PrecSep-21	
500-225643-3	Duplicate	Total/NA	Water	PrecSep-21	
500-225643-4	MW-13	Total/NA	Water	PrecSep-21	
MB 160-591407/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-591407/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 591417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225643-2	MW-17	Total/NA	Water	PrecSep_0	
500-225643-3	Duplicate	Total/NA	Water	PrecSep_0	
500-225643-4	MW-13	Total/NA	Water	PrecSep_0	
MB 160-591417/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-591417/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-225643-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-591257/1-A
Matrix: Water
Analysis Batch: 594235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591257

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.0930	U	0.0835	0.0835	1.00	0.0930	pCi/L	11/28/22 11:34	12/20/22 07:48	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					11/28/22 11:34	12/20/22 07:48	1

Lab Sample ID: LCS 160-591257/2-A
Matrix: Water
Analysis Batch: 594235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591257

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits		
				Uncert. (2σ+/-)							
Radium-226	11.3	10.20		1.09	1.00	0.0856	pCi/L	90	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	93.0		40 - 110								

Lab Sample ID: MB 160-591407/1-A
Matrix: Water
Analysis Batch: 594432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591407

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.128	U	0.0706	0.0707	1.00	0.128	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					11/29/22 09:20	12/21/22 12:27	1

Lab Sample ID: LCS 160-591407/2-A
Matrix: Water
Analysis Batch: 594432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591407

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits		
				Uncert. (2σ+/-)							
Radium-226	11.3	10.44		1.10	1.00	0.139	pCi/L	92	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	96.4		40 - 110								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-591261/1-A
Matrix: Water
Analysis Batch: 593574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591261

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5251		0.301	0.305	1.00	0.258	pCi/L	11/28/22 11:46	12/14/22 11:33	1

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QC Sample Results

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

Job ID: 500-225643-2

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110	11/28/22 11:46	12/14/22 11:33	1
Y Carrier	86.7		40 - 110	11/28/22 11:46	12/14/22 11:33	1

Lab Sample ID: LCS 160-591261/2-A
 Matrix: Water
 Analysis Batch: 593574

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 591261

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.36	9.472		1.27	1.00	0.348	pCi/L	113	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.0		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-591417/1-A
 Matrix: Water
 Analysis Batch: 593777

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 591417

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.452	U	0.298	0.300	1.00	0.452	pCi/L	11/29/22 09:44	12/15/22 12:01	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110	11/29/22 09:44	12/15/22 12:01	1
Y Carrier	83.4		40 - 110	11/29/22 09:44	12/15/22 12:01	1

Lab Sample ID: LCS 160-591417/2-A
 Matrix: Water
 Analysis Batch: 593777

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 591417

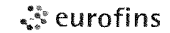
Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.36	9.304		1.27	1.00	0.509	pCi/L	111	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.4		40 - 110
Y Carrier	83.0		40 - 110

Eurofins Chicago

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

Chain of Custody Record



Environment Test ng

Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No: 500-106665-44026 1																																											
Client Contact: Mitchel Dolan		Phone <i>262-278-1621</i>		E-Mail Diana.Mockler@et.eurofinsus.com		State of Origin <i>IL</i>		Page Page 1 of 1																																											
Company KPRG and Associates Inc		PWSID		Analysis Requested						Job #: <i>500-225643</i>																																									
Address 414 Plaza Drive Suite 106		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>2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E</td> <td>903.0 - Radium 226</td> <td>904.0 - Radium 228</td> <td>Ra226Ra228_GFPC - Rad Combined</td> <td>6010C, 6020A, 7470A</td> <td rowspan="5">Total Number of Containers</td> </tr> <tr> <td>TAT Requested (days):</td> <td colspan="7"><i>Standard</i></td> </tr> <tr> <td>Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="7"></td> </tr> <tr> <td>PO #</td> <td colspan="7">4502081030</td> </tr> <tr> <td>WO #</td> <td colspan="7"></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers	TAT Requested (days):	<i>Standard</i>							Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								PO #	4502081030							WO #								Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226							904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers																																						
TAT Requested (days):	<i>Standard</i>																																																		
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																			
PO #	4502081030																																																		
WO #																																																			
City Westmont		TAT Requested (days):		A HCL		M Hexane		N None																																											
State, Zip IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		B NaOH		O AsNaO2		P Na2O4S																																											
Phone 262-781-0475(Tel)		Project #		C Zn Acetate		Q Na2SO3		R Na2S2O3																																											
Email mitcheld@kprginc.com		SSOW#		D Nitric Acid		S H2SO4		T TSP Dodecahydrate																																											
Project Name Powerton CCR MCB		Project #		E NaHSO4		U Acetone		V MCAA																																											
Site		SSOW#		F MeOH		W pH 4-5		Y Trizma																																											
				G Amchlor		Z other (specify)		Other																																											
				H Ascorbic Acid																																															
				I Ice																																															
				J DI Water																																															
				K EDTA																																															
				L EDA																																															

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)	2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers	Special Instructions/Note
<i>1</i> MW-15	<i>11/16/22</i>	<i>1030</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-17				Water									
<i>2</i> MW-17	<i>11/16/22</i>	<i>1220</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-13				Water									
MW-24				Water									
<i>3</i> Duplicate	<i>11/16/22</i>	<i>-</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-13	<i>11/16/22</i>	<i>1352</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
				Water									

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

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

Deliverable Requested I II III IV Other (specify) _____ Special Instructions/QC Requirements _____

Empty Kit Relinquished by:	Date	Time	Method of Shipment:
Relinquished by: <i>Kaelyn Sperle</i>	Date/Time: <i>11/16/22/1715</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>
Relinquished by:	Date/Time:	Company:	Received by: <i>Ami Smith</i>
Relinquished by:	Date/Time:	Company:	Received by: <i>ETA</i>

Custody Seals Intact: Yes No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: *1.5 → 1.0*



500-225643 Waybl

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

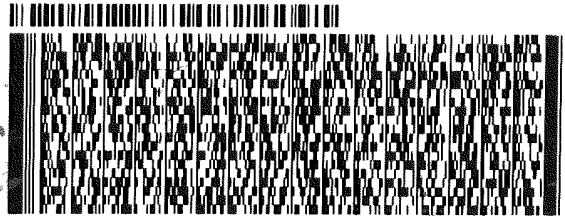
SHIP DATE: 16NOV22
ACTWGT: 57.55 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN
BILL THIRD PARTY

Part # 156297-435 PBO9 EXP 06/23
23 JPR 57 97155

TO **EUROFINS CHICAGO**
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200 REF.
INU: DEPT.
PO:



FedEx
Express



AN108101422742Z

REL#
3785346

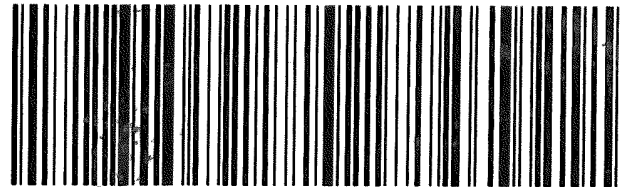
1 of 2

TRK# 3907 4264 9742
0201
MASTER

THU - 17 NOV 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US **ORD**



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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab: PY Mackler, Diana J		GOC No: 500-167759-1	
Client Contact: University Park, IL 60484 Phone: 708-534-5200 Fax: 708-534-5211		Shipping/Receiving: Diana Mackler Diana.Mackler@et.eurofins.com Accounting/Receiving (See Note): NELAP - Illinois		Page: 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City MO, 63045		State of Origin: Illinois	
Due Date Requested: 12/12/2022		PO #:		GOC F: 500-225643-2	
TAT Requested (days):		WO #:		Preservation Codes: A - HCL B - NaOH C - Ash/AQ2 D - Nitric Acid E - NH4SO4 F - MeOH G - Ammonia H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA M - Sodium Hydroxide N - None O - Ash/AQ2 P - NH4SO4 Q - NH4SO4 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - Sodium Hydroxide X - Sodium Hydroxide Y - Toms Z - other (specify)	
Project Name: Povontion CCR MCB (RAD)		Project #: 50018578		Other:	
Site: SSOW#		SSOW#		Other:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Overhead, BFTank, Acid)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	Analysis Requested		Total Number of Containers	Special Instructions/Note:
							90.0/Precep, 21 Standard Target List	90.4/Precep, 0 Standard Target List		
MW-15 (500-225643-1)	11/16/22	10:30 Central	Water	Water	X	X	X	X	3	Full OC needed (dups, etc) Batch OC must be performed (dup, spikes, etc) - no
MW-17 (500-225643-2)	11/16/22	12:20 Central	Water	Water	X	X	X	X	3	Full OC needed (dups, etc) Batch OC must be performed (dup, spikes, etc) - no
Duplicate (500-225643-3)	11/16/22	Central	Water	Water	X	X	X	X	3	Full OC needed (dups, etc) Batch OC must be performed (dup, spikes, etc) - no
MW-13 (500-225643-4)	11/16/22	13:52 Central	Water	Water	X	X	X	X	3	Full OC needed (dups, spikes, etc) - no

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

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Special Instructions/OC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Reinquished by: _____ Date: _____ Time: _____
 Reinquished by: Hilary Carbyal Date/Time: 11/18/22 1600 Company: FEDEX
 Reinquished by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____
 Received by: Helen P... Date/Time: NOV 9 2022 0930 Company: FEDEX
 Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225643-2

Login Number: 225643

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
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: 500-225643-2

Login Number: 225643

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 11/21/22 01:55 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	

Lab Chronicle

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

Job ID: 500-225643-2

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591257	BMP	EET SL	11/28/22 11:34
Total/NA	Analysis	903.0		1	594235	FLC	EET SL	12/20/22 07:51
Total/NA	Prep	PrecSep_0			591261	BMP	EET SL	11/28/22 11:46
Total/NA	Analysis	904.0		1	593574	FLC	EET SL	12/14/22 11:34
Total/NA	Analysis	Ra226_Ra228		1	594406	CLP	EET SL	12/20/22 17:30

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: MW-13

Date Collected: 11/16/22 13:52

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225643-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-225643-2

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 MCB (RAD)

Job ID: 500-225643-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-225643-1	MW-15	98.5
500-225643-2	MW-17	87.4
500-225643-3	Duplicate	83.0
500-225643-4	MW-13	62.4
LCS 160-591257/2-A	Lab Control Sample	93.0
LCS 160-591407/2-A	Lab Control Sample	96.4
MB 160-591257/1-A	Method Blank	94.9
MB 160-591407/1-A	Method Blank	97.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-225643-1	MW-15	98.5	89.0
500-225643-2	MW-17	87.4	81.9
500-225643-3	Duplicate	83.0	82.6
500-225643-4	MW-13	62.4	81.9
LCS 160-591261/2-A	Lab Control Sample	93.0	86.4
LCS 160-591417/2-A	Lab Control Sample	96.4	83.0
MB 160-591261/1-A	Method Blank	94.9	86.7
MB 160-591417/1-A	Method Blank	97.1	83.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-13	Start Time	1340	
Condition of Well	good			
Water Level	32.96	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	sl. cloudy	
Volume Removed	1 qt	WL at Sample Time		
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	sl. cloudy	
Sample Analysis	CCA*, CCR/MB	Sample Time	1352	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1342	32.96	8.88	15.7	2.006	6.38	44.9	4.21
1345	-	8.19	15.1	2.004	5.83	29.7	4.35
1348	-	8.04	14.4	1.996	5.55	13.0	4.55
1351		7.97	13.5	1.996	5.41	-1.6	4.82

SAMPLING NOTES: *CCA Sampling Time: 11/17/22/1131

MCB Duplicate

Paused sampling at 1423; WILL continue tomorrow with other CCA wells.

CONT'D 11/18/22 at 1113
 Sampler Name and
 Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/17/22
Sample Name	MW-14	Start Time	0950	
Condition of Well	good			
Water Level	31.58	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	1 qt	W L at Sample Time		
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA, CCR MCB	Sample Time	1009	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0959	31.58	6.79	11.7	2.089	4.17	71.1	78.33
1002	-	6.88	11.0	2.086	3.49	70.5	65.05
1005	-	6.92	10.3	2.085	3.02	70.0	45.82
1008		6.93	9.9	2.071	2.47	69.3	31.69

SAMPLING NOTES:

PAUSE AT 1120. CONTINUED AT 1308. PAUSE AT 1338.

INSUFFICIENT WATER VOLUME IN WELL TO FINISH SAMPLING CCA, CCR MCB

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-15	Start Time	1018	
Condition of Well	good			
Water Level	26.21	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	cloudy, orange	
Volume Removed	4 gts	WL at Sample Time		
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA*, CCR ABB/ASB & MCB	Sample Time	1030	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1020	26.21	7.64	13.1	2.265	7.92	28.8	13.25
1023	-	7.36	14.6	1.904	3.92	32.2	547.66
1026	-	7.30	15.0	1.906	2.12	13.3	262.48
1029		7.26	15.0	1.905	1.54	-20.0	55.82

SAMPLING NOTES: *CCA sampling time: 11/17/22/0903
 paused sampling at 1153 to allow well to recharge; cont'd ABB/ASB sampling at 1433.
 paused at 1514, to leave CCA for tomorrow. 11/17/22, START AT 0903, paused at 0950, CONT'D at
 1228. PAUSED AT 1300, CONTINUED 1400, PAUSED 1424

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG - POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-17	Start Time	1203	
Condition of Well	good			
Water Level	27.73	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	orange, cloudy	
Volume Removed	0.5 gts	WL at Sample Time		
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	orange tint, sl. cloudy	
Sample Analysis	MCB ABB/ASB	Sample Time	1220	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1210	27.73	8.04	11.3	1.676	7.50	45.7	312.56
1213	-	7.76	10.8	1.660	5.77	48.8	241.05
1216	-	7.61	10.5	1.666	4.86	50.3	167.77
1219		7.56	10.0	1.668	4.53	50.9	116.69

SAMPLING NOTES:

Paused at 1330 to allow well to recharge; resumed at 1524; paused for day at 1612 to resume 11/17/22. Started at 0730 on 11/17/22 to finish ABB/ASB sampling. PAUSE at 0856 to allow well to recharge. RESTART AT 1200. FINISH SAMPLING at 1220

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	11/17/22
Sample Name	MW-20	Start Time		
Condition of Well	good			
Water Level	32.55	Total Depth		
Well Diameter	PVC – 2 inch	Volume in Well		
Method of Purge	Low-Flow	Purge Characteristics		
Volume Removed		WL at Sample Time		
Method of Sample	Low-Flow	Sample Characteristics		
Sample Analysis	CCR MCB	Sample Time		
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)

SAMPLING NOTES:
INSUFFICIENT WATER FOR SAMPLING & READINGS

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	11/17/22
Sample Name	MW-21	Start Time		
Condition of Well	good			
Water Level	32.59	Total Depth		
Well Diameter	PVC - 2 inch	Volume in Well		
Method of Purge	Low-Flow	Purge Characteristics		
Volume Removed		W.L. at Sample Time		
Method of Sample	Low-Flow	Sample Characteristics		
Sample Analysis	CCR MCB	Sample Time		
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	pH (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)

SAMPLING NOTES:
INSUFFICIENT WATER FOR SAMPLING & READINGS

Sampler Name and Company: KPRG and Associates KLS