



Illinois Power Generating Company
1500 Eastport Plaza Drive
Collinsville, IL 62234

January 20, 2024

Illinois Environmental Protection Agency
DWPC – Permits MC#15
Attn: Part 845 Coal Combustion Residual Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794

Re: Coffeen Power Plant Ash Pond No. 2; IEPA ID # W1350150004-02

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Illinois Power Generating Company (IPGC) is submitting groundwater monitoring data for the Quarter 3, 2023 sampling event at the Coffeen Power Plant Ash Pond Number (No.) 2, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1350150004-02. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS.

The date of this submittal is considered to be the date that exceedances of the GWPSs were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16).

As allowed in 35 I.A.C. § 845.650(e), alternative source demonstrations (ASDs) were submitted on December 15, 2023 for the exceedances of the cobalt GWPS detected at monitoring well G401 and exceedances of the sulfate and total dissolved solids GWPS detected at monitoring well G407 during the Quarter 2, 2023 sampling event. The IEPA provided written responses on January 11, 2024 that did not concur with the ASDs. Therefore, a Corrective Measures Assessment (CMA) was initiated on January 14, 2024 in accordance with 35 I.A.C. § 845.660.

Sincerely,

A handwritten signature in blue ink that reads "Dianna Tickner".

Dianna Tickner, PE, PMP
Senior Director, Demolition and Decommission

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 3, 2023, Ash Pond No. 2, Coffeen Power Plant, Coffeen, Illinois

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2023
ASH POND NO. 2, COFFEEN POWER PLANT, COFFEEN, ILLINOIS

January 20, 2024

Samples were collected on August 10-11 and August 14, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on November 21, 2023.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 2023 sampling event. The field team was unable to locate and/or access staff gages SG-02 and SG-04 and monitoring well G1003 was dry; therefore, groundwater elevation data were not recorded for this sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 3, 2023 sampling event. Monitoring well G1001 had an insufficient quantity of water to sample; therefore, groundwater samples were not collected for this sampling event. A groundwater elevation was not able to be obtained at monitoring locations SG02 and SG04 for this monitoring event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 3, 2023 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS, as shown in **Table 2**. The date of this submittal is considered to be the date that the exceedances were detected.

As allowed in 35 I.A.C. § 845.650(e), alternative source demonstrations^{2,3} (ASDs) were submitted on December 15, 2023 for the exceedances of the cobalt GWPS detected at monitoring well G401 and exceedances of the sulfate and total dissolved solids GWPS detected at monitoring well G407 during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided written

¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Ash Pond No. 2. Coffeen Power Plant. Coffeen, Illinois. October 25, 2021.*

² Geosyntec Consultants, Inc., 2023. *Alternative Source Demonstration, Coffeen Power Plant Ash Pond No. 2 (Unit ID #102), IEPA ID: W1350150004-02. 35 I.A.C 845.650. December 15, 2023.*

³ Geosyntec Consultants, Inc., 2023. *Alternative Source Demonstration – G407 Sulfate and Total Dissolved Solids, Coffeen Power Plant Ash Pond No. 2 (Unit ID #102), IEPA ID: W1350150004-02. 35 I.A.C 845.650. December 15, 2023.*

responses on January 11, 2024^{4,5} that did not concur with the ASDs. Therefore, a Corrective Measures Assessment (CMA) was initiated on January 14, 2024 in accordance with 35 I.A.C. § 845.660.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 3, 2023
Table 2	Comparison of Statistical Results to GWPS - Quarter 3, 2023

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 3, 2023
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 3, 2023
Attachment C	Comparison of Statistical Results to Background - Quarter 3, 2023

⁴ Illinois Environmental Protection Agency (IEPA), 2024. *Letter from Darin E. LeCrone, P.E. (IEPA) to Dianna Tickner (Electric Energy, Inc.): Re: Coffeen Power Plant Ash Pond No. 2; W1350150004-02, Alternative Soruce Demonstration Submittal.* January 11, 2024.

⁵ Illinois Environmental Protection Agency (IEPA), 2024. *Letter from Darin E. LeCrone, P.E. (IEPA) to Dianna Tickner (Electric Energy, Inc.): Re: Coffeen Power Plant Ash Pond No. 2; W1350150004-02, Alternative Soruce Demonstration Submittal.* January 11, 2024.

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G270	Background	E002	08/14/2023	Antimony, total	0.0008 U	mg/L
G270	Background	E002	08/14/2023	Arsenic, total	0.0004 U	mg/L
G270	Background	E002	08/14/2023	Barium, total	0.0467	mg/L
G270	Background	E002	08/14/2023	Beryllium, total	0.0002 U	mg/L
G270	Background	E002	08/14/2023	Boron, total	0.0092 U	mg/L
G270	Background	E002	08/14/2023	Cadmium, total	0.0002 U	mg/L
G270	Background	E002	08/14/2023	Calcium, total	57.9	mg/L
G270	Background	E002	08/14/2023	Chloride, total	13.0	mg/L
G270	Background	E002	08/14/2023	Chromium, total	0.0009 J	mg/L
G270	Background	E002	08/14/2023	Cobalt, total	0.0003 J	mg/L
G270	Background	E002	08/14/2023	Dissolved Oxygen	1.64	mg/L
G270	Background	E002	08/14/2023	Fluoride, total	0.350 J+	mg/L
G270	Background	E002	08/14/2023	Lead, total	0.0006 U	mg/L
G270	Background	E002	08/14/2023	Lithium, total	0.0029 J	mg/L
G270	Background	E002	08/14/2023	Mercury, total	0.00009 U	mg/L
G270	Background	E002	08/14/2023	Molybdenum, total	0.0008 J	mg/L
G270	Background	E002	08/14/2023	Oxidation Reduction Potential	78.0	mV
G270	Background	E002	08/14/2023	pH (field)	6.8	SU
G270	Background	E002	08/14/2023	Radium 226 + Radium 228, total	0.661	pCi/L
G270	Background	E002	08/14/2023	Selenium, total	0.0006 U	mg/L
G270	Background	E002	08/14/2023	Specific Conductance @ 25C (field)	936	micromhos/cm
G270	Background	E002	08/14/2023	Sulfate, total	48.0 J+	mg/L
G270	Background	E002	08/14/2023	Temperature	15.2	degrees C
G270	Background	E002	08/14/2023	Thallium, total	0.001 U	mg/L
G270	Background	E002	08/14/2023	Total Dissolved Solids	426	mg/L
G270	Background	E002	08/14/2023	Turbidity, field	5.30	NTU
G280	Background	E002	08/14/2023	Antimony, total	0.0009 J	mg/L
G280	Background	E002	08/14/2023	Arsenic, total	0.0004 U	mg/L
G280	Background	E002	08/14/2023	Barium, total	0.0531	mg/L
G280	Background	E002	08/14/2023	Beryllium, total	0.0002 U	mg/L
G280	Background	E002	08/14/2023	Boron, total	0.0092 U	mg/L
G280	Background	E002	08/14/2023	Cadmium, total	0.0002 U	mg/L
G280	Background	E002	08/14/2023	Calcium, total	79.5	mg/L
G280	Background	E002	08/14/2023	Chloride, total	70.0	mg/L
G280	Background	E002	08/14/2023	Chromium, total	0.0013 J	mg/L
G280	Background	E002	08/14/2023	Cobalt, total	0.0003 J	mg/L
G280	Background	E002	08/14/2023	Dissolved Oxygen	1.01	mg/L
G280	Background	E002	08/14/2023	Fluoride, total	0.310 J+	mg/L
G280	Background	E002	08/14/2023	Lead, total	0.0006 U	mg/L
G280	Background	E002	08/14/2023	Lithium, total	0.00440	mg/L
G280	Background	E002	08/14/2023	Mercury, total	0.00006 U	mg/L
G280	Background	E002	08/14/2023	Molybdenum, total	0.0006 J	mg/L
G280	Background	E002	08/14/2023	Oxidation Reduction Potential	31.0	mV
G280	Background	E002	08/14/2023	pH (field)	7.4	SU
G280	Background	E002	08/14/2023	Radium 226 + Radium 228, total	0.609	pCi/L
G280	Background	E002	08/14/2023	Selenium, total	0.0006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G280	Background	E002	08/14/2023	Specific Conductance @ 25C (field)	1,480	micromhos/cm
G280	Background	E002	08/14/2023	Sulfate, total	91.0	mg/L
G280	Background	E002	08/14/2023	Temperature	15.5	degrees C
G280	Background	E002	08/14/2023	Thallium, total	0.001 U	mg/L
G280	Background	E002	08/14/2023	Total Dissolved Solids	594	mg/L
G280	Background	E002	08/14/2023	Turbidity, field	8.50	NTU
G281	Background	E002	08/14/2023	Antimony, total	0.0008 U	mg/L
G281	Background	E002	08/14/2023	Arsenic, total	0.0004 U	mg/L
G281	Background	E002	08/14/2023	Barium, total	0.0707	mg/L
G281	Background	E002	08/14/2023	Beryllium, total	0.0002 U	mg/L
G281	Background	E002	08/14/2023	Boron, total	0.0092 U	mg/L
G281	Background	E002	08/14/2023	Cadmium, total	0.0002 U	mg/L
G281	Background	E002	08/14/2023	Calcium, total	137	mg/L
G281	Background	E002	08/14/2023	Chloride, total	88.0	mg/L
G281	Background	E002	08/14/2023	Chromium, total	0.0007 U	mg/L
G281	Background	E002	08/14/2023	Cobalt, total	0.0004 J	mg/L
G281	Background	E002	08/14/2023	Dissolved Oxygen	1.74	mg/L
G281	Background	E002	08/14/2023	Fluoride, total	0.300 J+	mg/L
G281	Background	E002	08/14/2023	Lead, total	0.0006 U	mg/L
G281	Background	E002	08/14/2023	Lithium, total	0.00420	mg/L
G281	Background	E002	08/14/2023	Mercury, total	0.00006 U	mg/L
G281	Background	E002	08/14/2023	Molybdenum, total	0.0006 U	mg/L
G281	Background	E002	08/14/2023	Oxidation Reduction Potential	102	mV
G281	Background	E002	08/14/2023	pH (field)	6.8	SU
G281	Background	E002	08/14/2023	Radium 226 + Radium 228, total	0.667	pCi/L
G281	Background	E002	08/14/2023	Selenium, total	0.0006 U	mg/L
G281	Background	E002	08/14/2023	Specific Conductance @ 25C (field)	1,740	micromhos/cm
G281	Background	E002	08/14/2023	Sulfate, total	268	mg/L
G281	Background	E002	08/14/2023	Temperature	18.6	degrees C
G281	Background	E002	08/14/2023	Thallium, total	0.001 U	mg/L
G281	Background	E002	08/14/2023	Total Dissolved Solids	930	mg/L
G281	Background	E002	08/14/2023	Turbidity, field	6.40	NTU
G401	Compliance	E002	08/11/2023	Antimony, total	0.0006 U	mg/L
G401	Compliance	E002	08/11/2023	Arsenic, total	0.0009 J	mg/L
G401	Compliance	E002	08/11/2023	Barium, total	0.0118	mg/L
G401	Compliance	E002	08/11/2023	Beryllium, total	0.0002 U	mg/L
G401	Compliance	E002	08/11/2023	Boron, total	4.24	mg/L
G401	Compliance	E002	08/11/2023	Cadmium, total	0.0003 J	mg/L
G401	Compliance	E002	08/11/2023	Calcium, total	509	mg/L
G401	Compliance	E002	08/11/2023	Chloride, total	3 J	mg/L
G401	Compliance	E002	08/11/2023	Chromium, total	0.0007 U	mg/L
G401	Compliance	E002	08/11/2023	Cobalt, total	0.156	mg/L
G401	Compliance	E002	08/11/2023	Dissolved Oxygen	0.500	mg/L
G401	Compliance	E002	08/11/2023	Fluoride, total	0.190 J+	mg/L
G401	Compliance	E002	08/11/2023	Lead, total	0.0006 U	mg/L
G401	Compliance	E002	08/11/2023	Lithium, total	0.0257	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G401	Compliance	E002	08/11/2023	Mercury, total	0.00006 U	mg/L
G401	Compliance	E002	08/11/2023	Molybdenum, total	0.0006 U	mg/L
G401	Compliance	E002	08/11/2023	Oxidation Reduction Potential	-30.0	mV
G401	Compliance	E002	08/11/2023	pH (field)	6.0	SU
G401	Compliance	E002	08/11/2023	Radium 226 + Radium 228, total	0.549	pCi/L
G401	Compliance	E002	08/11/2023	Selenium, total	0.0006 U	mg/L
G401	Compliance	E002	08/11/2023	Specific Conductance @ 25C (field)	4,910	micromhos/cm
G401	Compliance	E002	08/11/2023	Sulfate, total	1,900	mg/L
G401	Compliance	E002	08/11/2023	Temperature	17.5	degrees C
G401	Compliance	E002	08/11/2023	Thallium, total	0.001 U	mg/L
G401	Compliance	E002	08/11/2023	Total Dissolved Solids	3,040	mg/L
G401	Compliance	E002	08/11/2023	Turbidity, field	6.80	NTU
G402	Compliance	E002	08/11/2023	Antimony, total	0.0006 U	mg/L
G402	Compliance	E002	08/11/2023	Arsenic, total	0.00410	mg/L
G402	Compliance	E002	08/11/2023	Barium, total	0.0290	mg/L
G402	Compliance	E002	08/11/2023	Beryllium, total	0.0002 U	mg/L
G402	Compliance	E002	08/11/2023	Boron, total	5.71	mg/L
G402	Compliance	E002	08/11/2023	Cadmium, total	0.0002 U	mg/L
G402	Compliance	E002	08/11/2023	Calcium, total	212	mg/L
G402	Compliance	E002	08/11/2023	Chloride, total	3 J	mg/L
G402	Compliance	E002	08/11/2023	Chromium, total	0.00340	mg/L
G402	Compliance	E002	08/11/2023	Cobalt, total	0.00240	mg/L
G402	Compliance	E002	08/11/2023	Dissolved Oxygen	8.19	mg/L
G402	Compliance	E002	08/11/2023	Fluoride, total	0.340 J+	mg/L
G402	Compliance	E002	08/11/2023	Lead, total	0.00250	mg/L
G402	Compliance	E002	08/11/2023	Lithium, total	0.0240	mg/L
G402	Compliance	E002	08/11/2023	Mercury, total	0.00006 U	mg/L
G402	Compliance	E002	08/11/2023	Molybdenum, total	0.00240	mg/L
G402	Compliance	E002	08/11/2023	Oxidation Reduction Potential	23.0	mV
G402	Compliance	E002	08/11/2023	pH (field)	7.3	SU
G402	Compliance	E002	08/11/2023	Radium 226 + Radium 228, total	1.28	pCi/L
G402	Compliance	E002	08/11/2023	Selenium, total	0.0006 U	mg/L
G402	Compliance	E002	08/11/2023	Specific Conductance @ 25C (field)	2,820	micromhos/cm
G402	Compliance	E002	08/11/2023	Sulfate, total	601	mg/L
G402	Compliance	E002	08/11/2023	Temperature	18.1	degrees C
G402	Compliance	E002	08/11/2023	Thallium, total	0.001 U	mg/L
G402	Compliance	E002	08/11/2023	Total Dissolved Solids	1,340	mg/L
G402	Compliance	E002	08/11/2023	Turbidity, field	81.0	NTU
G403	Compliance	E002	08/11/2023	Antimony, total	0.0006 U	mg/L
G403	Compliance	E002	08/11/2023	Arsenic, total	0.0005 J	mg/L
G403	Compliance	E002	08/11/2023	Barium, total	0.118	mg/L
G403	Compliance	E002	08/11/2023	Beryllium, total	0.0002 U	mg/L
G403	Compliance	E002	08/11/2023	Boron, total	0.0287 J+	mg/L
G403	Compliance	E002	08/11/2023	Cadmium, total	0.0002 U	mg/L
G403	Compliance	E002	08/11/2023	Calcium, total	77.7	mg/L
G403	Compliance	E002	08/11/2023	Chloride, total	5.00	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G403	Compliance	E002	08/11/2023	Chromium, total	0.0008 J	mg/L
G403	Compliance	E002	08/11/2023	Cobalt, total	0.00250	mg/L
G403	Compliance	E002	08/11/2023	Dissolved Oxygen	3.06	mg/L
G403	Compliance	E002	08/11/2023	Fluoride, total	0.310 J+	mg/L
G403	Compliance	E002	08/11/2023	Lead, total	0.0006 U	mg/L
G403	Compliance	E002	08/11/2023	Lithium, total	0.00400	mg/L
G403	Compliance	E002	08/11/2023	Mercury, total	0.00006 U	mg/L
G403	Compliance	E002	08/11/2023	Molybdenum, total	0.0006 J	mg/L
G403	Compliance	E002	08/11/2023	Oxidation Reduction Potential	-8.00	mV
G403	Compliance	E002	08/11/2023	pH (field)	7.1	SU
G403	Compliance	E002	08/11/2023	Radium 226 + Radium 228, total	0.984 J+	pCi/L
G403	Compliance	E002	08/11/2023	Selenium, total	0.0006 U	mg/L
G403	Compliance	E002	08/11/2023	Specific Conductance @ 25C (field)	1,170	micromhos/cm
G403	Compliance	E002	08/11/2023	Sulfate, total	60.0 J	mg/L
G403	Compliance	E002	08/11/2023	Temperature	18.7	degrees C
G403	Compliance	E002	08/11/2023	Thallium, total	0.001 U	mg/L
G403	Compliance	E002	08/11/2023	Total Dissolved Solids	412	mg/L
G403	Compliance	E002	08/11/2023	Turbidity, field	8.30	NTU
G404	Compliance	E002	08/14/2023	Antimony, total	0.00110	mg/L
G404	Compliance	E002	08/14/2023	Arsenic, total	0.00110	mg/L
G404	Compliance	E002	08/14/2023	Barium, total	0.0420	mg/L
G404	Compliance	E002	08/14/2023	Beryllium, total	0.0002 U	mg/L
G404	Compliance	E002	08/14/2023	Boron, total	14.4	mg/L
G404	Compliance	E002	08/14/2023	Cadmium, total	0.0002 J	mg/L
G404	Compliance	E002	08/14/2023	Calcium, total	216	mg/L
G404	Compliance	E002	08/14/2023	Chloride, total	73.0	mg/L
G404	Compliance	E002	08/14/2023	Chromium, total	0.00210	mg/L
G404	Compliance	E002	08/14/2023	Cobalt, total	0.00330	mg/L
G404	Compliance	E002	08/14/2023	Dissolved Oxygen	0.480	mg/L
G404	Compliance	E002	08/14/2023	Fluoride, total	0.180 J+	mg/L
G404	Compliance	E002	08/14/2023	Lead, total	0.0006 J	mg/L
G404	Compliance	E002	08/14/2023	Lithium, total	0.00950	mg/L
G404	Compliance	E002	08/14/2023	Mercury, total	0.00016 J	mg/L
G404	Compliance	E002	08/14/2023	Molybdenum, total	0.0011 J	mg/L
G404	Compliance	E002	08/14/2023	Oxidation Reduction Potential	66.0	mV
G404	Compliance	E002	08/14/2023	pH (field)	6.8	SU
G404	Compliance	E002	08/14/2023	Radium 226 + Radium 228, total	1.11	pCi/L
G404	Compliance	E002	08/14/2023	Selenium, total	0.0006 U	mg/L
G404	Compliance	E002	08/14/2023	Specific Conductance @ 25C (field)	2,820	micromhos/cm
G404	Compliance	E002	08/14/2023	Sulfate, total	678	mg/L
G404	Compliance	E002	08/14/2023	Temperature	19.4	degrees C
G404	Compliance	E002	08/14/2023	Thallium, total	0.001 U	mg/L
G404	Compliance	E002	08/14/2023	Total Dissolved Solids	1,600	mg/L
G404	Compliance	E002	08/14/2023	Turbidity, field	5.20	NTU
G405	Compliance	E002	08/11/2023	Antimony, total	0.00120	mg/L
G405	Compliance	E002	08/11/2023	Arsenic, total	0.00100	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G405	Compliance	E002	08/11/2023	Barium, total	0.0158	mg/L
G405	Compliance	E002	08/11/2023	Beryllium, total	0.0002 U	mg/L
G405	Compliance	E002	08/11/2023	Boron, total	10.8	mg/L
G405	Compliance	E002	08/11/2023	Cadmium, total	0.0002 U	mg/L
G405	Compliance	E002	08/11/2023	Calcium, total	253	mg/L
G405	Compliance	E002	08/11/2023	Chloride, total	14.0	mg/L
G405	Compliance	E002	08/11/2023	Chromium, total	0.0007 U	mg/L
G405	Compliance	E002	08/11/2023	Cobalt, total	0.00110	mg/L
G405	Compliance	E002	08/11/2023	Dissolved Oxygen	1.83	mg/L
G405	Compliance	E002	08/11/2023	Fluoride, total	0.420 J+	mg/L
G405	Compliance	E002	08/11/2023	Lead, total	0.0006 U	mg/L
G405	Compliance	E002	08/11/2023	Lithium, total	0.00340	mg/L
G405	Compliance	E002	08/11/2023	Mercury, total	0.00006 U	mg/L
G405	Compliance	E002	08/11/2023	Molybdenum, total	0.0008 J	mg/L
G405	Compliance	E002	08/11/2023	Oxidation Reduction Potential	-21.0	mV
G405	Compliance	E002	08/11/2023	pH (field)	7.1	SU
G405	Compliance	E002	08/11/2023	Radium 226 + Radium 228, total	0.598	pCi/L
G405	Compliance	E002	08/11/2023	Selenium, total	0.0006 U	mg/L
G405	Compliance	E002	08/11/2023	Specific Conductance @ 25C (field)	3,390	micromhos/cm
G405	Compliance	E002	08/11/2023	Sulfate, total	916	mg/L
G405	Compliance	E002	08/11/2023	Temperature	18.2	degrees C
G405	Compliance	E002	08/11/2023	Thallium, total	0.001 U	mg/L
G405	Compliance	E002	08/11/2023	Total Dissolved Solids	1,790	mg/L
G405	Compliance	E002	08/11/2023	Turbidity, field	4.70	NTU
G406	Compliance	E002	08/11/2023	Antimony, total	0.0006 U	mg/L
G406	Compliance	E002	08/11/2023	Arsenic, total	0.0004 U	mg/L
G406	Compliance	E002	08/11/2023	Barium, total	0.0139	mg/L
G406	Compliance	E002	08/11/2023	Beryllium, total	0.0002 U	mg/L
G406	Compliance	E002	08/11/2023	Boron, total	1.54	mg/L
G406	Compliance	E002	08/11/2023	Cadmium, total	0.0002 U	mg/L
G406	Compliance	E002	08/11/2023	Calcium, total	193	mg/L
G406	Compliance	E002	08/11/2023	Chloride, total	4.00 J	mg/L
G406	Compliance	E002	08/11/2023	Chromium, total	0.0007 U	mg/L
G406	Compliance	E002	08/11/2023	Cobalt, total	0.0008 J	mg/L
G406	Compliance	E002	08/11/2023	Dissolved Oxygen	2.27	mg/L
G406	Compliance	E002	08/11/2023	Fluoride, total	0.330 J+	mg/L
G406	Compliance	E002	08/11/2023	Lead, total	0.0006 U	mg/L
G406	Compliance	E002	08/11/2023	Lithium, total	0.0121	mg/L
G406	Compliance	E002	08/11/2023	Mercury, total	0.00006 U	mg/L
G406	Compliance	E002	08/11/2023	Molybdenum, total	0.0006 U	mg/L
G406	Compliance	E002	08/11/2023	Oxidation Reduction Potential	81.0	mV
G406	Compliance	E002	08/11/2023	pH (field)	6.7	SU
G406	Compliance	E002	08/11/2023	Radium 226 + Radium 228, total	0.588	pCi/L
G406	Compliance	E002	08/11/2023	Selenium, total	0.0006 U	mg/L
G406	Compliance	E002	08/11/2023	Specific Conductance @ 25C (field)	2,270	micromhos/cm
G406	Compliance	E002	08/11/2023	Sulfate, total	482	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G406	Compliance	E002	08/11/2023	Temperature	16.9	degrees C
G406	Compliance	E002	08/11/2023	Thallium, total	0.001 U	mg/L
G406	Compliance	E002	08/11/2023	Total Dissolved Solids	1,070	mg/L
G406	Compliance	E002	08/11/2023	Turbidity, field	4.10	NTU
G407	Compliance	E002	08/10/2023	Antimony, total	0.0008 U	mg/L
G407	Compliance	E002	08/10/2023	Arsenic, total	0.0004 U	mg/L
G407	Compliance	E002	08/10/2023	Barium, total	0.0132	mg/L
G407	Compliance	E002	08/10/2023	Beryllium, total	0.0002 U	mg/L
G407	Compliance	E002	08/10/2023	Boron, total	0.0614 J+	mg/L
G407	Compliance	E002	08/10/2023	Cadmium, total	0.0002 U	mg/L
G407	Compliance	E002	08/10/2023	Calcium, total	230	mg/L
G407	Compliance	E002	08/10/2023	Chloride, total	11.0	mg/L
G407	Compliance	E002	08/10/2023	Chromium, total	0.0007 U	mg/L
G407	Compliance	E002	08/10/2023	Cobalt, total	0.0008 J	mg/L
G407	Compliance	E002	08/10/2023	Dissolved Oxygen	0.800	mg/L
G407	Compliance	E002	08/10/2023	Fluoride, total	0.320 J+	mg/L
G407	Compliance	E002	08/10/2023	Lead, total	0.0006 U	mg/L
G407	Compliance	E002	08/10/2023	Lithium, total	0.0402	mg/L
G407	Compliance	E002	08/10/2023	Mercury, total	0.00006 U	mg/L
G407	Compliance	E002	08/10/2023	Molybdenum, total	0.0014 J	mg/L
G407	Compliance	E002	08/10/2023	Oxidation Reduction Potential	12.0	mV
G407	Compliance	E002	08/10/2023	pH (field)	6.8	SU
G407	Compliance	E002	08/10/2023	Radium 226 + Radium 228, total	0.684	pCi/L
G407	Compliance	E002	08/10/2023	Selenium, total	0.0006 U	mg/L
G407	Compliance	E002	08/10/2023	Specific Conductance @ 25C (field)	3,980	micromhos/cm
G407	Compliance	E002	08/10/2023	Sulfate, total	956	mg/L
G407	Compliance	E002	08/10/2023	Temperature	19.2	degrees C
G407	Compliance	E002	08/10/2023	Thallium, total	0.001 U	mg/L
G407	Compliance	E002	08/10/2023	Total Dissolved Solids	1,870	mg/L
G407	Compliance	E002	08/10/2023	Turbidity, field	9.80	NTU

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 2
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G401	UA	E002	Antimony, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G401	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/11/23	26	54	CB around T-S line	-0.0164	0.010	Standard	No Exceedance
G401	UA	E002	Barium, total	mg/L	11/21/15 - 08/11/23	26	0	CB around T-S line	-0.155	2.0	Standard	No Exceedance
G401	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/11/23	25	80	CI around median	0.001	0.004	Standard	No Exceedance
G401	UA	E002	Boron, total	mg/L	11/21/15 - 08/11/23	27	0	CI around median	3.5	2	Standard	Exceedance
G401	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/11/23	26	65	CB around T-S line	-0.0016	0.005	Standard	No Exceedance
G401	UA	E002	Chloride, total	mg/L	11/21/15 - 08/11/23	27	7	CI around geomean	2.96	200	Standard	No Exceedance
G401	UA	E002	Chromium, total	mg/L	11/21/15 - 08/11/23	26	65	CB around T-S line	-0.0295	0.1	Standard	No Exceedance
G401	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	0.0656	0.006	Standard	Exceedance
G401	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/11/23	27	93	CI around median	0.25	4.0	Standard	No Exceedance
G401	UA	E002	Lead, total	mg/L	11/21/15 - 08/11/23	25	64	CB around T-S line	-0.0302	0.0120	Background	No Exceedance
G401	UA	E002	Lithium, total	mg/L	11/21/15 - 08/11/23	28	4	CB around T-S line	-0.00812	0.04	Standard	No Exceedance
G401	UA	E002	Mercury, total	mg/L	11/21/15 - 08/11/23	25	80	CI around median	0.0002	0.002	Standard	No Exceedance
G401	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/11/23	26	69	CI around median	0.001	0.1	Standard	No Exceedance
G401	UA	E002	pH (field)	SU	11/21/15 - 08/11/23	29	0	CI around mean	5.9/6.1	6.5/9.0	Standard/Standard	Exceedance
G401	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/11/23	26	0	CI around median	0.694	5	Standard	No Exceedance
G401	UA	E002	Selenium, total	mg/L	11/21/15 - 08/11/23	26	62	CB around T-S line	-0.00152	0.05	Standard	No Exceedance
G401	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/11/23	27	0	CI around median	2,000	400	Standard	Exceedance
G401	UA	E002	Thallium, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G401	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/11/23	27	0	CI around median	2,800	1,200	Standard	Exceedance
G402	UA	E002	Antimony, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G402	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	-0.00512	0.010	Standard	No Exceedance
G402	UA	E002	Barium, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	-0.00217	2.0	Standard	No Exceedance
G402	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G402	UA	E002	Boron, total	mg/L	11/21/15 - 08/11/23	27	0	CB around linear reg	4.5	2	Standard	Exceedance
G402	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/11/23	26	96	Most recent sample	0.001	0.005	Standard	No Exceedance
G402	UA	E002	Chloride, total	mg/L	11/21/15 - 08/11/23	27	18	CI around mean	1.58	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 2
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G402	UA	E002	Chromium, total	mg/L	11/21/15 - 08/11/23	26	46	CB around linear reg	-0.00394	0.1	Standard	No Exceedance
G402	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/11/23	26	23	CB around linear reg	-0.00277	0.006	Standard	No Exceedance
G402	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/11/23	27	15	CI around median	0.295	4.0	Standard	No Exceedance
G402	UA	E002	Lead, total	mg/L	11/21/15 - 08/11/23	25	28	CB around linear reg	-0.00413	0.0120	Background	No Exceedance
G402	UA	E002	Lithium, total	mg/L	11/21/15 - 08/11/23	26	4	CB around linear reg	0.0108	0.04	Standard	No Exceedance
G402	UA	E002	Mercury, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G402	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	0.00103	0.1	Standard	No Exceedance
G402	UA	E002	pH (field)	SU	11/21/15 - 08/11/23	27	0	CB around linear reg	6.8/7.1	6.5/9.0	Standard/Standard	No Exceedance
G402	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/11/23	26	0	CI around median	0.547	5	Standard	No Exceedance
G402	UA	E002	Selenium, total	mg/L	11/21/15 - 08/11/23	26	77	CB around T-S line	0.000439	0.05	Standard	No Exceedance
G402	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/11/23	27	0	CB around T-S line	427	400	Standard	Exceedance
G402	UA	E002	Thallium, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G402	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/11/23	27	0	CB around linear reg	1,300	1,200	Standard	Exceedance
G403	UA	E002	Antimony, total	mg/L	11/23/15 - 08/11/23	23	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G403	UA	E002	Arsenic, total	mg/L	11/23/15 - 08/11/23	26	58	CB around T-S line	0.000177	0.010	Standard	No Exceedance
G403	UA	E002	Barium, total	mg/L	11/23/15 - 08/11/23	26	0	CB around T-S line	0.0779	2.0	Standard	No Exceedance
G403	UA	E002	Beryllium, total	mg/L	11/23/15 - 08/11/23	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G403	UA	E002	Boron, total	mg/L	11/23/15 - 08/11/23	27	18	CI around geomean	0.0157	2	Standard	No Exceedance
G403	UA	E002	Cadmium, total	mg/L	11/23/15 - 08/11/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G403	UA	E002	Chloride, total	mg/L	11/23/15 - 08/11/23	27	0	CB around linear reg	4.22	200	Standard	No Exceedance
G403	UA	E002	Chromium, total	mg/L	11/23/15 - 08/11/23	26	92	CB around T-S line	0.00358	0.1	Standard	No Exceedance
G403	UA	E002	Cobalt, total	mg/L	11/23/15 - 08/11/23	26	58	CI around median	0.002	0.006	Standard	No Exceedance
G403	UA	E002	Fluoride, total	mg/L	11/23/15 - 08/11/23	27	11	CB around T-S line	0.188	4.0	Standard	No Exceedance
G403	UA	E002	Lead, total	mg/L	11/23/15 - 08/11/23	25	88	CI around median	0.001	0.0120	Background	No Exceedance
G403	UA	E002	Lithium, total	mg/L	11/23/15 - 08/11/23	26	96	CB around T-S line	0.01	0.04	Standard	No Exceedance
G403	UA	E002	Mercury, total	mg/L	11/23/15 - 08/11/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G403	UA	E002	Molybdenum, total	mg/L	11/23/15 - 08/11/23	26	73	CI around median	0.001	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
 845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G403	UA	E002	pH (field)	SU	11/23/15 - 08/11/23	27	0	CI around mean	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance
G403	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/23/15 - 08/11/23	26	0	CI around mean	0.598	5	Standard	No Exceedance
G403	UA	E002	Selenium, total	mg/L	11/23/15 - 08/11/23	26	96	CI around median	0.001	0.05	Standard	No Exceedance
G403	UA	E002	Sulfate, total	mg/L	11/23/15 - 08/11/23	27	0	CB around T-S line	51.1	400	Standard	No Exceedance
G403	UA	E002	Thallium, total	mg/L	11/23/15 - 08/11/23	23	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G403	UA	E002	Total Dissolved Solids	mg/L	11/23/15 - 08/11/23	27	0	CB around linear reg	380	1,200	Standard	No Exceedance
G404	UA	E002	Antimony, total	mg/L	11/21/15 - 08/14/23	23	96	CI around median	0.003	0.006	Standard	No Exceedance
G404	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/14/23	26	85	CI around median	0.001	0.010	Standard	No Exceedance
G404	UA	E002	Barium, total	mg/L	11/21/15 - 08/14/23	26	0	CB around linear reg	0.02	2.0	Standard	No Exceedance
G404	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/14/23	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G404	UA	E002	Boron, total	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	6.35	2	Standard	Exceedance
G404	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/14/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G404	UA	E002	Chloride, total	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	121	200	Standard	No Exceedance
G404	UA	E002	Chromium, total	mg/L	11/21/15 - 08/14/23	26	96	CI around median	0.004	0.1	Standard	No Exceedance
G404	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/14/23	26	93	CI around median	0.002	0.006	Standard	No Exceedance
G404	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/14/23	27	79	CI around median	0.25	4.0	Standard	No Exceedance
G404	UA	E002	Lead, total	mg/L	11/21/15 - 08/14/23	25	96	CI around median	0.001	0.0120	Background	No Exceedance
G404	UA	E002	Lithium, total	mg/L	11/21/15 - 08/14/23	26	85	CB around T-S line	0.01	0.04	Standard	No Exceedance
G404	UA	E002	Mercury, total	mg/L	11/21/15 - 08/14/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G404	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/14/23	26	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G404	UA	E002	pH (field)	SU	11/21/15 - 08/14/23	27	0	CB around linear reg	6.5/6.8	6.5/9.0	Standard/Standard	No Exceedance
G404	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/14/23	26	0	CI around mean	0.625	5	Standard	No Exceedance
G404	UA	E002	Selenium, total	mg/L	11/21/15 - 08/14/23	26	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G404	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	452	400	Standard	Exceedance
G404	UA	E002	Thallium, total	mg/L	11/21/15 - 08/14/23	23	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G404	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	1,300	1,200	Standard	Exceedance
G405	UA	E002	Antimony, total	mg/L	11/21/15 - 08/11/23	23	96	CI around median	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
 845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G405	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/11/23	26	33	CB around T-S line	-0.00274	0.010	Standard	No Exceedance
G405	UA	E002	Barium, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	0.0071	2.0	Standard	No Exceedance
G405	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G405	UA	E002	Boron, total	mg/L	11/21/15 - 08/11/23	27	0	CI around mean	9.25	2	Standard	Exceedance
G405	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/11/23	26	96	CI around median	0.001	0.005	Standard	No Exceedance
G405	UA	E002	Chloride, total	mg/L	11/21/15 - 08/11/23	27	0	CB around T-S line	-3.13	200	Standard	No Exceedance
G405	UA	E002	Chromium, total	mg/L	11/21/15 - 08/11/23	26	89	CI around median	0.004	0.1	Standard	No Exceedance
G405	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/11/23	26	70	CB around T-S line	0.00114	0.006	Standard	No Exceedance
G405	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/11/23	27	11	CB around linear reg	0.22	4.0	Standard	No Exceedance
G405	UA	E002	Lead, total	mg/L	11/21/15 - 08/11/23	25	50	CB around T-S line	-0.000982	0.0120	Background	No Exceedance
G405	UA	E002	Lithium, total	mg/L	11/21/15 - 08/11/23	26	92	CB around T-S line	0.01	0.04	Standard	No Exceedance
G405	UA	E002	Mercury, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G405	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/11/23	26	41	CI around median	0.001	0.1	Standard	No Exceedance
G405	UA	E002	pH (field)	SU	11/21/15 - 08/11/23	27	0	CI around mean	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance
G405	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/11/23	26	0	CI around median	0.598	5	Standard	No Exceedance
G405	UA	E002	Selenium, total	mg/L	11/21/15 - 08/11/23	26	89	CI around median	0.001	0.05	Standard	No Exceedance
G405	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/11/23	27	0	CB around linear reg	436	400	Standard	Exceedance
G405	UA	E002	Thallium, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G405	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/11/23	27	0	CI around mean	1,540	1,200	Standard	Exceedance
G406	UA	E002	Antimony, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G406	UA	E002	Arsenic, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.001	0.010	Standard	No Exceedance
G406	UA	E002	Barium, total	mg/L	10/14/20 - 08/11/23	12	0	CI around median	0.012	2.0	Standard	No Exceedance
G406	UA	E002	Beryllium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G406	UA	E002	Boron, total	mg/L	10/14/20 - 08/11/23	12	0	CI around median	1.4	2	Standard	No Exceedance
G406	UA	E002	Cadmium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G406	UA	E002	Chloride, total	mg/L	10/14/20 - 08/11/23	12	17	CI around mean	3.05	200	Standard	No Exceedance
G406	UA	E002	Chromium, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.004	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
 845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G406	UA	E002	Cobalt, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G406	UA	E002	Fluoride, total	mg/L	10/14/20 - 08/11/23	12	17	CI around geomean	0.268	4.0	Standard	No Exceedance
G406	UA	E002	Lead, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.001	0.0120	Background	No Exceedance
G406	UA	E002	Lithium, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.02	0.04	Standard	No Exceedance
G406	UA	E002	Mercury, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G406	UA	E002	Molybdenum, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.001	0.1	Standard	No Exceedance
G406	UA	E002	pH (field)	SU	10/14/20 - 08/11/23	12	0	CI around mean	6.5/6.7	6.5/9.0	Standard/Standard	No Exceedance
G406	UA	E002	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 08/11/23	12	0	CI around mean	0.226	5	Standard	No Exceedance
G406	UA	E002	Selenium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G406	UA	E002	Sulfate, total	mg/L	10/14/20 - 08/11/23	12	0	CI around median	450	400	Standard	Exceedance
G406	UA	E002	Thallium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G406	UA	E002	Total Dissolved Solids	mg/L	10/14/20 - 08/11/23	12	0	CI around mean	1,000	1,200	Standard	No Exceedance
G407	UA	E002	Antimony, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G407	UA	E002	Arsenic, total	mg/L	10/14/20 - 08/10/23	12	83	CI around median	0.001	0.010	Standard	No Exceedance
G407	UA	E002	Barium, total	mg/L	10/14/20 - 08/10/23	12	0	CI around median	0.012	2.0	Standard	No Exceedance
G407	UA	E002	Beryllium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G407	UA	E002	Boron, total	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	0.07	2	Standard	No Exceedance
G407	UA	E002	Cadmium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G407	UA	E002	Chloride, total	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	11.3	200	Standard	No Exceedance
G407	UA	E002	Chromium, total	mg/L	10/14/20 - 08/10/23	12	83	CI around median	0.004	0.1	Standard	No Exceedance
G407	UA	E002	Cobalt, total	mg/L	10/14/20 - 08/10/23	12	92	CI around median	0.002	0.006	Standard	No Exceedance
G407	UA	E002	Fluoride, total	mg/L	10/14/20 - 08/10/23	12	25	CI around geomean	0.259	4.0	Standard	No Exceedance
G407	UA	E002	Lead, total	mg/L	10/14/20 - 08/10/23	12	92	CI around median	0.001	0.0120	Background	No Exceedance
G407	UA	E002	Lithium, total	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	0.0389	0.04	Standard	No Exceedance
G407	UA	E002	Mercury, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G407	UA	E002	Molybdenum, total	mg/L	10/14/20 - 08/10/23	12	17	CI around median	0.0012	0.1	Standard	No Exceedance
G407	UA	E002	pH (field)	SU	10/14/20 - 08/10/23	12	0	CI around mean	6.6/6.8	6.5/9.0	Standard/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023

845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G407	UA	E002	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 08/10/23	12	0	CI around mean	0.162	5	Standard	No Exceedance
G407	UA	E002	Selenium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G407	UA	E002	Sulfate, total	mg/L	10/14/20 - 08/10/23	12	0	CI around median	440	400	Standard	Exceedance
G407	UA	E002	Thallium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G407	UA	E002	Total Dissolved Solids	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	1,910	1,200	Standard	Exceedance

Notes:

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

For pH, the values presented are the lower / upper limits

GWPS = Groundwater Protection Standard

GWPS Source:

Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

Background = background concentration (see cover page for additional information)

FIGURES

PROJECT: 169000XXXX | DATED: 10/6/2021 | DESIGNER: STOLZSD
 Y:\Mapping\Projects\22285\MXD\1845_Operating_Permit\Coffeen\AP2_GMP\Figure 2-1_Proposed Monitoring Well Network.mxd



Service Layer Credits: Source: Esri, Microsoft, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- COMPLIANCE WELL
- BACKGROUND WELL
- MONITORING WELL
- STAFF GAGE
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY



MONITORING WELL LOCATION MAP

FIGURE 1

2 -POND- TC
 COFFEEN POWER PLANT
 COFFEEN, ILLINOIS

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 3, 2023**

**ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 2023**

845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 2
COFFEEN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G1001	Compliance	08/08/2023	6.32	591.29
G1003	Water Level	08/08/2023	Dry	
G270	Background	08/14/2023	[8.52]	[617.34]
G280	Background	08/08/2023	5.80	619.55
G281	Background	08/08/2023	6.39	619.97
G401	Compliance	08/08/2023	21.75	603.82
G402	Compliance	08/08/2023	11.65	601.72
G403	Compliance	08/08/2023	7.45	619.02
G404	Compliance	08/14/2023	[5.62]	[610.05]
G405	Compliance	08/08/2023	6.85	616.78
G406	Compliance	08/08/2023	11.49	613.87
G407	Compliance	08/08/2023	8.79	612.53
SG-03	Water Level	08/08/2023	9.65	585.29

Notes:

Only wells with groundwater elevations measured are included.

BMP = below measuring point

Bracketing [] indicates that the measurement was obtained outside of the 24-hour period from initiation of depth to groundwater measurements.

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 3, 2023**

November 21, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: COF-23Q3

WorkOrder: 23071810

Dear Eric Bauer:

TEKLAB, INC received 16 samples for COF_845_102 on 9/19/2023 1:12:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

This reporting package includes the following:

Cover Letter	1
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Case Narrative	5
Accreditations	7
Laboratory Results	8
Sample Summary	30
Dates Report	31
Quality Control Results	46
Receiving Check List	186
Chain of Custody	Appended

Definitions

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Cooler Receipt Temp: 3.4 °C

An employee of Teklab, Inc. collected the sample(s).

G200, G207, G275, G277, G278, G279, G286, G1003, L203, and R201 could not be collected; the wells were dry. G1001 and G307 would not pump. G287, TR32, SG-02, and SG-04 could not be located/accessed.

G308 and G301DUP will be reported with collection times per field file(s). EAH 9/6/23

Due to an error in the field, G308 and X201 were recollected on 9/19/23 for Ferrous Iron and Total Iron per Ramboll's request. X201's depth measurement was also completed on 9/19/23. Resamples will be reported. EAH 9/19/23

Per Eric Bauer's request, only COF_845_102 data is included in this report. EAH 11/21/23

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

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Springfield

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Fax
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Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-039
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G270
Collection Date: 08/14/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.52	ft	1	08/14/2023 13:45	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.3	NTU	1	08/14/2023 13:45	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		78	mV	1	08/14/2023 13:45	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		936	µS/cm	1	08/14/2023 13:45	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.2	°C	1	08/14/2023 13:45	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.64	mg/L	1	08/14/2023 13:45	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.84		1	08/14/2023 13:45	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		347	mg/L	1	08/16/2023 13:10	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 13:10	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		426	mg/L	1	08/16/2023 10:29	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		48	mg/L	1	08/29/2023 23:29	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.35	mg/L	1	08/16/2023 11:19	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		13	mg/L	1	08/29/2023 23:30	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		57.9	mg/L	1	08/16/2023 16:42	210901
Magnesium	NELAP	0.0055	0.0500		23.4	mg/L	1	08/16/2023 16:42	210901
Potassium	NELAP	0.0400	0.100		0.757	mg/L	1	08/16/2023 16:42	210901
Sodium	NELAP	0.0180	0.0500		80.3	mg/L	1	08/16/2023 16:42	210901
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	09/01/2023 6:03	210901
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/01/2023 6:03	210901
Barium	NELAP	0.0007	0.0010		0.0467	mg/L	5	09/07/2023 18:46	210901
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 6:03	210901
Boron	NELAP	0.0092	0.0200		< 0.0200	mg/L	5	09/01/2023 6:03	210901
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 6:03	210901
Chromium	NELAP	0.0007	0.0015	J	0.0009	mg/L	5	09/01/2023 6:03	210901
Cobalt	NELAP	0.0001	0.0010	J	0.0003	mg/L	5	09/01/2023 6:03	210901
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 18:46	210901
Lithium	*	0.0015	0.0030	J	0.0029	mg/L	5	09/01/2023 6:03	210901
Molybdenum	*	0.0006	0.0015	J	0.0008	mg/L	5	09/01/2023 6:03	210901
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 6:03	210901
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 6:03	210901

Sample result for Mn exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-039
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G270
Collection Date: 08/14/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	08/16/2023 16:10	210923



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-050
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G280
Collection Date: 08/14/2023 14:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.80	ft	1	08/14/2023 14:58	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.5	NTU	1	08/14/2023 14:58	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		31	mV	1	08/14/2023 14:58	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1480	µS/cm	1	08/14/2023 14:58	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.5	°C	1	08/14/2023 14:58	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.01	mg/L	1	08/14/2023 14:58	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.45		1	08/14/2023 14:58	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		262	mg/L	1	08/16/2023 13:51	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 13:51	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		594	mg/L	1	08/16/2023 11:08	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		91	mg/L	2	08/30/2023 16:44	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.31	mg/L	1	08/16/2023 11:39	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		70	mg/L	2	08/30/2023 16:45	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		79.5	mg/L	1	08/16/2023 16:51	210901
Magnesium	NELAP	0.0055	0.0500		36.6	mg/L	1	08/16/2023 16:51	210901
Potassium	NELAP	0.0400	0.100		0.539	mg/L	1	08/16/2023 16:51	210901
Sodium	NELAP	0.0180	0.0500		58.5	mg/L	1	08/16/2023 16:51	210901
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010	J	0.0009	mg/L	5	09/01/2023 7:20	210901
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/01/2023 7:20	210901
Barium	NELAP	0.0007	0.0010		0.0531	mg/L	5	09/08/2023 14:43	211078
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:20	210901
Boron	NELAP	0.0092	0.0200		< 0.0200	mg/L	5	09/01/2023 7:20	210901
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:20	210901
Chromium	NELAP	0.0007	0.0015	J	0.0013	mg/L	5	09/01/2023 7:20	210901
Cobalt	NELAP	0.0001	0.0010	J	0.0003	mg/L	5	09/01/2023 7:20	210901
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 20:34	210901
Lithium	*	0.0015	0.0030		0.0044	mg/L	5	09/01/2023 7:20	210901
Molybdenum	*	0.0006	0.0015	J	0.0006	mg/L	5	09/01/2023 7:20	210901
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 7:20	210901
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 7:20	210901

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-050
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G280
Collection Date: 08/14/2023 14:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/23/2023 22:03	211199



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-051
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G281

Collection Date: 08/14/2023 16:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.39	ft	1	08/14/2023 16:06	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.4	NTU	1	08/14/2023 16:06	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		102	mV	1	08/14/2023 16:06	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1740	µS/cm	1	08/14/2023 16:06	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.6	°C	1	08/14/2023 16:06	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.74	mg/L	1	08/14/2023 16:06	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.76		1	08/14/2023 16:06	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		357	mg/L	1	08/16/2023 13:58	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 13:58	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		930	mg/L	1	08/16/2023 11:41	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		268	mg/L	10	08/30/2023 16:58	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.30	mg/L	1	08/16/2023 12:23	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		88	mg/L	2	08/30/2023 16:53	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		137	mg/L	1	08/16/2023 16:52	210901
Magnesium	NELAP	0.0055	0.0500		61.0	mg/L	1	08/16/2023 16:52	210901
Potassium	NELAP	0.0400	0.100		0.609	mg/L	1	08/16/2023 16:52	210901
Sodium	NELAP	0.0180	0.0500		90.7	mg/L	1	08/16/2023 16:52	210901
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Barium	NELAP	0.0007	0.0010		0.0707	mg/L	5	09/07/2023 20:41	210901
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Boron	NELAP	0.0092	0.0200		< 0.0200	mg/L	5	09/01/2023 7:26	210901
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 7:26	210901
Cobalt	NELAP	0.0001	0.0010	J	0.0004	mg/L	5	09/01/2023 7:26	210901
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 20:41	210901
Lithium	*	0.0015	0.0030		0.0042	mg/L	5	09/01/2023 7:26	210901
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	09/01/2023 7:26	210901
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 7:26	210901

Sample result for Mn exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-051
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G281
Collection Date: 08/14/2023 16:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/24/2023 19:55	211199



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-075
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G401
Collection Date: 08/11/2023 11:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		21.75	ft	1	08/11/2023 11:22	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.8	NTU	1	08/11/2023 11:22	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-30	mV	1	08/11/2023 11:22	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		4910	µS/cm	1	08/11/2023 11:22	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.5	°C	1	08/11/2023 11:22	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.50	mg/L	1	08/11/2023 11:22	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		5.98		1	08/11/2023 11:22	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		96	mg/L	1	08/16/2023 14:05	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 14:05	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		3040	mg/L	2.5	08/16/2023 9:20	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		1900	mg/L	50	08/30/2023 20:26	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.19	mg/L	1	08/16/2023 11:21	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	3	mg/L	1	09/01/2023 15:22	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		509	mg/L	1	08/16/2023 17:44	210813
Magnesium	NELAP	0.0055	0.0500		141	mg/L	1	08/16/2023 17:44	210813
Potassium	NELAP	0.0400	0.100		2.86	mg/L	1	08/16/2023 17:44	210813
Sodium	NELAP	0.0180	0.0500		71.4	mg/L	1	08/16/2023 17:44	210813
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:35	210813
Arsenic	NELAP	0.0004	0.0010	J	0.0009	mg/L	5	09/01/2023 1:35	210813
Barium	NELAP	0.0007	0.0010		0.0118	mg/L	5	09/07/2023 23:27	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:35	210813
Boron	NELAP	0.0092	0.0200		4.24	mg/L	5	09/01/2023 1:35	210813
Cadmium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	09/01/2023 1:35	210813
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 1:35	210813
Cobalt	NELAP	0.0001	0.0010		0.156	mg/L	5	09/01/2023 1:35	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 23:27	210813
Lithium	*	0.0015	0.0030		0.0257	mg/L	5	09/01/2023 1:35	210813
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	09/01/2023 1:35	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:35	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:35	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-075

Client Sample ID: G401

Matrix: GROUNDWATER

Collection Date: 08/11/2023 11:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:34	210857



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-076
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G402

Collection Date: 08/11/2023 12:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.65	ft	1	08/11/2023 12:09	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		81	NTU	1	08/11/2023 12:09	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		23	mV	1	08/11/2023 12:09	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2820	µS/cm	1	08/11/2023 12:09	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.1	°C	1	08/11/2023 12:09	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		8.19	mg/L	1	08/11/2023 12:09	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.29		1	08/11/2023 12:09	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		508	mg/L	1	08/16/2023 14:10	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 14:10	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		1340	mg/L	2.5	08/16/2023 9:20	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		601	mg/L	20	08/30/2023 20:42	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.34	mg/L	1	08/16/2023 11:31	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	3	mg/L	1	08/30/2023 20:37	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		212	mg/L	1	08/16/2023 17:49	210813
Magnesium	NELAP	0.0055	0.0500		128	mg/L	1	08/16/2023 17:49	210813
Potassium	NELAP	0.0400	0.100		1.27	mg/L	1	08/16/2023 17:49	210813
Sodium	NELAP	0.0180	0.0500		45.9	mg/L	1	08/16/2023 17:49	210813
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:42	210813
Arsenic	NELAP	0.0004	0.0010		0.0041	mg/L	5	09/01/2023 1:42	210813
Barium	NELAP	0.0007	0.0010		0.0290	mg/L	5	09/07/2023 23:40	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:42	210813
Boron	NELAP	0.0092	0.0200		5.71	mg/L	5	09/01/2023 1:42	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:42	210813
Chromium	NELAP	0.0007	0.0015		0.0034	mg/L	5	09/01/2023 1:42	210813
Cobalt	NELAP	0.0001	0.0010		0.0024	mg/L	5	09/01/2023 1:42	210813
Lead	NELAP	0.0006	0.0010		0.0025	mg/L	5	09/07/2023 23:40	210813
Lithium	*	0.0015	0.0030		0.0240	mg/L	5	09/01/2023 1:42	210813
Molybdenum	*	0.0006	0.0015		0.0024	mg/L	5	09/01/2023 1:42	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:42	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:42	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-076
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G402
Collection Date: 08/11/2023 12:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:36	210857



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-077
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G403

Collection Date: 08/11/2023 10:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.45	ft	1	08/11/2023 10:51	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.3	NTU	1	08/11/2023 10:51	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-8	mV	1	08/11/2023 10:51	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1170	µS/cm	1	08/11/2023 10:51	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.7	°C	1	08/11/2023 10:51	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.06	mg/L	1	08/11/2023 10:51	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.09		1	08/11/2023 10:51	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		315	mg/L	1	08/16/2023 14:17	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 14:17	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		412	mg/L	1	08/16/2023 9:20	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50	H	60	mg/L	5	09/08/2023 16:45	R336163
<i>Sample required re-analysis out of hold time.</i>									
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.31	mg/L	1	08/16/2023 11:33	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		5	mg/L	1	08/30/2023 20:45	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		77.7	mg/L	1	08/16/2023 17:49	210813
Magnesium	NELAP	0.0055	0.0500		36.2	mg/L	1	08/16/2023 17:49	210813
Potassium	NELAP	0.0400	0.100		0.562	mg/L	1	08/16/2023 17:49	210813
Sodium	NELAP	0.0180	0.0500		25.4	mg/L	1	08/16/2023 17:49	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:48	210813
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/01/2023 1:48	210813
Barium	NELAP	0.0007	0.0010		0.118	mg/L	5	09/07/2023 23:46	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:48	210813
Boron	NELAP	0.0092	0.0200		0.0287	mg/L	5	09/01/2023 1:48	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:48	210813
Chromium	NELAP	0.0007	0.0015	J	0.0008	mg/L	5	09/01/2023 1:48	210813
Cobalt	NELAP	0.0001	0.0010		0.0025	mg/L	5	09/01/2023 1:48	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 23:46	210813
Lithium	*	0.0015	0.0030		0.0040	mg/L	5	09/01/2023 1:48	210813
Molybdenum	*	0.0006	0.0015	J	0.0006	mg/L	5	09/01/2023 1:48	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:48	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:48	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-077
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G403
Collection Date: 08/11/2023 10:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:43	210857



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-078
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G404

Collection Date: 08/14/2023 15:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.62	ft	1	08/14/2023 15:46	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.2	NTU	1	08/14/2023 15:46	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		66	mV	1	08/14/2023 15:46	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2820	µS/cm	1	08/14/2023 15:46	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		19.4	°C	1	08/14/2023 15:46	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.48	mg/L	1	08/14/2023 15:46	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.77		1	08/14/2023 15:46	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		348	mg/L	1	08/16/2023 14:24	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 14:24	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1600	mg/L	1	08/16/2023 11:43	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		678	mg/L	20	08/30/2023 20:33	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.18	mg/L	1	08/16/2023 12:27	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		73	mg/L	2	09/01/2023 15:43	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		216	mg/L	1	08/16/2023 16:52	210901
Magnesium	NELAP	0.0055	0.0500		95.7	mg/L	1	08/16/2023 16:52	210901
Potassium	NELAP	0.0400	0.100		0.627	mg/L	1	08/16/2023 16:52	210901
Sodium	NELAP	0.0180	0.0500		78.6	mg/L	1	08/16/2023 16:52	210901
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		0.0011	mg/L	5	09/01/2023 7:32	210901
Arsenic	NELAP	0.0004	0.0010		0.0011	mg/L	5	09/01/2023 7:32	210901
Barium	NELAP	0.0007	0.0010		0.0420	mg/L	5	09/07/2023 21:00	210901
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:32	210901
Boron	NELAP	0.0092	0.0200		14.4	mg/L	5	09/01/2023 7:32	210901
Cadmium	NELAP	0.0002	0.0010	J	0.0002	mg/L	5	09/01/2023 7:32	210901
Chromium	NELAP	0.0007	0.0015		0.0021	mg/L	5	09/01/2023 7:32	210901
Cobalt	NELAP	0.0001	0.0010		0.0033	mg/L	5	09/01/2023 7:32	210901
Lead	NELAP	0.0006	0.0010	J	0.0006	mg/L	5	09/07/2023 21:00	210901
Lithium	*	0.0015	0.0030		0.0095	mg/L	5	09/01/2023 7:32	210901
Molybdenum	*	0.0006	0.0015	J	0.0011	mg/L	5	09/01/2023 7:32	210901
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 7:32	210901
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 7:32	210901

Matrix spike did not recover within control limits due to matrix interference.

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-078
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G404
Collection Date: 08/14/2023 15:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	0.00016	mg/L	1	08/23/2023 22:14	211199



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-079
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G405

Collection Date: 08/11/2023 12:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.85	ft	1	08/11/2023 12:41	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.7	NTU	1	08/11/2023 12:41	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-21	mV	1	08/11/2023 12:41	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3390	µS/cm	1	08/11/2023 12:41	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.2	°C	1	08/11/2023 12:41	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.83	mg/L	1	08/11/2023 12:41	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.09		1	08/11/2023 12:41	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		286	mg/L	1	08/16/2023 14:31	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 14:31	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1790	mg/L	1	08/16/2023 9:21	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		916	mg/L	50	09/06/2023 13:28	R336010
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.42	mg/L	1	08/16/2023 11:36	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		14	mg/L	1	08/30/2023 21:09	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		253	mg/L	1	08/16/2023 17:50	210813
Magnesium	NELAP	0.0055	0.0500		110	mg/L	1	08/16/2023 17:50	210813
Potassium	NELAP	0.0400	0.100		0.566	mg/L	1	08/16/2023 17:50	210813
Sodium	NELAP	0.0180	0.0500		109	mg/L	1	08/16/2023 17:50	210813
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		0.0012	mg/L	5	09/01/2023 1:54	210813
Arsenic	NELAP	0.0004	0.0010		0.0010	mg/L	5	09/01/2023 1:54	210813
Barium	NELAP	0.0007	0.0010		0.0158	mg/L	5	09/07/2023 23:59	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:54	210813
Boron	NELAP	0.0092	0.0200		10.8	mg/L	5	09/01/2023 1:54	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:54	210813
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 1:54	210813
Cobalt	NELAP	0.0001	0.0010		0.0011	mg/L	5	09/01/2023 1:54	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 23:59	210813
Lithium	*	0.0015	0.0030		0.0034	mg/L	5	09/01/2023 1:54	210813
Molybdenum	*	0.0006	0.0015	J	0.0008	mg/L	5	09/01/2023 1:54	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:54	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:54	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-079
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G405
Collection Date: 08/11/2023 12:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:45	210857



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-080
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G406
Collection Date: 08/11/2023 10:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.49	ft	1	08/11/2023 10:13	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.1	NTU	1	08/11/2023 10:13	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		81	mV	1	08/11/2023 10:13	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2270	µS/cm	1	08/11/2023 10:13	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.9	°C	1	08/11/2023 10:13	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.27	mg/L	1	08/11/2023 10:13	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.73		1	08/11/2023 10:13	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		347	mg/L	1	08/16/2023 14:39	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 14:39	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1070	mg/L	1	08/16/2023 9:21	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		482	mg/L	10	08/30/2023 21:21	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.33	mg/L	1	08/16/2023 11:38	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	4	mg/L	1	08/30/2023 21:17	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		193	mg/L	1	08/16/2023 17:51	210813
Magnesium	NELAP	0.0055	0.0500		65.7	mg/L	1	08/16/2023 17:51	210813
Potassium	NELAP	0.0400	0.100		0.263	mg/L	1	08/16/2023 17:51	210813
Sodium	NELAP	0.0180	0.0500		37.2	mg/L	1	08/16/2023 17:51	210813
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 2:01	210813
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/01/2023 2:01	210813
Barium	NELAP	0.0007	0.0010		0.0139	mg/L	5	09/08/2023 0:38	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 2:01	210813
Boron	NELAP	0.0092	0.0200		1.54	mg/L	5	09/01/2023 2:01	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 2:01	210813
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 2:01	210813
Cobalt	NELAP	0.0001	0.0010	J	0.0008	mg/L	5	09/01/2023 2:01	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/08/2023 0:38	210813
Lithium	*	0.0015	0.0030		0.0121	mg/L	5	09/01/2023 2:01	210813
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	09/01/2023 2:01	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 2:01	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 2:01	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-080

Client Sample ID: G406

Matrix: GROUNDWATER

Collection Date: 08/11/2023 10:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:47	210857



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-081
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G407
Collection Date: 08/10/2023 14:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.79	ft	1	08/10/2023 14:32	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.8	NTU	1	08/10/2023 14:32	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		12	mV	1	08/10/2023 14:32	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3980	µS/cm	1	08/10/2023 14:32	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		19.2	°C	1	08/10/2023 14:32	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.80	mg/L	1	08/10/2023 14:32	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.83		1	08/10/2023 14:32	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		502	mg/L	1	08/16/2023 11:33	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 11:33	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1870	mg/L	1	08/15/2023 11:10	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		956	mg/L	20	08/30/2023 21:30	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.32	mg/L	1	08/16/2023 10:52	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		11	mg/L	1	08/30/2023 21:25	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		230	mg/L	1	08/16/2023 17:52	210813
Magnesium	NELAP	0.0055	0.0500		151	mg/L	1	08/16/2023 17:52	210813
Potassium	NELAP	0.0400	0.100		2.76	mg/L	1	08/16/2023 17:52	210813
Sodium	NELAP	0.0180	0.0500		85.8	mg/L	1	08/16/2023 17:52	210813
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	09/01/2023 2:58	210813
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/01/2023 2:58	210813
Barium	NELAP	0.0007	0.0010		0.0132	mg/L	5	09/08/2023 0:44	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 2:58	210813
Boron	NELAP	0.0092	0.0200		0.0614	mg/L	5	09/01/2023 2:58	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 2:58	210813
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 2:58	210813
Cobalt	NELAP	0.0001	0.0010	J	0.0008	mg/L	5	09/01/2023 2:58	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/08/2023 0:44	210813
Lithium	*	0.0015	0.0030		0.0402	mg/L	5	09/01/2023 2:58	210813
Molybdenum	*	0.0006	0.0015	J	0.0014	mg/L	5	09/01/2023 2:58	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 2:58	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 2:58	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-081
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G407
Collection Date: 08/10/2023 14:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:50	210857



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Lab ID: 23071810-099

Client Sample ID: SG-03

Matrix: GROUNDWATER

Collection Date: 08/08/2023 12:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.65	ft	1	08/08/2023 12:04	R335486



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-107
Matrix: AQUEOUS

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: Field Blank
Collection Date: 08/15/2023 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		2	mg/L	1	08/17/2023 13:33	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:33	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	08/16/2023 12:39	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10	J	7	mg/L	1	08/30/2023 23:33	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	0.06	mg/L	1	08/16/2023 14:38	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		< 4	mg/L	1	08/30/2023 23:34	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.10	J	0.042	mg/L	1	08/17/2023 10:29	210926
Magnesium	NELAP	0.0055	0.0500		< 0.0500	mg/L	1	08/18/2023 15:59	210926
Potassium	NELAP	0.0400	0.100		< 0.100	mg/L	1	08/17/2023 10:29	210926
Sodium	NELAP	0.018	0.050	J	0.030	mg/L	1	08/17/2023 10:29	210926
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	08/30/2023 12:36	210926
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Barium	NELAP	0.0007	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Boron	NELAP	0.0092	0.0200		0.104	mg/L	5	09/11/2023 12:58	210926
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/13/2023 22:48	210926
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	08/30/2023 12:36	210926
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	08/30/2023 12:36	210926
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	09/13/2023 22:48	210926
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 12:36	210926
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 12:36	210926
<i>Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/24/2023 11:44	211205



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071810-039	G270	Groundwater	7	08/14/2023 13:45
23071810-050	G280	Groundwater	7	08/14/2023 14:58
23071810-051	G281	Groundwater	7	08/14/2023 16:06
23071810-075	G401	Groundwater	7	08/11/2023 11:22
23071810-076	G402	Groundwater	7	08/11/2023 12:09
23071810-077	G403	Groundwater	7	08/11/2023 10:51
23071810-078	G404	Groundwater	7	08/14/2023 15:46
23071810-079	G405	Groundwater	7	08/11/2023 12:41
23071810-080	G406	Groundwater	7	08/11/2023 10:13
23071810-081	G407	Groundwater	7	08/10/2023 14:32
23071810-084	G1001	Groundwater	6	08/15/2023 0:00
23071810-085	G1003	Groundwater	1	08/08/2023 12:34
23071810-098	SG-02	Groundwater	1	08/08/2023 0:00
23071810-099	SG-03	Groundwater	1	08/08/2023 12:04
23071810-100	SG-04	Groundwater	1	08/08/2023 0:00
23071810-107	Field Blank	Aqueous	8	08/15/2023 10:35



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
23071810-039A	G270	08/14/2023 13:45	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 13:45
	Field Elevation Measurements				08/14/2023 13:45
	Standard Methods 2130 B Field				08/14/2023 13:45
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 13:45
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 13:10
	Standard Methods 2320 B 1997, 2011				08/16/2023 13:10
	Standard Methods 2510 B Field				08/14/2023 13:45
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 10:29
	Standard Methods 2550 B Field				08/14/2023 13:45
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:30
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 12:59
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 13:45
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 12:56
	SW-846 9036 (Total)				08/29/2023 23:29
	SW-846 9040B Field				08/14/2023 13:45
	SW-846 9214 (Total)				08/16/2023 11:19
	SW-846 9251 (Total)				08/29/2023 23:30
23071810-039B	G270	08/14/2023 13:45	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:53
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:53
	Standard Methods 2550 B Field				08/14/2023 13:45
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:33
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 13:59
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 12:57
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/23/2023 15:32
	SW-846 9214 (Dissolved)				08/16/2023 10:07
	SW-846 9251 (Dissolved)				08/21/2023 23:52
23071810-039C	G270	08/14/2023 13:45	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 16:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 6:03
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 18:46
	SW-846 7470A (Total)			08/15/2023 15:17	08/16/2023 16:10



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
23071810-039D	G270	08/14/2023 13:45	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:12
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/01/2023 17:11
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 3:14
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 22:47
	SW-846 7470A (Dissolved)			08/15/2023 15:17	08/16/2023 16:12
23071810-039E	G270	08/14/2023 13:45	08/14/2023 18:10		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 12:11
23071810-039F	G270	08/14/2023 13:45	08/14/2023 18:10		
	SW-846 9060A				09/05/2023 17:35
	SW-846 9066 (Total)				08/21/2023 13:56
23071810-039G	G270	08/14/2023 13:45	08/14/2023 18:10		
	SW-846 9060A				08/28/2023 23:49
23071810-050A	G280	08/14/2023 14:58	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 14:58
	Field Elevation Measurements				08/14/2023 14:58
	Standard Methods 2130 B Field				08/14/2023 14:58
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 14:58
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 13:51
	Standard Methods 2320 B 1997, 2011				08/16/2023 13:51
	Standard Methods 2510 B Field				08/14/2023 14:58
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 11:08
	Standard Methods 2550 B Field				08/14/2023 14:58
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:26
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 13:24
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 14:58
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 13:34
	SW-846 9036 (Total)				08/30/2023 16:44
	SW-846 9040B Field				08/14/2023 14:58
	SW-846 9214 (Total)				08/16/2023 11:39
	SW-846 9251 (Total)				08/30/2023 16:45
23071810-050B	G280	08/14/2023 14:58	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:45
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:45
	Standard Methods 2550 B Field				08/14/2023 14:58



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:32
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 12:28
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 12:28
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 13:35
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/23/2023 17:05
	SW-846 9214 (Dissolved)				08/16/2023 15:37
	SW-846 9251 (Dissolved)				08/23/2023 17:05
23071810-050C	G280	08/14/2023 14:58	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:50	08/16/2023 16:51
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/18/2023 17:39	08/21/2023 21:02
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:50	09/01/2023 7:20
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:50	09/07/2023 20:34
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/18/2023 17:39	09/08/2023 14:43
	SW-846 7470A (Total)			08/22/2023 13:22	08/23/2023 22:03
23071810-050D	G280	08/14/2023 14:58	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:22
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/01/2023 18:53
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 4:30
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 21:36
	SW-846 7470A (Dissolved)			08/22/2023 13:22	08/23/2023 22:05
23071810-050E	G280	08/14/2023 14:58	08/14/2023 18:10		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 12:37
23071810-050F	G280	08/14/2023 14:58	08/14/2023 18:10		
	SW-846 9060A				09/05/2023 18:11
	SW-846 9066 (Total)				08/21/2023 14:31
23071810-050G	G280	08/14/2023 14:58	08/14/2023 18:10		
	SW-846 9060A				08/29/2023 0:50
23071810-051A	G281	08/14/2023 16:06	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 16:06
	Field Elevation Measurements				08/14/2023 16:06
	Standard Methods 2130 B Field				08/14/2023 16:06
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 16:06
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 13:58
	Standard Methods 2320 B 1997, 2011				08/16/2023 13:58
	Standard Methods 2510 B Field				08/14/2023 16:06
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 11:41



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
	Standard Methods 2550 B Field				08/14/2023 16:06
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:29
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 13:26
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 16:06
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 13:35
	SW-846 9036 (Total)				08/30/2023 16:58
	SW-846 9040B Field				08/14/2023 16:06
	SW-846 9214 (Total)				08/16/2023 12:23
	SW-846 9251 (Total)				08/30/2023 16:53
23071810-051B	G281	08/14/2023 16:06	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:52
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:52
	Standard Methods 2550 B Field				08/14/2023 16:06
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:32
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 14:19
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 13:37
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/23/2023 17:18
	SW-846 9251 (Dissolved)				08/23/2023 17:13
23071810-051C	G281	08/14/2023 16:06	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 16:52
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 7:26
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 20:41
	SW-846 7470A (Total)			08/22/2023 13:22	08/24/2023 19:55
23071810-051D	G281	08/14/2023 16:06	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:22
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/01/2023 18:59
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 5:35
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 21:42
23071810-051E	G281	08/14/2023 16:06	08/14/2023 18:10		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 9:52
23071810-051F	G281	08/14/2023 16:06	08/14/2023 18:10		
	SW-846 9060A				09/05/2023 18:47
23071810-051G	G281	08/14/2023 16:06	08/14/2023 18:10		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 9060A				08/29/2023 0:55
23071810-075A	G401	08/11/2023 11:22	08/11/2023 14:27		
	Ferrous Iron by CHEMets Kit				08/11/2023 11:22
	Field Elevation Measurements				08/11/2023 11:22
	Standard Methods 2130 B Field				08/11/2023 11:22
	Standard Methods 18th Ed. 2580 B Field				08/11/2023 11:22
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 14:05
	Standard Methods 2320 B 1997, 2011				08/16/2023 14:05
	Standard Methods 2510 B Field				08/11/2023 11:22
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 9:20
	Standard Methods 2550 B Field				08/11/2023 11:22
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:02
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:02
	Standard Methods 4500-O G Field				08/11/2023 11:22
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 16:21
	SW-846 9036 (Total)				08/30/2023 20:26
	SW-846 9040B Field				08/11/2023 11:22
	SW-846 9214 (Total)				08/16/2023 11:21
	SW-846 9251 (Total)				09/01/2023 15:22
23071810-075B	G401	08/11/2023 11:22	08/11/2023 14:27		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:22
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:22
	Standard Methods 2550 B Field				08/11/2023 11:22
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:44
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:26
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:57
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 16:21
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 16:06
	SW-846 9251 (Dissolved)				08/29/2023 15:44
23071810-075C	G401	08/11/2023 11:22	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:44
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/18/2023 16:00
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:21
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:27



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/08/2023 16:00
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:34
23071810-075D	G401	08/11/2023 11:22	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 11:56
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:08
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/17/2023 16:32
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	08/31/2023 20:42
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 0:05
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 13:10
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/13/2023 18:28
23071810-075E	G401	08/11/2023 11:22	08/11/2023 14:27		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 12:41
23071810-075F	G401	08/11/2023 11:22	08/11/2023 14:27		
	SW-846 9060A				09/01/2023 0:02
23071810-075G	G401	08/11/2023 11:22	08/11/2023 14:27		
	SW-846 9060A				08/31/2023 14:03
23071810-076A	G402	08/11/2023 12:09	08/11/2023 14:27		
	Ferrous Iron by CHEMets Kit				08/11/2023 12:09
	Field Elevation Measurements				08/11/2023 12:09
	Standard Methods 2130 B Field				08/11/2023 12:09
	Standard Methods 18th Ed. 2580 B Field				08/11/2023 12:09
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 14:10
	Standard Methods 2320 B 1997, 2011				08/16/2023 14:10
	Standard Methods 2510 B Field				08/11/2023 12:09
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 9:20
	Standard Methods 2550 B Field				08/11/2023 12:09
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:04
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:04
	Standard Methods 4500-O G Field				08/11/2023 12:09
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 16:21
	SW-846 9036 (Total)				08/30/2023 20:42
	SW-846 9040B Field				08/11/2023 12:09
	SW-846 9214 (Total)				08/16/2023 11:31
	SW-846 9251 (Total)				08/30/2023 20:37
23071810-076B	G402	08/11/2023 12:09	08/11/2023 14:27		



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
					Standard Methods 2320 B (Dissolved) 1997, 2011 08/15/2023 12:31
					Standard Methods 2320 B (Dissolved) 1997, 2011 08/15/2023 12:31
					Standard Methods 2550 B Field 08/11/2023 12:09
					Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 08/11/2023 17:46
					Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 08/11/2023 22:35
					Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 08/11/2023 22:35
					Standard Methods 4500-P E (Dissolved) 1999, 2011 08/11/2023 16:22
					Standard Methods 4500-P E (Dissolved) 1999 08/12/2023 0:00
					SW-846 9036 (Dissolved) 08/29/2023 16:15
					SW-846 9251 (Dissolved) 08/29/2023 16:10
23071810-076C	G402	08/11/2023 12:09	08/11/2023 14:27		
				SW-846 3005A, 6010B, Metals by ICP (Total) 08/14/2023 11:50	08/16/2023 17:49
				SW-846 3005A, 6020A, Metals by ICPMS (Total) 08/14/2023 11:50	09/01/2023 1:42
				SW-846 3005A, 6020A, Metals by ICPMS (Total) 08/14/2023 11:50	09/07/2023 23:34
				SW-846 3005A, 6020A, Metals by ICPMS (Total) 08/14/2023 11:50	09/07/2023 23:40
				SW-846 7470A (Total) 08/14/2023 18:11	08/15/2023 18:36
23071810-076D	G402	08/11/2023 12:09	08/11/2023 14:27		
				SW-846 3005A, 6010B, Metals by ICP (Dissolved) 08/14/2023 13:35	08/16/2023 11:57
				SW-846 3005A, 6010B, Metals by ICP (Dissolved) 08/14/2023 13:35	08/16/2023 16:18
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) 08/14/2023 13:35	08/31/2023 21:33
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) 08/14/2023 13:35	09/11/2023 0:36
23071810-076E	G402	08/11/2023 12:09	08/11/2023 14:27		
				SW-846 9012A (Total) 08/15/2023 20:13	08/17/2023 6:43
23071810-076F	G402	08/11/2023 12:09	08/11/2023 14:27		
				SW-846 9060A	09/01/2023 0:08
23071810-076G	G402	08/11/2023 12:09	08/11/2023 14:27		
				SW-846 9060A	08/31/2023 14:09
23071810-077A	G403	08/11/2023 10:51	08/11/2023 14:27		
				Ferrous Iron by CHEMets Kit	08/11/2023 10:51
				Field Elevation Measurements	08/11/2023 10:51
				Standard Methods 2130 B Field	08/11/2023 10:51
				Standard Methods 18th Ed. 2580 B Field	08/11/2023 10:51
				Standard Methods 2320 B (Total) 1997, 2011	08/16/2023 14:17
				Standard Methods 2320 B 1997, 2011	08/16/2023 14:17
				Standard Methods 2510 B Field	08/11/2023 10:51
				Standard Methods 2540 C (Total) 1997, 2011	08/16/2023 9:20
				Standard Methods 2550 B Field	08/11/2023 10:51



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:06
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:06
	Standard Methods 4500-O G Field				08/11/2023 10:51
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 16:23
	SW-846 9036 (Total)				09/08/2023 16:45
	SW-846 9040B Field				08/11/2023 10:51
	SW-846 9214 (Total)				08/16/2023 11:33
	SW-846 9251 (Total)				08/30/2023 20:45
23071810-077B	G403	08/11/2023 10:51	08/11/2023 14:27		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:47
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:47
	Standard Methods 2550 B Field				08/11/2023 10:51
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:46
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:37
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:37
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 16:23
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/23/2023 21:55
	SW-846 9251 (Dissolved)				08/29/2023 16:24
23071810-077C	G403	08/11/2023 10:51	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:49
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:48
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:46
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:43
23071810-077D	G403	08/11/2023 10:51	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 11:58
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:19
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	08/31/2023 21:39
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 0:42
23071810-077E	G403	08/11/2023 10:51	08/11/2023 14:27		
	SW-846 9012A (Total)			08/15/2023 20:13	08/17/2023 6:46
23071810-077F	G403	08/11/2023 10:51	08/11/2023 14:27		
	SW-846 9060A				09/01/2023 0:15
23071810-077G	G403	08/11/2023 10:51	08/11/2023 14:27		
	SW-846 9060A				08/31/2023 14:15



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
23071810-078A	G404	08/14/2023 15:46	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 15:46
	Field Elevation Measurements				08/14/2023 15:46
	Standard Methods 2130 B Field				08/14/2023 15:46
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 15:46
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 14:24
	Standard Methods 2320 B 1997, 2011				08/16/2023 14:24
	Standard Methods 2510 B Field				08/14/2023 15:46
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 11:43
	Standard Methods 2550 B Field				08/14/2023 15:46
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:26
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 13:29
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 15:46
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 13:39
	SW-846 9036 (Total)				08/30/2023 20:33
	SW-846 9040B Field				08/14/2023 15:46
	SW-846 9214 (Total)				08/16/2023 12:27
	SW-846 9251 (Total)				09/01/2023 15:43
23071810-078B	G404	08/14/2023 15:46	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:09
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:09
	Standard Methods 2550 B Field				08/14/2023 15:46
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:33
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:28
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:28
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 13:39
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/30/2023 13:28
	SW-846 9251 (Dissolved)				08/23/2023 22:20
23071810-078C	G404	08/14/2023 15:46	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 16:52
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 7:32
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 20:54
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 21:00
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/11/2023 7:40	09/18/2023 10:26
	SW-846 7470A (Total)			08/22/2023 13:22	08/23/2023 22:14



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
23071810-078D	G404	08/14/2023 15:46	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:23
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/01/2023 19:06
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 5:40
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 21:47
23071810-078E	G404	08/14/2023 15:46	08/14/2023 18:10		
	SW-846 9012A (Total)			08/16/2023 20:03	08/17/2023 8:14
23071810-078F	G404	08/14/2023 15:46	08/14/2023 18:10		
	SW-846 9060A				09/01/2023 1:14
23071810-078G	G404	08/14/2023 15:46	08/14/2023 18:10		
	SW-846 9060A				08/31/2023 15:21
23071810-079A	G405	08/11/2023 12:41	08/11/2023 14:27		
	Ferrous Iron by CHEMets Kit				08/11/2023 12:41
	Field Elevation Measurements				08/11/2023 12:41
	Standard Methods 2130 B Field				08/11/2023 12:41
	Standard Methods 18th Ed. 2580 B Field				08/11/2023 12:41
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 14:31
	Standard Methods 2320 B 1997, 2011				08/16/2023 14:31
	Standard Methods 2510 B Field				08/11/2023 12:41
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 9:21
	Standard Methods 2550 B Field				08/11/2023 12:41
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:08
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:08
	Standard Methods 4500-O G Field				08/11/2023 12:41
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 16:24
	SW-846 9036 (Total)				09/06/2023 13:28
	SW-846 9040B Field				08/11/2023 12:41
	SW-846 9214 (Total)				08/16/2023 11:36
	SW-846 9251 (Total)				08/30/2023 21:09
23071810-079B	G405	08/11/2023 12:41	08/11/2023 14:27		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:54
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:54
	Standard Methods 2550 B Field				08/11/2023 12:41
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:46
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:39



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:39
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 16:24
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 16:41
	SW-846 9251 (Dissolved)				08/23/2023 22:28
23071810-079C	G405	08/11/2023 12:41	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:50
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:54
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:53
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:59
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:45
23071810-079D	G405	08/11/2023 12:41	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 12:17
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:20
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	08/31/2023 21:46
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 0:49
23071810-079E	G405	08/11/2023 12:41	08/11/2023 14:27		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 10:10
23071810-079F	G405	08/11/2023 12:41	08/11/2023 14:27		
	SW-846 9060A				09/01/2023 1:32
23071810-079G	G405	08/11/2023 12:41	08/11/2023 14:27		
	SW-846 9060A				08/31/2023 15:27
23071810-080A	G406	08/11/2023 10:13	08/11/2023 14:27		
	Ferrous Iron by CHEMets Kit				08/11/2023 10:13
	Field Elevation Measurements				08/11/2023 10:13
	Standard Methods 2130 B Field				08/11/2023 10:13
	Standard Methods 18th Ed. 2580 B Field				08/11/2023 10:13
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 14:39
	Standard Methods 2320 B 1997, 2011				08/16/2023 14:39
	Standard Methods 2510 B Field				08/11/2023 10:13
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 9:21
	Standard Methods 2550 B Field				08/11/2023 10:13
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:24
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:24
	Standard Methods 4500-O G Field				08/11/2023 10:13
	Standard Methods 4500-P E 1999				08/12/2023 0:00



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
	Standard Methods 4500-P E 1999, 2011				08/11/2023 16:25
	SW-846 9036 (Total)				08/30/2023 21:21
	SW-846 9040B Field				08/11/2023 10:13
	SW-846 9214 (Total)				08/16/2023 11:38
	SW-846 9251 (Total)				08/30/2023 21:17
23071810-080B	G406	08/11/2023 10:13	08/11/2023 14:27		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:01
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:01
	Standard Methods 2550 B Field				08/11/2023 10:13
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:46
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:41
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 22:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 16:27
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/23/2023 22:40
	SW-846 9251 (Dissolved)				08/29/2023 16:45
23071810-080C	G406	08/11/2023 10:13	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:51
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 2:01
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/08/2023 0:31
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/08/2023 0:38
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/08/2023 16:06
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:47
23071810-080D	G406	08/11/2023 10:13	08/11/2023 14:27		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 12:17
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:20
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	08/31/2023 21:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 0:55
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/13/2023 18:33
23071810-080E	G406	08/11/2023 10:13	08/11/2023 14:27		
	SW-846 9012A (Total)			08/15/2023 20:13	08/17/2023 6:51
23071810-080F	G406	08/11/2023 10:13	08/11/2023 14:27		
	SW-846 9060A				09/01/2023 1:38
23071810-080G	G406	08/11/2023 10:13	08/11/2023 14:27		
	SW-846 9060A				08/31/2023 15:33
23071810-081A	G407	08/10/2023 14:32	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 14:32



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	Field Elevation Measurements				08/10/2023 14:32
	Standard Methods 2130 B Field				08/10/2023 14:32
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 14:32
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 11:33
	Standard Methods 2320 B 1997, 2011				08/16/2023 11:33
	Standard Methods 2510 B Field				08/10/2023 14:32
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 11:10
	Standard Methods 2550 B Field				08/10/2023 14:32
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:42
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:39
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:39
	Standard Methods 4500-O G Field				08/10/2023 14:32
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:11
	SW-846 9036 (Total)				08/30/2023 21:30
	SW-846 9040B Field				08/10/2023 14:32
	SW-846 9214 (Total)				08/16/2023 10:52
	SW-846 9251 (Total)				08/30/2023 21:25
23071810-081B	G407	08/10/2023 14:32	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:57
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:57
	Standard Methods 2550 B Field				08/10/2023 14:32
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:42
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:33
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:33
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 14:12
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 17:07
	SW-846 9251 (Dissolved)				08/23/2023 22:44
23071810-081C	G407	08/10/2023 14:32	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:52
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 2:58
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/08/2023 0:44
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:50
23071810-081D	G407	08/10/2023 14:32	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 12:18
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:21
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	08/31/2023 21:58



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 1:01
23071810-081E	G407	08/10/2023 14:32	08/10/2023 17:30		
	SW-846 9012A (Total)			08/16/2023 20:03	08/17/2023 11:16
23071810-081F	G407	08/10/2023 14:32	08/10/2023 17:30		
	SW-846 9060A				09/01/2023 2:14
23071810-081G	G407	08/10/2023 14:32	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 15:40
23071810-099A	SG-03	08/08/2023 12:04	08/09/2023 17:52		
	Field Elevation Measurements				08/08/2023 12:04
23071810-107A	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 13:33
	Standard Methods 2320 B 1997, 2011				08/17/2023 13:33
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 12:39
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 21:06
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/16/2023 14:23
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/16/2023 14:23
	Standard Methods 4500-P E 1999				08/16/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/16/2023 13:52
	SW-846 9036 (Total)				08/30/2023 23:33
	SW-846 9214 (Total)				08/16/2023 14:38
	SW-846 9251 (Total)				08/30/2023 23:34
23071810-107B	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:27
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:27
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 21:01
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:12
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:12
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/16/2023 13:53
	Standard Methods 4500-P E (Dissolved) 1999				08/16/2023 0:00
	SW-846 9036 (Dissolved)				08/24/2023 1:18
	SW-846 9214 (Dissolved)				08/16/2023 14:41
	SW-846 9251 (Dissolved)				08/24/2023 1:18
23071810-107C	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/17/2023 10:29
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/18/2023 15:59
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	08/30/2023 12:36
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/11/2023 12:58



Dates Report

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/13/2023 22:48
	SW-846 7470A (Total)			08/22/2023 13:27	08/24/2023 11:44
23071810-107D	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/16/2023 10:09
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/16/2023 16:04
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/18/2023 15:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/01/2023 16:01
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/08/2023 2:39
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/13/2023 18:44
	SW-846 7470A (Dissolved)			08/22/2023 13:27	08/24/2023 11:46
23071810-107E	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 9012A (Total)			08/16/2023 20:03	08/17/2023 11:33
23071810-107F	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 9060A				09/01/2023 2:44
	SW-846 9066 (Total)				08/23/2023 10:41
23071810-107G	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 9060A				08/31/2023 17:09
23071810-107H	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	Standard Methods 4500-NH3 G (Dissolved) 1997, 2011				08/16/2023 11:36



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6A4 S , 1EME TIDY4

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS 1-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		BygM	1412	0	104.4	90	110	08/09/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS 2-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		ByBM	1412	0	100.1	90	110	08/10/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS 3-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		BygM	1412	0	104.1	90	110	08/11/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		By, M	1412	0	100.7	90	110	08/09/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		By, M	1412	0	100.6	90	110	08/10/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		By, M	1412	0	100.8	90	110	08/14/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS-5

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		ByBM	1412	0	100.1	90	110	08/14/2023

Batch 6 pp1ye: SI C PW PDO YVS Units) Sa nC

SamplID: LCS-6

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		By, M	1412	0	100.5	90	110	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30405 A,1 BM

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS 1-3											
pH		*	1.00		) a0	7.000	0	101.4	98.57	101.4	08/09/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS 2-3											
pH		*	1.00		) am	7.000	0	100.1	98.57	101.4	08/10/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS 3-3											
pH		*	1.00		) a)	7.000	0	101.0	98.57	101.4	08/11/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS2											
pH		*	1.00		) am	7.000	0	100.1	98.57	101.4	08/09/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS3											
pH		*	1.00		) am	7.000	0	100.1	98.57	101.4	08/10/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS4											
pH		*	1.00		) am	7.000	0	100.1	98.57	101.4	08/14/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS5											
pH		*	1.00		) a4	7.000	0	100.6	98.57	101.4	08/14/2023

Batch DOQ486 SET LYI LCP B(S		Units									
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
SampID: LCS6											
pH		*	1.00		) ap	7.000	0	100.3	98.57	101.4	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1EME TAW LYI CCP(, M I

Batch 6 ggBC 1 SDOVW Vam 3 pLy Units Oe:L

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		2, M	16.00	0	0	-100	100	08/12/2023

Batch 6 ggBC 1 SDOVW Vam LES Units Oe:L

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		q B	1000	0	91.4	90	110	08/12/2023

Batch 6 ggBC 1 SDOVW Vam 4. 7 Units Oe:L

SamplID: 23071810-011ADUP

RPD Limit I M

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		EBB				448.0	0.90	08/12/2023

Batch 6 gg1Mgg SDOVW Vam 3 pLy Units Oe:L

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		2, M	16.00	0	0	-100	100	08/14/2023

Batch 6 gg1Mgg SDOVW Vam LES Units Oe:L

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		Qg/	1000	0	93.6	90	110	08/14/2023

Batch 6 gg1Mgg SDOVW Vam 4. 7 Units Oe:L

SamplID: 23071810-102ADUP

RPD Limit I M

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		Eg,				446.0	3.19	08/14/2023

Batch 6 gg1I M SDOVW Vam 3 pLy Units Oe:L

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		2, M	16.00	0	0	-100	100	08/15/2023
Total Dissolved Solids		20	S	, M	16.00	0	125.0	-100	100	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6A4S , 1EME TAW LYI CCP(, M I

Batch 6gg11 M SDOVW Vam LES		Units Oe:L								
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		QgM	1000	0	93.0	90	110	08/15/2023
Total Dissolved Solids		20	B	QgB	1000	0	93.4	90	110	08/15/2023

Batch 6gg11 M SDOVW Vam 4. 7		Units Oe:L		RPD Limit I M						
SampID: 23071810-064ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		II M				1080	1.38	08/15/2023

Batch 6gg11 M SDOVW Vam 4. 7		Units Oe:L		RPD Limit I M						
SampID: 23071810-082ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		P19				752.0	0.79	08/15/2023

Batch 6gg11 PI SDOVW Vam 3 pLy		Units Oe:L								
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		2, M	16.00	0	0	-100	100	08/16/2023
Total Dissolved Solids		20		2, M	16.00	0	0	-100	100	08/16/2023

Batch 6gg11 PI SDOVW Vam LES		Units Oe:L								
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		C M	1000	0	96.0	90	110	08/16/2023
Total Dissolved Solids		20		Q8B	1000	0	98.4	90	110	08/16/2023

Batch 6gg11 PI SDOVW Vam 4. 7		Units Oe:L		RPD Limit I M						
SampID: 23071810-039ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		B1,				426.0	5.92	08/16/2023

Batch 6gg11 PI SDOVW Vam 4. 7		Units Oe:L		RPD Limit I M						
SampID: 23071810-054ADUP										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		I I M				1642	2.09	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1EME TAW LYI CCP(, M I

Batch 6gg1, , I SDOVW Vam 3 pLy Units Oe:L

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		2, M	16.00	0	0	-100	100	08/17/2023

Batch 6gg1, , I SDOVW Vam LES Units Oe:L

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		C19	1000	0	95.8	90	110	08/17/2023

Batch 6gg1, , I SDOVW Vam 4. 7 Units Oe:L

SamplID: 23071810-094ADUP

RPD Limit I M

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		100		I I 1M				11590	0.78	08/17/2023

Batch 6gg1, , I SDOVW Vam 4. 7 Units Oe:L

SamplID: 23071810-103ADUP

RPD Limit I M

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200		I PBM				17840	2.73	08/17/2023

SW 84 - 64 3 0V6 A4 S B1MM6 5g < T4 SSAL 04 YI CCP(, M I

Batch 6ggB99B SDOVW Vam 3 pLy Units Oe:L

SamplID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		2 M I M	0.0270	0	0	-100	100	08/11/2023

Batch 6ggB99B SDOVW Vam LES Units Oe:L

SamplID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I Mj	1.000	0	102.6	90	110	08/11/2023

Batch 6ggB99B SDOVW Vam 3 S Units Oe:L

SamplID: 23071810-002GMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I a	2.000	0	95.3	90	110	08/11/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S B1MM6 5 g < T4 SSAL 04 YI CCP(, M I

Batch 6 ggB99B SDOVWJ Vam 3 S4		Units Oe:L		RPD Limit I M						
SampleID: 23071810-002GMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I Cg	2.000	0	96.6	1.906	1.41	08/11/2023

Batch 6 ggB99B SDOVWJ Vam 3 S		Units Oe:L		RPD Limit I M						
SampleID: 23071810-010EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I 99	2.000	0	94.2	90	110	08/11/2023

Batch 6 ggB99B SDOVWJ Vam 3 S4		Units Oe:L		RPD Limit I M						
SampleID: 23071810-010EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I 99	2.000	0	94.0	1.885	0.32	08/11/2023

Batch 6 ggB99B SDOVWJ Vam 3 S		Units Oe:L		RPD Limit I M						
SampleID: 23071810-101FMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I CM	2.000	0.02700	93.7	90	110	08/11/2023

Batch 6 ggB99B SDOVWJ Vam 3 S4		Units Oe:L		RPD Limit I M						
SampleID: 23071810-101FMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I C,	2.000	0.02700	94.4	1.901	0.73	08/11/2023

Batch 6 ggBC1I SDOVWJ Vam 3 pLy		Units Oe:L		RPD Limit I M						
SampleID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		2 M I M	0.0270	0	0	-100	100	08/14/2023

Batch 6 ggBC1I SDOVWJ Vam LES		Units Oe:L		RPD Limit I M						
SampleID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		MC9	1.000	0	98.4	90	110	08/14/2023

Batch 6 ggBC1I SDOVWJ Vam 3 S		Units Oe:L		RPD Limit I M						
SampleID: 23071810-004GMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10	S	, 1/	2.000	0.7670	89.6	90	110	08/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S B1MM6 5 g < T4 SSAL 04 YI CCP(, M I

Batch 6 ggBC1I SDOVV Vam 3 S4		Units Oe:L		RPD Limit I M						
SampID: 23071810-004GMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		, 19	2.000	0.7670	90.6	2.560	0.74	08/14/2023

Batch 6 ggBC1I SDOVV Vam 3 S		Units Oe:L		RPD Limit I M						
SampID: 23071810-095GMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I 9,	2.000	0	91.2	90	110	08/14/2023

Batch 6 ggBC1I SDOVV Vam 3 S4		Units Oe:L		RPD Limit I M						
SampID: 23071810-095GMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I 9I	2.000	0	90.7	1.825	0.60	08/14/2023

Batch 6 gg1M0P SDOVV Vam 3 pLy		Units Oe:L		RPD Limit I M						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		2 MIM	0.0270	0	0	-100	100	08/16/2023

Batch 6 gg1M0P SDOVV Vam LES		Units Oe:L		RPD Limit I M						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		I M	1.000	0	102.4	90	110	08/16/2023

SW 84 - 64 3 0V6 A4 S B1MM6 A, p T4 SSAL 04 Y, MM(, M I

Batch 6 ggB9CM SDOVV Vam 3 S		Units Oe:L		RPD Limit I M						
SampID: 23071810-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		M1M	0.5000	0	99.2	85	115	08/10/2023

Batch 6 ggB9CM SDOVV Vam 3 S4		Units Oe:L		RPD Limit I M						
SampID: 23071810-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		M1M	0.5000	0	99.0	0.4960	0.20	08/10/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BMS AET L4 YSSAI C04 PEBBE(EBDD

Batch 6 : : , g / B SOV) Vh) mp 3 S

Units V yd

SampleID: 23071810-009BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 /	0.5000	0	98.4	85	115	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-009BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 B	0.5000	0	100.6	0.4920	2.21	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S

Units V yd

SampleID: 23071810-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 B	0.5000	0	100.4	85	115	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 B	0.5000	0	99.8	0.5020	0.60	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S

Units V yd

SampleID: 23071810-013BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 .	0.5000	0	94.0	85	115	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-013BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 B	0.5000	0	99.0	0.4700	5.18	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S

Units V yd

SampleID: 23071810-018BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 /	0.5000	0	98.2	85	115	08/10/2023

Batch 6 : : , g / B SOV) Vh) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-018BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 B	0.5000	0	100.4	0.4910	2.22	08/10/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1B8 AET L4 YSSAI C04 PEBBE(EBDD

Batch 6 : : , g / B SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-060BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 /	0.5000	0	98.8	85	115	08/10/2023

Batch 6 : : , g / B SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-060BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 B	0.5000	0	99.8	0.4940	1.01	08/10/2023

Batch 6 : : , / DD SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 .	0.5000	0	94.8	85	115	08/11/2023

Batch 6 : : , / DD SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-005BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 g	0.5000	0	95.2	0.4740	0.42	08/11/2023

Batch 6 : : , / DD SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-061BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 .	0.5000	0	94.8	85	115	08/11/2023

Batch 6 : : , / DD SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-061BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 .	0.5000	0	94.4	0.4740	0.42	08/11/2023

Batch 6 : : , / DD SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-081BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 g	0.5000	0	95.8	85	115	08/11/2023

Batch 6 : : , / DD SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-081BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 .	0.5000	0	94.6	0.4790	1.26	08/11/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BBS AET L4 YSSAI C04 PEBBE(EBDD

Batch 6 : : / DD SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 .	0.5000	0	94.6	85	115	08/11/2023

Batch 6 : : / DD SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-095BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 g	0.5000	0	95.2	0.4730	0.63	08/11/2023

Batch 6 : : 1B , SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-051BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 g	0.5000	0	96.4	85	115	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-051BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 /	0.5000	0	97.8	0.4820	1.44	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-052BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 D	0.5000	0	102.6	85	115	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-052BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 D	0.5000	0	101.8	0.5130	0.78	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S

Units V yd

SampleID: 23071810-110BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 /	0.5000	0	97.8	85	115	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S4

Units V yd

RPD Limit **DB**

SampleID: 23071810-110BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		E2 /	0.5000	0	98.0	0.4890	0.20	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BBNAET IAWW I PEBBE(EBDD

Batch 6 : , / g B SOV) Vh) mp 3 TI 7 Units V yd

SampleID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		9 B2B1	0.0250	0	0	-100	100	08/10/2023

Batch 6 : , / g B SOV) Vh) mp 1 KS Units V yd

SampleID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		D2E,	1.250	0	98.8	90	110	08/10/2023

Batch 6 : , / DD SOV) Vh) mp 3 TI 7 Units V yd

SampleID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		9 B2B1	0.0250	0	0	-100	100	08/11/2023

Batch 6 : , / DD SOV) Vh) mp 3 TI 7 Units V yd

SampleID: MB-R334911

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.50		9 B2B	0.0250	0	0	-100	100	08/11/2023

Batch 6 : , / DD SOV) Vh) mp 1 KS Units V yd

SampleID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		D2E,	1.250	0	99.2	90	110	08/11/2023

Batch 6 : , / DD SOV) Vh) mp 1 KS Units V yd

SampleID: LCS-R334911

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		2.50	J	D2E	1.250	0	99.2	90	110	08/11/2023

Batch 6 : , / DD SOV) Vh) mp 3 S Units V yd

SampleID: 23071810-033AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		B2 <	0.5000	0	91.4	85	115	08/11/2023

Batch 6 : , / DD SOV) Vh) mp 3 S4 Units V yd

SampleID: 23071810-033AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		B2B	0.5000	0	99.0	0.4570	7.98	08/11/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BMS AET IAWW I PEBBE(EBDD

Batch 6 : : , / DD SOV) V6) mp 3 S

Units V yd

SamplID: 23071810-083AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.05	0.5000	0	101.0	85	115	08/11/2023

Batch 6 : : , / DD SOV) V6) mp 3 S4

Units V yd

RPD Limit DB

SamplID: 23071810-083AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.05	0.5000	0	101.0	0.5050	0.00	08/11/2023

Batch 6 : : 1B , SOV) V6) mp 3 T1 7

Units V yd

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.05	0.0250	0	0	-100	100	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 1 KS

Units V yd

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		0.25	1.250	0	95.2	90	110	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S

Units V yd

SamplID: 23071810-039AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.05	0.5000	0	99.8	85	115	08/15/2023

Batch 6 : : 1B , SOV) V6) mp 3 S4

Units V yd

RPD Limit DB

SamplID: 23071810-039AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.05	0.5000	0	99.2	0.4990	0.60	08/15/2023

SW 84 - 64 3 0V6 A4 S , 1BMS A: L4 YSAI C04 PEBBE(EBDD

Batch 6 : : , g1. SOV) V6) mp 3 S

Units V yd

SamplID: 23071810-009BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.05	0.2500	0	99.6	85	115	08/10/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6A4 S , 1BBA AET L4 YSAI C04 P(BBBD(BOO

Batch	6 EE, g/l	SV	aWrapy	3 S4	Units) e:l	RPD Limit					OB
SampleID: 23071810-009BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		EX 1B	0.2500	0	100.0	0.2490	0.40	08/10/2023	

Batch	6 EE, g/l	SV	aWrapy	3 S	Units) e:l	RPD Limit					OB
SampleID: 23071810-016BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	E	QBE	0.2500	0.7610	105.6	85	115	08/10/2023	

Batch	6 EE, g/l	SV	aWrapy	3 S4	Units) e:l	RPD Limit					OB
SampleID: 23071810-016BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	E	QBE	0.2500	0.7610	104.0	1.025	0.39	08/10/2023	

Batch	6 EE, g/l	SV	aWrapy	3 S	Units) e:l	RPD Limit					OB
SampleID: 23071810-102BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		EX 1,	0.2500	0	101.6	85	115	08/10/2023	

Batch	6 EE, g/l	SV	aWrapy	3 S4	Units) e:l	RPD Limit					OB
SampleID: 23071810-102BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		EX 1B	0.2500	0	100.0	0.2540	1.59	08/10/2023	

Batch	6 EE, . E	SV	aWrapy	3 S	Units) e:l	RPD Limit					OB
SampleID: 23071810-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		EX / 1	0.2500	0.02600	99.6	85	115	08/11/2023	

Batch	6 EE, . E	SV	aWrapy	3 S4	Units) e:l	RPD Limit					OB
SampleID: 23071810-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		EX / (	0.2500	0.02600	98.4	0.2750	1.10	08/11/2023

Batch	6 EE, . E	SV	aWrapy	3 S	Units) e:l	RPD Limit					OB
SampleID: 23071810-023BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		EX (0.2500	0.5370	106.0	85	115	08/11/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6A4 S , 1BBA AET L4 YSAI C04 P(BBBD(BOO

Batch 6EE . E		SV) aWrapy 3 S4		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-023BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		82 . 7	0.2500	0.5370	103.6	0.8020	0.75	08/11/2023

Batch 6EE . E		SV) aWrapy 3 S		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-072BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		82 1,	0.2500	0	101.6	85	115	08/11/2023

Batch 6EE . E		SV) aWrapy 3 S4		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-072BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		82 10	0.2500	0	100.4	0.2540	1.19	08/11/2023

Batch 6EE . E		SV) aWrapy 3 S		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-075BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	82 (/	0.2500	0.04900	71.2	85	115	08/11/2023

Batch 6EE . E		SV) aWrapy 3 S4		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-075BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	82 EE	0.2500	0.04900	73.6	0.2270	2.61	08/11/2023

Batch 6EE1B, g		SV) aWrapy 3 S		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-025BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		82 , 7	0.2500	0.3060	96.0	85	115	08/15/2023

Batch 6EE1B, g		SV) aWrapy 3 S4		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-025BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		82 , B	0.2500	0.3060	93.6	0.5460	1.10	08/15/2023

Batch 6EE1Q, g		SV) aWrapy 3 S		Units) e:l		RPD Limit OB				Date
SampleID: 23071810-050BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		/ 2E	2.500	4.650	99.2	85	115	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BBM AET L4 YSSAI C04 P (BBBB(BOO

Batch 6EE1Qg SV aWrapy 3 S4		Units) e:l		RPD Limit OB						
SampleID: 23071810-050BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		72 .	2.500	4.650	93.7	7.131	1.97	08/16/2023

SW 84 - 64 3 0V6 A4 S , 1BBM AET LVAW I P (BBBB(BOO

Batch 6EE, g/l SV aWrapy 3 91 K		Units) e:l								
SampleID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< B2B1 B						08/10/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< B2B1 B	0.0090	0	0	-100	100	08/10/2023

Batch 6EE, g/l SV aWrapy 1 S

Batch 6EE, g/l SV aWrapy 1 S		Units) e:l								
SampleID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		B2(1	0.5000	0	105.0	90	110	08/10/2023

Batch 6EE, g/l SV aWrapy 3 S

Batch 6EE, g/l SV aWrapy 3 S		Units) e:l								
SampleID: 23071810-060AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		B2 . /	0.2500	0.04100	102.4	85	115	08/10/2023

Batch 6EE, g/l SV aWrapy 3 S4

Batch 6EE, g/l SV aWrapy 3 S4		Units) e:l		RPD Limit OB						
SampleID: 23071810-060AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		B2 . ,	0.2500	0.04100	101.2	0.2970	1.02	08/10/2023

Batch 6EE, g/l SV aWrapy 3 S

Batch 6EE, g/l SV aWrapy 3 S		Units) e:l								
SampleID: 23071810-070AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		B2 7B	0.2500	0.01100	99.6	85	115	08/10/2023

Batch 6EE, g/l SV aWrapy 3 S4

Batch 6EE, g/l SV aWrapy 3 S4		Units) e:l		RPD Limit OB						
SampleID: 23071810-070AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		B2 1/	0.2500	0.01100	98.4	0.2600	1.16	08/10/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BBNA ET LVAW I P (BBBB(BCO

Batch 6EE, g/l		SV) aWhapy 3 S		Units) e:l							Date
SampID: 23071810-073AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		11 11	0.2500	0.01100	97.6	85	115		08/10/2023

Batch 6EE, g/l		SV) aWhapy 3 S4		Units) e:l		RPD Limit OB					Date
SampID: 23071810-073AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		1/ 1/	0.2500	0.01100	98.4	0.2550	0.78		08/10/2023

Batch 6EE, E		SV) aWhapy 3 91 K		Units) e:l							Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate (as N)		0.050		< B2B1 B							08/11/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< B2B1 B	0.0090	0	0	-100	100		08/11/2023

Batch 6EE, E		SV) aWhapy 1 S		Units) e:l							Date
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		1 . 1	0.5000	0	99.0	90	110		08/11/2023

Batch 6EE, E		SV) aWhapy 3 S		Units) e:l							Date
SampID: 23071810-038AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		1 . 1	0.2500	0.009000	100.0	85	115		08/11/2023

Batch 6EE, E		SV) aWhapy 3 S4		Units) e:l		RPD Limit OB					Date
SampID: 23071810-038AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		1 ,	0.2500	0.009000	98.0	0.2590	1.95		08/11/2023

Batch 6EE, E		SV) aWhapy 3 S		Units) e:l							Date
SampID: 23071810-082AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		1 . ,	0.2500	0.04900	98.0	85	115		08/11/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BBS AET LVAW I P (BBBB(BCO

Batch 6EE . E / SV) aWhapy 3 S4		Units) e:l		RPD Limit CB						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
SampID: 23071810-082AMSD										
Nitrogen, Nitrate-Nitrite (as N)		0.050		EQ . (	0.2500	0.04900	97.2	0.2940	0.68	08/11/2023

Batch 6EE . . / SV) aWhapy 3 9I K		Units) e:l						RPD Limit CB		Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: ICB/MBLK										
Nitrogen, Nitrate-Nitrite (as N)		0.050		< B2B1B	0.0090	0	0	-100	100	08/14/2023

Batch 6EE . . / SV) aWhapy I S		Units) e:l						RPD Limit CB		Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: ICV/LCS										
Nitrogen, Nitrate-Nitrite (as N)		0.050		EQ Q	0.5000	0	102.4	90	110	08/14/2023

Batch 6EE1B, g SV) aWhapy 3 9I K		Units) e:l						RPD Limit CB		Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: ICB/MBLK										
Nitrogen, Nitrate (as N)		0.050		< B2B1B						08/15/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< B2B1B	0.0090	0	0	-100	100	08/15/2023

Batch 6EE1B, g SV) aWhapy I S		Units) e:l						RPD Limit CB		Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: ICV/LCS										
Nitrogen, Nitrate-Nitrite (as N)		0.050		EQ B	0.5000	0	100.8	90	110	08/15/2023

Batch 6EE1B, g SV) aWhapy 3 S		Units) e:l						RPD Limit CB		Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: 23071810-029AMS										
Nitrogen, Nitrate-Nitrite (as N)		0.050		EQ , g	0.2500	0.01200	94.4	85	115	08/15/2023

Batch 6EE1B, g SV) aWhapy 3 S4		Units) e:l						RPD Limit CB		Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
SampID: 23071810-029AMSD										
Nitrogen, Nitrate-Nitrite (as N)		0.050		EQ , .	0.2500	0.01200	94.8	0.2480	0.40	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BEM AET LVAW YI CBBBPCB((

Batch 6EE1(Cg SDOVW Vam 3 pYy Units Oe:Y

SamplID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		/ B B B						08/16/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		/ B B B	0.0090	0	0	-100	100	08/16/2023

Batch 6EE1(Cg SDOVW Vam Y. S Units Oe:Y

SamplID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		B B (	0.5000	0	100.2	90	110	08/16/2023

SW 84 - 64 3 0V6 A4 S , 1BEM 0 L4SSAYK04I (<<<PCB((

Batch 6EE, g SDOVW Vam 3 S Units Oe:Y

SamplID: 23071810-032BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		B B B	0.0500	0.01100	98.0	85	115	08/11/2023

Batch 6EE, g SDOVW Vam 3 S4 Units Oe:Y

SamplID: 23071810-032BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		B B 1	0.0500	0.01100	108.0	0.06000	8.00	08/11/2023

Batch 6EE, g SDOVW Vam 3 S Units Oe:Y

SamplID: 23071810-038BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		B B ,	0.0500	0.007000	114.0	85	115	08/11/2023

Batch 6EE, g SDOVW Vam 3 S4 Units Oe:Y

SamplID: 23071810-038BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		B B ,	0.0500	0.007000	114.0	0.06400	0.00	08/11/2023

Batch 6EE, g SDOVW Vam 3 S Units Oe:Y

SamplID: 23071810-065BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		B B B	0.0500	0.007000	106.0	85	115	08/11/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BEM 0 L4 9SAYK041 (<<<PCB((

Batch	6 EE, g	SDOVW Vam 3 S4	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)											
	0.010		EB C	0.0500	0.007000	110.0	0.06000	3.28			08/11/2023

Batch	6 EE, g	SDOVW Vam 3 S	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Phosphorus, Orthophosphate (as P)											
	0.010		EB C	0.0500	0.01400	96.0	85	115			08/11/2023

Batch	6 EE, g	SDOVW Vam 3 S4	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)											
	0.010		EB 1	0.0500	0.01400	102.0	0.06200	4.72			08/11/2023

Batch	6 EE, g	SDOVW Vam 3 S	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Phosphorus, Orthophosphate (as P)											
	0.010		EB(	0.0500	0	102.0	85	115			08/11/2023

Batch	6 EE, g	SDOVW Vam 3 S4	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)											
	0.010		EB(	0.0500	0	102.0	0.05100	0.00			08/11/2023

Batch	6 EE, <Eg	SDOVW Vam 3 S	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Phosphorus, Orthophosphate (as P)											
	0.010		EB 1	0.0500	0.006000	102.0	85	115			08/10/2023

Batch	6 EE, <Eg	SDOVW Vam 3 S4	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)											
	0.010		EB 1g	0.0500	0.006000	104.0	0.05700	1.74			08/10/2023

Batch	6 EE, <Eg	SDOVW Vam 3 S	Units Oe:Y			RPD Limit (B					Date Analyzed
Analyses											
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Phosphorus, Orthophosphate (as P)											
	0.010		EB 1B	0.0500	0	100.0	85	115			08/10/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BEM 0 L4 9SAYK041 (<<<PCB((

Batch 6EE <Eg SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-071BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 <	0.0500	0	98.0	0.05000	2.02	08/10/2023

Batch 6EE <Eg SDOVW Vam 3 S		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-111BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 11	0.0500	0	110.0	85	115	08/10/2023

Batch 6EE <Eg SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-111BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 11	0.0500	0	110.0	0.05500	0.00	08/10/2023

Batch 6EE1BC< SDOVW Vam 3 S		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-029BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 B	0.0500	0.01800	104.0	85	115	08/15/2023

Batch 6EE1BC< SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-029BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 C	0.0500	0.01800	108.0	0.07000	2.82	08/15/2023

Batch 6EE1BC< SDOVW Vam 3 S		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-042BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 1,	0.0500	0	108.0	85	115	08/15/2023

Batch 6EE1BC< SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-042BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 C	0.0500	0	104.0	0.05400	3.77	08/15/2023

Batch 6EE1BC< SDOVW Vam 3 S		Units Oe:Y		RPD Limit (B						
SampleID: 23071810-051BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		0.010 1	0.0500	0.01100	90.0	85	115	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6 A4 S , 1BEM 0 L4 9SSAYK041 (<<<PCB((

Batch 6 EE1BC<		SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B				
SampID: 23071810-051BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		EB1	0.0500	0.01100	90.0	0.05600	0.00	08/15/2023

Batch 6 EE1(E1		SDOVW Vam 3 S		Units Oe:Y		RPD Limit (B				
SampID: 23071810-054BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		EB , <	0.0500	0	98.0	85	115	08/16/2023

Batch 6 EE1(E1		SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B				
SampID: 23071810-054BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		EB1B	0.0500	0	100.0	0.04900	2.02	08/16/2023

Batch 6 EE1(E1		SDOVW Vam 3 S		Units Oe:Y		RPD Limit (B				
SampID: 23071810-103BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		EB11	0.0500	0	110.0	85	115	08/16/2023

Batch 6 EE1(E1		SDOVW Vam 3 S4		Units Oe:Y		RPD Limit (B				
SampID: 23071810-103BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		EB1(	0.0500	0	102.0	0.05500	7.55	08/16/2023

SW 84 - 64 3 0V6 A4 S , 1BEM 0 (<<<PCB((

Batch 6 EE, g		SDOVW Vam 3 pYy		Units Oe:Y		RPD Limit (B				
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		/ EB B	0.0020	0	0	-100	100	08/11/2023

Batch 6 EE, g		SDOVW Vam Y. S		Units Oe:Y		RPD Limit (B				
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		EB B1	0.1000	0	105.0	90	110	08/11/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW 84 - 64 3 0V6A4 S , 1BBW 0 (<<<PCE((

Batch ~~6EE~~<Eg SDOVW Vam 3 pYy Units Oe:Y

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		/ BZ B	0.0020	0	0	-100	100	08/10/2023

Batch ~~6EE~~<Eg SDOVW Vam Y. S Units Oe:Y

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		BZ <<	0.1000	0	99.0	90	110	08/10/2023

Batch ~~6EE~~1BC< SDOVW Vam 3 pYy Units Oe:Y

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		/ BZ B	0.0020	0	0	-100	100	08/15/2023

Batch ~~6EE~~1BC< SDOVW Vam Y. S Units Oe:Y

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		BZ B1	0.1000	0	105.0	90	110	08/15/2023

Batch ~~6EE~~1(E1 SDOVW Vam 3 pYy Units Oe:Y

SamplID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		/ BZ B	0.0020	0	0	-100	100	08/16/2023

Batch ~~6EE~~1(E1 SDOVW Vam Y. S Units Oe:Y

SamplID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		BZ Bg	0.1000	0	108.0	90	110	08/16/2023

S Mj, <B(C- LVAW YI

Batch ~~QB~~ , < SDOVW Vam 3 pYy Units Oe:Y

SamplID: MBLK 230811 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		/ BZ B1	0.0015	0	0	-100	100	08/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 305A, 1BMB, ET

Batch A50) 43 SLY I BCI P(EDS Units Y OE

SampleID: LCS 230811 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0a0A)	0.0250	0	107.8	90	110	08/14/2023

Batch A50) 43 SLY I BCI P(mS Units Y OE

SampleID: 23071810-002EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0a0A6	0.0250	0	104.5	75	125	08/14/2023

Batch A50) 43 SLY I BCI P(mSp Units Y OE

RPD Limit 5y

SampleID: 23071810-002EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		0a0Ay	0.0250	0	100.2	0.02613	4.26	08/14/2023

Batch A508AA SLY I BCI P(meE: Units Y OE

SampleID: MBLK 230814 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		g 0a00y	0.0015	0	0	-100	100	08/15/2023

Batch A508AA SLY I BCI P(EDS Units Y OE

SampleID: LCS 230814 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0a0A6	0.0250	0	105.1	90	110	08/15/2023

Batch A508AA SLY I BCI P(mS Units Y OE

SampleID: 23071810-004EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0a0A6	0.0250	0	105.5	75	125	08/15/2023

Batch A508AA SLY I BCI P(mSp Units Y OE

RPD Limit 5y

SampleID: 23071810-004EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		0a0A6	0.0250	0	102.5	0.02636	2.83	08/15/2023

Batch A508AA SLY I BCI P(meE: Units Y OE

SampleID: MBLK 230814 TCN3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		g 0a00y	0.0015	0	0	-100	100	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 305A, 1BMB, ET

Batch	A508A4	SLY	ICI	P(	EDS	Units	Y	O/E				Date						
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
SampleID:	LCS 230814 TCN3																	
Cyanide										0.005		0a0A6	0.0250	0	103.6	85	115	08/15/2023

Batch	A508A4	SLY	ICI	P(	mS	Units	Y	O/E				Date						
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
SampleID:	23071810-020DMS																	
Cyanide										0.005		0a0A8	0.0250	0	111.3	75	125	08/15/2023

Batch	A508A4	SLY	ICI	P(	mSp	Units	Y	O/E				RPD Limit	5y	Date				
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
SampleID:	23071810-020DMSD																	
Cyanide										0.005		0a0A8	0.0250	0	110.8	0.02782	0.43	08/15/2023

Batch	A5035A	SLY	ICI	P(	meE:	Units	Y	O/E				Date						
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
SampleID:	MBLK 230815 TCN1																	
Cyanide										0.005		g 0a00y	0.0015	0	0	-100	100	08/16/2023

Batch	A5035A	SLY	ICI	P(	EDS	Units	Y	O/E				Date						
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
SampleID:	LCS 230815 TCN1																	
Cyanide										0.005		0a0A6	0.0250	0	104.5	90	110	08/16/2023

Batch	A5035A	SLY	ICI	P(	mS	Units	Y	O/E				Date						
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
SampleID:	23071810-036EMS																	
Cyanide										0.005	S	0a05)	0.0250	0	69.9	75	125	08/16/2023

Batch	A5035A	SLY	ICI	P(	mSp	Units	Y	O/E				RPD Limit	5y	Date				
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
SampleID:	23071810-036EMSD																	
Cyanide										0.005	R	0a0A4	0.0250	0	95.2	0.01747	30.72	08/16/2023

Batch	A5035A	SLY	ICI	P(	mS	Units	Y	O/E				Date						
Analyses									Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
SampleID:	23071810-042EMS																	
Cyanide										0.005		0a0A8	0.0250	0.001480	106.1	75	125	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 305A, 1BMB, ET

Batch	A5035A	SLY I BCI P(	mSp	Units	Y OE	RPD Limit	5y				Date	
Analyses												Analized
SampleID:	23071810-042EMSD											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Cyanide				0.005		0a0A8	0.0250	0.001480	106.3	0.02800	0.17	08/16/2023

Batch	A5035/	SLY I BCI P(	me E:	Units	Y OE						Date	
Analyses												Analized
SampleID:	MBLK 230815 TCN2											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Cyanide				0.005		g 0a00y	0.0015	0	0	-100	100	08/16/2023

Batch	A5035/	SLY I BCI P(	EDS	Units	Y OE						Date	
Analyses												Analized
SampleID:	LCS 230815 TCN2											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Cyanide				0.005		0a0A6	0.0250	0	104.1	90	110	08/16/2023

Batch	A5035/	SLY I BCI P(	mS	Units	Y OE						Date	
Analyses												Analized
SampleID:	23071810-051EMS											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Cyanide				0.005		0a0A8	0.0250	0	113.0	75	125	08/16/2023

Batch	A5035/	SLY I BCI P(	mSp	Units	Y OE	RPD Limit	5y				Date	
Analyses												Analized
SampleID:	23071810-051EMSD											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Cyanide				0.005	R	0a0A	0.0250	0	93.8	0.02824	18.51	08/16/2023

Batch	A5035/	SLY I BCI P(	mS	Units	Y OE						Date	
Analyses												Analized
SampleID:	23071810-079EMS											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Cyanide				0.005		0a0A)	0.0250	0	109.8	75	125	08/16/2023

Batch	A5035/	SLY I BCI P(	mSp	Units	Y OE	RPD Limit	5y				Date	
Analyses												Analized
SampleID:	23071810-079EMSD											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Cyanide				0.005		0a0Ay	0.0250	0	98.3	0.02744	10.99	08/16/2023

Batch	A5036)	SLY I BCI P(	me E:	Units	Y OE						Date	
Analyses												Analized
SampleID:	MBLK 230816 TCN1											
			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Cyanide				0.005		g 0a00y	0.0015	0	0	-100	100	08/17/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 305A, 1BMB, ET

Batch A5036) SLY I BCI P(EDS		Units Y O E									
SampleID: LCS 230816 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0a0A6	0.0250	0	104.4	90	110	08/17/2023	

Batch A5036) SLY I BCI P(mS		Units Y O E									
SampleID: 23071810-078EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0a0AA	0.0250	0	86.6	75	125	08/17/2023	

Batch A5036) SLY I BCI P(mSp		Units Y O E		RPD Limit 5y							
SampleID: 23071810-078EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005	R	0a0Ay	0.0250	0	101.1	0.02164	15.46	08/17/2023	

Batch A5036) SLY I BCI P(mS		Units Y O E									
SampleID: 23071810-083EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0a0A)	0.0250	0	108.1	75	125	08/17/2023	

Batch A5036) SLY I BCI P(mSp		Units Y O E		RPD Limit 5y							
SampleID: 23071810-083EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0a0A)	0.0250	0	108.6	0.02704	0.46	08/17/2023	

SW-846 30/ 6 p 2SME. 7 p 1

Batch 9//yA5) SLY I BCI P(mS		Units Y O E									
SampleID: 23071810-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100	S	A8y	200.0	124.3	80.5	85	115	08/18/2023	

Batch 9//yA5) SLY I BCI P(mSp		Units Y O E		RPD Limit 50							
SampleID: 23071810-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100	S	A8A	200.0	124.3	79.1	285.2	0.95	08/18/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30/6 pSSME. 7pT

Batch 9//y4yA SLYI BCI P(mS		Units Y OE									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		20	E	506	40.00	69.98	90.7	85	115	08/23/2023	

Batch 9//y4yA SLYI BCI P(mSp		Units Y OE		RPD Limit 50							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate		20	E	508	40.00	69.98	94.5	106.3	1.41	08/23/2023	

Batch 9//y4yA SLYI BCI P(mS		Units Y OE									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		100		/A/	200.0	126.0	98.4	85	115	08/23/2023	

Batch 9//y4yA SLYI BCI P(mSp		Units Y OE		RPD Limit 50							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate		100		/5y	200.0	126.0	94.7	322.9	2.33	08/23/2023	

Batch 9//y4yA SLYI BCI P(mS		Units Y OE									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		20	E	503	40.00	74.41	86.9	85	115	08/23/2023	

Batch 9//y4yA SLYI BCI P(mSp		Units Y OE		RPD Limit 50							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate		20	E	550	40.00	74.41	88.2	109.2	0.48	08/23/2023	

Batch 9//y4yA SLYI BCI P(mS		Units Y OE									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		200		)8/	400.0	400.3	95.6	85	115	08/23/2023

Batch 9//y4yA SLYI BCI P(mSp		Units Y OE		RPD Limit 50							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate		200)yA	400.0	400.3	87.9	782.9	4.03	08/23/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3056 A SSBMET, L

Batch m55p4py		SYI CP(CDO V S		Units I) aM							Date
SampleID: 23071810-053BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		100		45p	200.0	252.1	91.4	85	115		08/23/2023

Batch m55p4py		SYI CP(CDO V S,		Units I) aM		RPD Limit e0					Date
SampleID: 23071810-053BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		100		446	200.0	252.1	96.8	434.8	2.44		08/23/2023

Batch m55p685		SYI CP(CDO V S		Units I) aM							Date
SampleID: 23071810-069BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		200	E	e060	400.0	686.8	92.4	85	115		08/29/2023

Batch m55p685		SYI CP(CDO V S,		Units I) aM		RPD Limit e0					Date
SampleID: 23071810-069BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		200	E	e0: 0	400.0	686.8	95.8	1056	1.29		08/29/2023

Batch m55p685		SYI CP(CDO V S		Units I) aM							Date
SampleID: 23071810-101BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		50		e: :	100.0	90.46	86.0	85	115		08/29/2023

Batch m55p685		SYI CP(CDO V S,		Units I) aM		RPD Limit e0					Date
SampleID: 23071810-101BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		50	S	e: p	100.0	90.46	84.4	176.5	0.96		08/29/2023

Batch m55p: 64		SYI CP(CDO V S		Units I) aM							Date
SampleID: 23071810-062BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		100	S	50y	200.0	139.0	81.7	85	115		08/30/2023

Batch m55p: 64		SYI CP(CDO V S,		Units I) aM		RPD Limit e0					Date
SampleID: 23071810-062BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		100	S	50p	200.0	139.0	83.0	302.4	0.84		08/30/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3056 A SSB MET, L

Batch m55p: 64 SYI CP(CDO V S		Units I) dM									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		2000	E	ey000	4000	8358	90.3	85	115	08/30/2023	

Batch m55p: 64 SYI CP(CDO V S,		Units I) dM									RPD Limit e0	Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		2000	E	eye00	4000	8358	94.1	11970	1.27	08/30/2023		

SW-846 3056 APB Pg ML

Batch m55pye: SYI CP(CDO V / M2		Units I) dM									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		. e0	6.140	0	0	-100	100	08/17/2023	

Batch m55pye: SYI CP(CDO M / S		Units I) dM									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		y0	20.00	0	99.6	90	110	08/17/2023	

Batch m55p54e SYI CP(CDO V / M2		Units I) dM									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		. e0	6.140	0	0	-100	100	08/21/2023	

Batch m55p54e SYI CP(CDO M / S		Units I) dM									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		y0	20.00	0	98.0	90	110	08/21/2023	

Batch m55p4py SYI CP(CDO V / M2		Units I) dM									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		. e0	6.140	0	0	-100	100	08/23/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3056 APB PgML

Batch m55p4py		SYI CP(CDO M S		Units I) dM							Date
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		10		e3	20.00	0	95.9	90	110		08/23/2023

Batch m55p685		SYI CP(CDO V / M2		Units I) dM							Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		10		e0	6.140	0	0	-100	100		08/29/2023

Batch m55p685		SYI CP(CDO M S		Units I) dM							Date
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		10		e3	20.00	0	95.0	90	110		08/29/2023

Batch m55p685		SYI CP(CDO V S		Units I) dM							Date
SampID: 23071810-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		100		y33	200.0	125.8	86.5	85	115		08/29/2023

Batch m55p685		SYI CP(CDO V S,		Units I) dM		RPD Limit e0					Date
SampID: 23071810-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		100		y3:	200.0	125.8	85.4	298.9	0.72		08/29/2023

Batch m55p685		SYI CP(CDO V S		Units I) dM							Date
SampID: 23071810-017AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		100	S	yp8	200.0	102.8	77.4	85	115		08/29/2023

Batch m55p685		SYI CP(CDO V S,		Units I) dM		RPD Limit e0					Date
SampID: 23071810-017AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Sulfate		100	S	yp5	200.0	102.8	75.2	257.7	1.73		08/29/2023

Batch m55p: 64		SYI CP(CDO V / M2		Units I) dM							Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Sulfate		10		e0	6.140	0	0	-100	100		08/30/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3056 APB PgML

Batch m55p: 64 SYI CP(CDO M S Units I) aM

SampleID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		e3	20.00	0	96.6	90	110	08/30/2023

Batch m55p: 64 SYI CP(CDO V S Units I) aM

SampleID: 23071810-031AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20	E	eey	40.00	77.15	86.9	85	115	08/30/2023

Batch m55p: 64 SYI CP(CDO V S, Units I) aM

SampleID: 23071810-031AMSD

RPD Limit e0

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	E	eep	40.00	77.15	94.6	111.9	2.74	08/30/2023

Batch m55p: 64 SYI CP(CDO V S Units I) aM

SampleID: 23071810-043AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		46p	200.0	286.4	89.5	85	115	08/30/2023

Batch m55p: 64 SYI CP(CDO V S, Units I) aM

SampleID: 23071810-043AMSD

RPD Limit e0

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		4: e	200.0	286.4	92.2	465.4	1.15	08/30/2023

Batch m55p: 64 SYI CP(CDO V S Units I) aM

SampleID: 23071810-101AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50	S	e: y	100.0	87.16	84.7	85	115	08/30/2023

Batch m55p: 64 SYI CP(CDO V S, Units I) aM

SampleID: 23071810-101AMSD

RPD Limit e0

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		e85	100.0	87.16	96.0	171.9	6.37	08/30/2023

Batch m55p3e4 SYI CP(CDO V / M2 Units I) aM

SampleID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		. e0	6.140	0	0	-100	100	09/01/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3056 APB PgML

Batch m55p3e4 SYI CP(CDO M/ S Units l) dM

SampleID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		y0	20.00	0	98.7	90	110	09/01/2023

Batch m5560e0 SYI CP(CDO V/ M2 Units l) dM

SampleID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		. e0	6.140	0	0	-100	100	09/06/2023

Batch m5560e0 SYI CP(CDO M/ S Units l) dM

SampleID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		e3	20.00	0	97.0	90	110	09/06/2023

Batch m556e65 SYI CP(CDO V/ M2 Units l) dM

SampleID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		. e0	6.140	0	0	-100	100	09/08/2023

Batch m556e65 SYI CP(CDO M/ S Units l) dM

SampleID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		e8	20.00	0	91.5	90	110	09/08/2023

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Batch m55p646 SYI CP(CDO V/ M2 Units l) dM

SampleID: FILTER MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		. e9	0.4500	0	0	-100	100	08/28/2023

Batch m55p646 SYI CP(CDO V/ M2 Units l) dM

SampleID: MB-R335646

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		. e9	0.4500	0	0	-100	100	08/28/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30605

Batch P((D646 SA, 1BMEIET LYS		Units , I C									
SampID: LCS-R335646											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		40	5.000	0	93.8	90	110	08/28/2023	

Batch P((D646 SA, 1BMEIET) S		Units , I C									
SampID: 23071810-025GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0	S	40	5.000	1.350	71.2	85	115	08/28/2023	

Batch P((D646 SA, 1BMEIET) Sa		Units , I C				RPD Limit n0				Date Analyzed	
SampID: 23071810-025GMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Dissolved Organic Carbon		1.0	S	00	5.000	1.350	80.6	4.910	9.14	08/28/2023	

Batch P((D646 SA, 1BMEIET) S		Units , I C									
SampID: 23071810-037GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		00	5.000	0.8400	86.6	85	115	08/28/2023	

Batch P((D646 SA, 1BMEIET) Sa		Units , I C				RPD Limit n0				Date Analyzed	
SampID: 23071810-037GMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Dissolved Organic Carbon		1.0	S	40	5.000	0.8400	81.4	5.170	5.16	08/28/2023	

Batch P((D646 SA, 1BMEIET) S		Units , I C									
SampID: 23071810-060FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		60	5.000	1.840	90.2	85	115	08/29/2023	

Batch P((D646 SA, 1BMEIET) Sa		Units , I C				RPD Limit n0				Date Analyzed	
SampID: 23071810-060FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Dissolved Organic Carbon		1.0		60	5.000	1.840	92.0	6.350	1.41	08/29/2023	

Batch P((D8Dm SA, 1BMEIET) yLe		Units , I C									
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		: n0	0.4500	0	0	-100	100	08/31/2023	



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Client Project: COF-23Q3

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Batch P((D8Dm SA 1BME T) yLe		Units , I C									Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Total Organic Carbon (TOC)											08/31/2023
	1.0		nD	0.4500	0	0	-100	100			

Batch P((D8Dm SA 1BME T LYS		Units , I C									Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Total Organic Carbon (TOC)											08/31/2023
	1.0		4C	5.000	0	97.8	90	110			

Batch P((D8Dm SA 1BME T) S		Units , I C									Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Total Organic Carbon (TOC)											08/31/2023
	1.0		6D	5.000	1.210	95.2	85	115			

Batch P((D8Dm SA 1BME T) Sa		Units , I C		RPD Limit nD							Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Organic Carbon (TOC)											08/31/2023
	1.0		6D	5.000	1.210	98.8	5.970	2.97			

Batch P((D8Dm SA 1BME T) S		Units , I C									Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Dissolved Organic Carbon											08/31/2023
	1.0		6D	5.000	1.330	94.4	85	115			

Batch P((D8Dm SA 1BME T) Sa		Units , I C		RPD Limit nD							Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Dissolved Organic Carbon											08/31/2023
	1.0		6D	5.000	1.330	96.4	6.050	1.64			

Batch P((D8Dm SA 1BME T) S		Units , I C									Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Total Organic Carbon (TOC)											08/31/2023
	1.0	E	npD	5.000	7.650	94.2	85	115			

Batch P((D8Dm SA 1BME T) Sa		Units , I C		RPD Limit nD							Date
Analyses											Analyzed
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Organic Carbon (TOC)											08/31/2023
	1.0	E	npD	5.000	7.650	94.0	12.36	0.08			



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30605

Batch P((D8Dm SA 1BMEIET) S		Units, I C									Date
SampleID: 23071810-077GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Dissolved Organic Carbon		1.0		DD	5.000	0.8800	96.6	85	115	08/31/2023	

Batch P((D8Dm SA 1BMEIET) Sa		Units, I C									Date
SampleID: 23071810-077GMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Dissolved Organic Carbon		1.0		DB	5.000	0.8800	98.0	5.710	1.22	08/31/2023	

Batch P((D8Dm SA 1BMEIET) S		Units, I C									Date
SampleID: 23071810-078FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Total Organic Carbon (TOC)		1.0		VD	5.000	2.610	97.6	85	115	09/01/2023	

Batch P((D8Dm SA 1BMEIET) Sa		Units, I C									Date
SampleID: 23071810-078FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Total Organic Carbon (TOC)		1.0		VQ	5.000	2.610	94.6	7.490	2.02	09/01/2023	

Batch P((D8Dm SA 1BMEIET) S		Units, I C									Date
SampleID: 23071810-105FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Dissolved Organic Carbon		1.0		6C	5.000	1.590	99.6	85	115	08/31/2023	

Batch P((D8Dm SA 1BMEIET) Sa		Units, I C									Date
SampleID: 23071810-105FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Dissolved Organic Carbon		1.0		6Q	5.000	1.590	94.4	6.570	4.04	08/31/2023	

Batch P((D8(D SA 1BMEIET) yLe		Units, I C									Date
SampleID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Dissolved Organic Carbon		1.0		: nD	0.4500	0	0	-100	100	09/05/2023	

Batch P((D8(D SA 1BMEIET) yLe		Units, I C									Date
SampleID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Total Organic Carbon (TOC)		1.0		: nD	0.4500	0	0	-100	100	09/05/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

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SW-846 30605

Batch P((D3(D SA, 1BME T LYS		Units , I C									
SampleID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		40	5.000	0	90.4	90	110	09/05/2023	

Batch P((D3(D SA, 1BME T) S		Units , I C									
SampleID: 23071810-052EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		60	5.000	1.600	93.2	85	115	09/05/2023	

Batch P((D3(D SA, 1BME T) Sa		Units , I C		RPD Limit m0							
SampleID: 23071810-052EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		D3	5.000	1.600	86.2	6.260	5.75	09/05/2023	

Batch P((6068 SA, 1BME T) yLe		Units , I C									
SampleID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		: m0	0.4500	0	0	-100	100	09/07/2023	

Batch P((6068 SA, 1BME T) yLe		Units , I C									
SampleID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		: m0	0.4500	0	0	-100	100	09/07/2023	

Batch P((6068 SA, 1BME T LYS		Units , I C									
SampleID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		43	5.000	0	97.8	90	110	09/07/2023	

SW-846 3066 g/ B5L2

Batch P((Dn06 SA, 1BME T) yLe		Units , I C									
SampleID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		: 000D	0.0028	0	0	-100	100	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3066 gB/ B5L2

Batch P((Dn06 SA, 1BMEI ET LYS Units, I C

SamplID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		0.005		000	0.0500	0	107.0	90	110	08/16/2023

Batch P((Dn06 SA, 1BMEI ET) S Units, I C

SamplID: 23071810-002FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		5		D4	50.00	0	108.1	85	115	08/16/2023

Batch P((Dn06 SA, 1BMEI ET) Sa Units, I C

RPD Limit nD

SamplID: 23071810-002FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols		5		D4	50.00	0	108.0	54.07	0.11	08/16/2023

Batch P((Dn06 SA, 1BMEI ET) S Units, I C

SamplID: 23071810-004FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		5		DV	50.00	3.490	106.5	85	115	08/16/2023

Batch P((Dn06 SA, 1BMEI ET) Sa Units, I C

RPD Limit nD

SamplID: 23071810-004FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols		5		D6	50.00	3.490	104.9	56.76	1.47	08/16/2023

Batch P((Dp86 SA, 1BMEI ET) yLe Units, I C

SamplID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		0.005		: 000D	0.0028	0	0	-100	100	08/21/2023

Batch P((Dp86 SA, 1BMEI ET LYS Units, I C

SamplID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		0.005		0043	0.0500	0	98.0	90	110	08/21/2023

Batch P((Dp86 SA, 1BMEI ET) S Units, I C

SamplID: 23071810-028FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		5	S	D8	50.00	0	117.2	85	115	08/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3066 5A, A1 BM

Batch) aamp86 SET LAYLI C P S(		Units DOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Phenols		5	S	6e	50.00	0	134.2	58.61	13.51	08/21/2023

Batch) aamp86 SET LAYLI C P S		Units DOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Phenols		5	S	86	50.00	0	172.8	85	115	08/21/2023

Batch) aamp86 SET LAYLI C P S(		Units DOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Phenols		5	R	43	50.00	0	97.8	86.41	55.44	08/21/2023

Batch) aam40e SET LAYLI C P : Bg		Units TOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Phenols		0.005		/ 020m	0.0028	0	0	-100	100	08/23/2023

Batch) aam40e SET LAYLI C B. S		Units TOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Phenols		0.005		02048	0.0500	0	97.0	90	110	08/23/2023

SW-846 3py4 5 SS, B9K(1

Batch) aa436a SET LAYLI C P S		Units TOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Fluoride		0.10		p210	2.000	0.3860	105.8	75	125	08/14/2023

Batch) aa436a SET LAYLI C P S(		Units TOB		RPD Limit ym						Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride		0.10		p244	2.000	0.3860	102.8	2.502	2.39	08/14/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3py4 5 7SS, B9K(M

Batch) aa436a SET LAYLI C P S		Units T OVB									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p2y	2.000	0.3320	98.9	75	125	08/14/2023	

Batch) aa436a SET LAYLI C P S(Units T OVB		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p2p3	2.000	0.3320	97.7	2.310	1.04	08/14/2023	

Batch) aan0p8 SET LAYLI C P S		Units T OVB									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p2y8	2.000	0.2160	98.0	75	125	08/15/2023	

Batch) aan0p8 SET LAYLI C P S(Units T OVB		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p2ym	2.000	0.2160	96.9	2.175	0.97	08/15/2023	

Batch) aan0p8 SET LAYLI C P S		Units T OVB									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p2yp	2.000	0.2560	93.0	75	125	08/15/2023	

Batch) aan0p8 SET LAYLI C P S(Units T OVB		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p2ya	2.000	0.2560	93.6	2.117	0.52	08/15/2023	

Batch) aamy0p SET LAYLI C P S		Units T OVB									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p2y	2.000	0.4790	106.4	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(Units T OVB		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p2ne	2.000	0.4790	104.4	2.607	1.51	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3py4 5 7SS, B9K(M

Batch) aamy0p SET LAYLI C P S		Units T O/B									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p21a	2.000	0.3570	103.8	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(Units T O/B		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p21y	2.000	0.3570	102.4	2.434	1.16	08/16/2023	

Batch) aamy0p SET LAYLI C P S		Units T O/B									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p218	2.000	0.3380	102.2	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(Units T O/B		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p218	2.000	0.3380	102.0	2.381	0.13	08/16/2023	

Batch) aamy0p SET LAYLI C P S		Units T O/B									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		y23e	2.000	0	98.4	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(Units T O/B		RPD Limit ym							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		p200	2.000	0	100.2	1.968	1.81	08/16/2023	

SW-846 3py4 5A, A1 BM

Batch) aa436a SET LAYLI C P : Bg		Units T O/B									Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		/ 020	0.0500	0	0	-100	100	08/14/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3py4 5A, A1 BM

Batch) aa436a SET LAYLI C B S		Units T O/B									Date
Analyses											Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		02e	1.000	0	97.0	90	110		08/14/2023

Batch) aa436a SET LAYLI C P S		Units T O/B									Date
Analyses											Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p28	2.000	0.6470	101.6	75	125		08/14/2023

Batch) aa436a SET LAYLI C P S(Units T O/B									RPD Limit ym	Date
Analyses											Analyzed	
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Fluoride		0.10		p28	2.000	0.6470	101.6	2.678	0.04		08/14/2023	

Batch) aa436a SET LAYLI C P S		Units T O/B									Date
Analyses											Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		p2p	2.000	0.5610	118.0	75	125		08/14/2023

Batch) aa436a SET LAYLI C P S(Units T O/B									RPD Limit ym	Date
Analyses											Analyzed	
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Fluoride		0.10		p26	2.000	0.5610	109.8	2.921	5.78		08/14/2023	

Batch) aan0p8 SET LAYLI C P : Bg		Units T O/B									Date
Analyses											Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		/ 020	0.0500	0	0	-100	100		08/15/2023

Batch) aan0p8 SET LAYLI C B S		Units T O/B									Date
Analyses											Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		024	1.000	0	94.2	90	110		08/15/2023

Batch) aamy0p SET LAYLI C P : Bg		Units T O/B									Date
Analyses											Analyzed
	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		/ 020	0.0500	0	0	-100	100		08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3py4 5A, A1 BM

Batch) aamy0p SET LAYLI C B S		Units T O/B									
SampleID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		y20	1.000	0	99.6	90	110	08/16/2023	

Batch) aamy0p SET LAYLI C P S		Units T O/B									
SampleID: 23071810-034AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		p24m	2.000	0.3700	104.0	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(		Units T O/B		RPD Limit ym							
SampleID: 23071810-034AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		p246	2.000	0.3700	104.8	2.451	0.57	08/16/2023	

Batch) aamy0p SET LAYLI C P S		Units T O/B									
SampleID: 23071810-043AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		p2p3	2.000	0.3240	98.2	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(		Units T O/B		RPD Limit ym							
SampleID: 23071810-043AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		p2ap	2.000	0.3240	99.6	2.289	1.13	08/16/2023	

Batch) aamy0p SET LAYLI C P S		Units T O/B									
SampleID: 23071810-061AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		p210	2.000	0.4880	100.8	75	125	08/16/2023	

Batch) aamy0p SET LAYLI C P S(		Units T O/B		RPD Limit ym							
SampleID: 23071810-061AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		p21m	2.000	0.4880	103.1	2.505	1.78	08/16/2023	

Batch) aamy0p SET LAYLI C P S		Units T O/B									
SampleID: 23071810-075AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		y23	2.000	0.1940	89.9	75	125	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3054 A 1, BME

Batch) aan5p0		STL Y, I YCP (SD		Units L OM		RPD Limit 5m				
SampleID: 23071810-075AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		0ypm	2.000	0.1940	92.8	1.992	2.92	08/16/2023

Batch) aan5p0		STL Y, I YCP (S		Units L OM		RPD Limit 5m				
SampleID: 23071810-095AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		0ya6	2.000	0.3380	101.2	75	125	08/16/2023

Batch) aan5p0		STL Y, I YCP (SD		Units L OM		RPD Limit 5m				
SampleID: 23071810-095AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		0y40	2.000	0.3380	104.2	2.361	2.51	08/16/2023

Batch) aan5p0		STL Y, I YCP (S		Units L OM		RPD Limit 5m				
SampleID: 23071810-110AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		0yap	2.000	0.3160	99.4	75	125	08/16/2023

Batch) aan5p0		STL Y, I YCP (SD		Units L OM		RPD Limit 5m				
SampleID: 23071810-110AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		0y0e	2.000	0.3160	97.8	2.304	1.44	08/16/2023

SW-846 30n5 AD:SS1 Mg/ DE

Batch) aan00a		STL Y, I YCP (S		Units L OM		RPD Limit 5m				
SampleID: 23071810-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		0ep	200.0	87.24	91.4	85	115	08/18/2023

Batch) aan00a		STL Y, I YCP (SD		Units L OM		RPD Limit 5m				
SampleID: 23071810-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		068	200.0	87.24	90.6	270.0	0.61	08/18/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30m5 AD:SS1 Mg/ DE

Batch) aanam4		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4	E	n5	20.00	33.70	85.7	85	115		08/21/2023

Batch) aanam4		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-007BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		4	E	n5	20.00	33.70	85.5	50.83	0.06		08/21/2023

Batch) aanam4		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-015BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		40		00m	200.0	45.35	89.7	85	115		08/21/2023

Batch) aanam4		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-015BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		40		004	200.0	45.35	89.5	224.7	0.12		08/21/2023

Batch) aanam4		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-022BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		0a	20.00	4.140	92.3	85	115		08/21/2023

Batch) aanam4		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-022BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		4		0a	20.00	4.140	92.5	22.60	0.18		08/21/2023

Batch) aanam4		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-037BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		40		086	200.0	116.1	85.1	85	115		08/21/2023

Batch) aanam4		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-037BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		40		086	200.0	116.1	85.0	286.3	0.04		08/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30m5 AD:SS1 Mg/ DE

Batch) aam4e3		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-053BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		8		6m	40.00	28.74	91.6	85	115		08/23/2023

Batch) aam4e3		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-053BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		8		66	40.00	28.74	94.4	65.37	1.71		08/23/2023

Batch) aam4e3		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-069BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		8		ne	40.00	21.57	88.1	85	115		08/23/2023

Batch) aam4e3		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-069BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		8		ne	40.00	21.57	89.1	56.82	0.68		08/23/2023

Batch) aam4e3		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-101BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		40		0ap	200.0	41.06	94.7	85	115		08/24/2023

Batch) aam4e3		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-101BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		40		003	200.0	41.06	94.0	230.4	0.55		08/24/2023

Batch) aane03		STL Y, I YCP (S		Units L OM							Date
SampleID: 23071810-062BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		0p	20.00	0.9900	94.8	85	115		08/29/2023

Batch) aane03		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date
SampleID: 23071810-062BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Chloride		4		0p	20.00	0.9900	96.0	19.95	1.20		08/29/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30m5 AD:SS1 Mg/ DE

Batch) aane8p		STL Y, I YCP (S		Units L OM							Date Analyzed
SampID: 23071810-094BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		400		ap0p	2000	1271	87.5	85	115	08/30/2023	

Batch) aane8p		STL Y, I YCP (SD		Units L OM		RPD Limit 5m					Date Analyzed
SampID: 23071810-094BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride		400		ap8p	2000	1271	90.4	3020	1.89	08/30/2023	

SW-846 30m5 A 1, BME

Batch) aan00a		STL Y, I YCP (2M		Units L OM							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		74	0.5000	0	0	-100	100	08/17/2023	

Batch) aan00a		STL Y, I YCP MB S		Units L OM							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		0p	20.00	0	100.8	90	110	08/17/2023	

Batch) aanan4		STL Y, I YCP (2M		Units L OM							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		74	0.5000	0	0	-100	100	08/21/2023	

Batch) aanan4		STL Y, I YCP MB S		Units L OM							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		0p	20.00	0	98.6	90	110	08/21/2023	

Batch) aan4e3		STL Y, I YCP (2M		Units L OM							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		74	0.5000	0	0	-100	100	08/23/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 30m5 A 1, BME

Batch) aane3		STL Y, I YCP		MB S		Units L OM					Date
SampleID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		Op	20.00	0	101.8	90	110		08/23/2023

Batch) aane3		STL Y, I YCP		(S		Units L OM					Date
SampleID: 23071810-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		8		66	40.00	30.93	86.6	85	115		08/24/2023

Batch) aane3		STL Y, I YCP		(SD		Units L OM		RPD Limit 5m			
SampleID: 23071810-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Date
Chloride		8		6e	40.00	30.93	90.3	65.58	2.23		08/24/2023

Batch) aane03		STL Y, I YCP		(2M		Units L OM					Date
SampleID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		7 4	0.5000	0	0	-100	100		08/29/2023

Batch) aane03		STL Y, I YCP		MB S		Units L OM					Date
SampleID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4		Op	20.00	0	100.6	90	110		08/29/2023

Batch) aane03		STL Y, I YCP		(S		Units L OM					Date
SampleID: 23071810-017AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		40		0ep	200.0	81.59	94.1	85	115		08/29/2023

Batch) aane03		STL Y, I YCP		(SD		Units L OM		RPD Limit 5m			
SampleID: 23071810-017AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Date
Chloride		40		068	200.0	81.59	93.0	269.8	0.81		08/29/2023

Batch) aane03		STL Y, I YCP		(S		Units L OM					Date
SampleID: 23071810-031AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Chloride		4	E	65	20.00	42.33	93.0	85	115		08/29/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 305A,1B1MET

Batch	Sample	SLY	IC	P	DSO	Units	Y	V	E	RPD Limit	A5	Date Analyzed
SampleID: 23071810-031AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		4	E	6y	20.00	42.33	89.3	60.92	1.21	08/29/2023		

Batch	Sample	SLY	IC	P	DeE	Units	Y	V	E	Low Limit	High Limit	Date Analyzed
SampleID: ICB/MBLK												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		4		g 4	0.5000	0	0	-100	100	08/30/2023		

Batch	Sample	SLY	IC	P	E/S	Units	Y	V	E	Low Limit	High Limit	Date Analyzed
SampleID: ICV/LCS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		4		0y	20.00	0	99.7	90	110	08/30/2023		

Batch	Sample	SLY	IC	P	DS	Units	Y	V	E	Low Limit	High Limit	Date Analyzed
SampleID: 23071810-043AMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		4		03	20.00	11.31	87.8	85	115	08/30/2023		

Batch	Sample	SLY	IC	P	DSO	Units	Y	V	E	RPD Limit	A5	Date Analyzed
SampleID: 23071810-043AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		4		03	20.00	11.31	87.8	28.87	0.00	08/30/2023		

Batch	Sample	SLY	IC	P	DS	Units	Y	V	E	Low Limit	High Limit	Date Analyzed
SampleID: 23071810-101AMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		20		A4y	100.0	45.31	94.3	85	115	08/30/2023		

Batch	Sample	SLY	IC	P	DSO	Units	Y	V	E	RPD Limit	A5	Date Analyzed
SampleID: 23071810-101AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		20		A40	100.0	45.31	96.9	139.6	1.89	08/30/2023		

Batch	Sample	SLY	IC	P	DeE	Units	Y	V	E	Low Limit	High Limit	Date Analyzed
SampleID: ICB/MBLK												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		4		g 4	0.5000	0	0	-100	100	09/01/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 305A,1B1MET

Batch am53n0		SLYI 1Cl P(E/ S	Units Y V)E								
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		0y	20.00	0	102.0	90	110	09/01/2023	

Batch am6yn6		SLYI 1Cl P(DeE:	Units Y V)E								
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		g 4	0.5000	0	0	-100	100	09/06/2023	

Batch am6yn6		SLYI 1Cl P(E/ S	Units Y V)E								
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		0A	20.00	0	103.2	90	110	09/06/2023	

Batch am6A44		SLYI 1Cl P(DeE:	Units Y V)E								
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		g 4	0.5000	0	0	-100	100	09/08/2023	

Batch am6A44		SLYI 1Cl P(DeE:	Units Y V)E								
SampID: MBLK-211677											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride	*	4		g 4	0.5000	0	0	-100	100	09/08/2023	

Batch am6A44		SLYI 1Cl P(E/ S	Units Y V)E								
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		A3	20.00	0	95.6	90	110	09/08/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 myy5M26yAye 2D. 1MES e7 9 K, O9SSBE<. OT

Batch 0Ayp84 SLYI 1Cl P(DeE: Units Y V)E

SampleID: MBLK-210784

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		g y y05y	0.0127	0	0	-100	100	08/14/2023
Antimony		0.0500		g y y5yy	0.0068	0	0	-100	100	08/14/2023
Arsenic		0.0250		g y y05y	0.0087	0	0	-100	100	08/14/2023
Barium		0.0025		g y yy05	0.0007	0	0	-100	100	08/14/2023
Beryllium		0.0005		g y yyy5	0.0002	0	0	-100	100	08/14/2023
Boron		0.0200		g y y0yy	0.0090	0	0	-100	100	08/14/2023
Cadmium		0.0020		g y yy0y	0.0005	0	0	-100	100	08/14/2023
Calcium		0.100		g y Ayy	0.0350	0	0	-100	100	08/14/2023
Chromium		0.0050		g y yy5y	0.0028	0	0	-100	100	08/14/2023
Cobalt		0.0050		g y yy5y	0.0020	0	0	-100	100	08/14/2023
Copper		0.0050		g y yy5y	0.0013	0	0	-100	100	08/14/2023
Iron		0.0400		g y y4yy	0.0200	0	0	-100	100	08/14/2023
Lead		0.0150		g y yA5y	0.0014	0	0	-100	100	08/14/2023
Magnesium		0.0500		g y y5yy	0.0055	0	0	-100	100	08/14/2023
Manganese		0.0070		g y ypyy	0.0025	0	0	-100	100	08/14/2023
Molybdenum		0.0100		g y yAyy	0.0037	0	0	-100	100	08/14/2023
Nickel		0.0050		g y yy5y	0.0016	0	0	-100	100	08/14/2023
Potassium		0.100		g y Ayy	0.0400	0	0	-100	100	08/14/2023
Selenium		0.0400		g y y4yy	0.0170	0	0	-100	100	08/14/2023
Silver		0.0070		g y ypyy	0.0027	0	0	-100	100	08/14/2023
Sodium		0.0500		g y y5yy	0.0180	0	0	-100	100	08/14/2023
Thallium		0.0500		g y y5yy	0.0111	0	0	-100	100	08/14/2023
Vanadium		0.0100		g y yAyy	0.0009	0	0	-100	100	08/14/2023
Zinc		0.0100		g y yAyy	0.0050	0	0	-100	100	08/14/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 myy5M26yAye 2D. 1MES e7 9 K, O9SSBE<. OT

Batch 0Ayp84 SLYI 1CI P(E/ S Units Y V)E

SampleID: LCS-210784

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		Ap4	2.000	0	87.2	85	115	08/14/2023
Antimony		0.0500		y 46m	0.5000	0	92.5	85	115	08/14/2023
Arsenic		0.0250		y 4p3	0.5000	0	95.8	85	115	08/14/2023
Barium		0.0025		A 88	2.000	0	94.0	85	115	08/14/2023
Beryllium		0.0005		y y443	0.0500	0	89.8	85	115	08/14/2023
Boron		0.0200		y 45y	0.5000	0	89.9	85	115	08/14/2023
Cadmium		0.0020		y y5yA	0.0500	0	100.2	85	115	08/14/2023
Calcium		0.100		0 m4	2.500	0	93.7	85	115	08/14/2023
Chromium		0.0050		y A80	0.2000	0	91.0	85	115	08/14/2023
Cobalt		0.0050		y 443	0.5000	0	89.8	85	115	08/14/2023
Copper		0.0050		y 0ny	0.2500	0	92.1	85	115	08/14/2023
Iron		0.0400		A 85	2.000	0	92.7	85	115	08/14/2023
Lead		0.0150		y 453	0.5000	0	91.7	85	115	08/14/2023
Magnesium		0.0500		0 A6	2.500	0	86.3	85	115	08/14/2023
Manganese		0.0070		y 4n6	0.5000	0	87.3	85	115	08/14/2023
Molybdenum		0.0100		y 450	0.5000	0	90.4	85	115	08/14/2023
Nickel		0.0050		y 466	0.5000	0	93.2	85	115	08/14/2023
Potassium		0.100		0 5m	2.500	0	101.3	85	115	08/14/2023
Selenium		0.0400		y 44m	0.5000	0	88.6	85	115	08/14/2023
Silver		0.0070		y y485	0.0500	0	97.0	85	115	08/14/2023
Sodium		0.0500		0 n5	2.500	0	94.1	85	115	08/14/2023
Thallium		0.0500		y 00y	0.2500	0	88.2	85	115	08/14/2023
Vanadium		0.0100		y 46m	0.5000	0	92.6	85	115	08/14/2023
Zinc		0.0100		y 46y	0.5000	0	92.0	85	115	08/14/2023

Batch 0Ayp84 SLYI 1CI P(DS Units Y V)E

SampleID: 23071810-002DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	pA 5	2.500	70.76	31.2	75	125	08/14/2023
Magnesium		0.0500	S	n0 4	2.500	30.84	61.9	75	125	08/14/2023
Potassium		0.100		0 3A	2.500	0.4298	99.3	75	125	08/14/2023
Sodium		0.0500	S	6m8	2.500	62.24	61.6	75	125	08/14/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 myy5M26yAye 2D. 1MES e7 9 K, O9SSBE<. OT

Batch	0Ayp84	SLYI 1Cl P(DSO	Units	Y VJE	RPD Limit					0y
SampID: 23071810-002DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	p0 m	2.500	70.76	61.2	71.54	1.04	08/14/2023	
Magnesium		0.0500	S	n0 p	2.500	30.84	72.4	32.39	0.81	08/14/2023	
Potassium		0.100		0 88	2.500	0.4298	98.0	2.912	1.09	08/14/2023	
Sodium		0.0500		64 0	2.500	62.24	78.0	63.78	0.64	08/14/2023	

Batch 0Ayp84 SLYI 1Cl P(DeE: Units Y VJE

SampID: MBLK-210814											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		g y y05y	0.0127	0	0	-100	100	08/15/2023	
Antimony		0.0500		g y y5yy	0.0068	0	0	-100	100	08/15/2023	
Arsenic		0.0250		g y y05y	0.0087	0	0	-100	100	08/15/2023	
Barium		0.0025		g y yy05	0.0007	0	0	-100	100	08/15/2023	
Beryllium		0.0005		g y yyy5	0.0002	0	0	-100	100	08/15/2023	
Boron		0.0200		g y y0yy	0.0090	0	0	-100	100	08/15/2023	
Cadmium		0.0020		g y yy0y	0.0005	0	0	-100	100	08/15/2023	
Calcium		0.100		g y Ayy	0.0350	0	0	-100	100	08/15/2023	
Chromium		0.0050		g y yy5y	0.0028	0	0	-100	100	08/15/2023	
Cobalt		0.0050		g y yy5y	0.0020	0	0	-100	100	08/15/2023	
Copper		0.0050		g y yy5y	0.0013	0	0	-100	100	08/15/2023	
Iron		0.0400		g y y4yy	0.0200	0	0	-100	100	08/15/2023	
Lead		0.0150		g y yA5y	0.0014	0	0	-100	100	08/15/2023	
Magnesium		0.0500		g y y5yy	0.0055	0	0	-100	100	08/15/2023	
Manganese		0.0070		g y ypyy	0.0025	0	0	-100	100	08/15/2023	
Molybdenum		0.0100		g y yAyy	0.0037	0	0	-100	100	08/15/2023	
Nickel		0.0050		g y yy5y	0.0016	0	0	-100	100	08/15/2023	
Potassium		0.100		g y Ayy	0.0400	0	0	-100	100	08/15/2023	
Selenium		0.0400		g y y4yy	0.0170	0	0	-100	100	08/15/2023	
Silver		0.0070		g y ypyy	0.0027	0	0	-100	100	08/15/2023	
Sodium		0.0500		g y y5yy	0.0180	0	0	-100	100	08/15/2023	
Thallium		0.0500		g y y5yy	0.0111	0	0	-100	100	08/15/2023	
Vanadium		0.0100		g y yAyy	0.0009	0	0	-100	100	08/15/2023	
Zinc		0.0100		g y yAyy	0.0050	0	0	-100	100	08/15/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210814 SampType: LCS Units mg/L
SampID: LCS-210814

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.79	2.000	0	89.3	85	115	08/15/2023
Antimony		0.0500		0.460	0.5000	0	91.9	85	115	08/15/2023
Arsenic		0.0250		0.495	0.5000	0	99.0	85	115	08/15/2023
Barium		0.0025		1.80	2.000	0	90.0	85	115	08/15/2023
Beryllium		0.0005		0.0459	0.0500	0	91.8	85	115	08/15/2023
Boron		0.0200		0.466	0.5000	0	93.3	85	115	08/15/2023
Cadmium		0.0020		0.0473	0.0500	0	94.6	85	115	08/15/2023
Calcium		0.100		2.38	2.500	0	95.2	85	115	08/15/2023
Chromium		0.0050		0.182	0.2000	0	90.8	85	115	08/15/2023
Cobalt		0.0050		0.464	0.5000	0	92.8	85	115	08/15/2023
Copper		0.0050		0.231	0.2500	0	92.3	85	115	08/15/2023
Iron		0.0400		1.81	2.000	0	90.6	85	115	08/15/2023
Lead		0.0150		0.463	0.5000	0	92.6	85	115	08/15/2023
Magnesium		0.0500		2.20	2.500	0	87.9	85	115	08/15/2023
Manganese		0.0070		0.451	0.5000	0	90.2	85	115	08/15/2023
Molybdenum		0.0100		0.445	0.5000	0	89.0	85	115	08/15/2023
Nickel		0.0050		0.470	0.5000	0	94.0	85	115	08/15/2023
Potassium		0.100		2.53	2.500	0	101.3	85	115	08/15/2023
Selenium		0.0400		0.474	0.5000	0	94.9	85	115	08/15/2023
Silver		0.0070		0.0440	0.0500	0	88.0	85	115	08/15/2023
Sodium		0.0500		2.27	2.500	0	90.9	85	115	08/15/2023
Thallium		0.0500		0.244	0.2500	0	97.4	85	115	08/15/2023
Vanadium		0.0100		0.450	0.5000	0	90.1	85	115	08/15/2023
Zinc		0.0100		0.468	0.5000	0	93.7	85	115	08/15/2023

Batch 210814 SampType: MS Units mg/L
SampID: 23071810-004DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	74.5	5.000	71.35	63.8	75	125	08/15/2023
Magnesium		0.0500	S	35.1	5.000	31.51	72.5	75	125	08/15/2023
Potassium		0.100		6.18	5.000	1.150	100.5	75	125	08/15/2023
Sodium		0.0500	S	53.4	5.000	51.02	47.4	75	125	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210814		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-004DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	74.6	5.000	71.35	64.8	74.54	0.07	08/15/2023	
Magnesium		0.0500	S	35.0	5.000	31.51	70.1	35.14	0.35	08/15/2023	
Potassium		0.100		5.77	5.000	1.150	92.3	6.177	6.87	08/15/2023	
Sodium		0.0500	S	53.1	5.000	51.02	42.2	53.39	0.49	08/15/2023	

Batch 210814		SampType: MS		Units mg/L				RPD Limit 20		Date Analyzed
SampID: 23071810-016CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		82.7	2.500	80.23	99.2	75	125	08/15/2023
Magnesium		0.0500		39.0	2.500	36.68	94.1	75	125	08/15/2023
Potassium		0.100		2.95	2.500	0.3913	102.2	75	125	08/15/2023
Sodium		0.0500	S	54.3	2.500	52.86	57.2	75	125	08/15/2023

Batch 210814		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-016CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100		83.1	2.500	80.23	113.2	82.71	0.42	08/15/2023	
Magnesium		0.0500		38.9	2.500	36.68	88.5	39.03	0.36	08/15/2023	
Potassium		0.100		2.91	2.500	0.3913	100.9	2.946	1.15	08/15/2023	
Sodium		0.0500	S	54.1	2.500	52.86	48.0	54.29	0.42	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815 SampType: MBLK Units mg/L
SampID: MBLK-210815

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/15/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/15/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/15/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/15/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/15/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/15/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/15/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/15/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/15/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/15/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/15/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/15/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/15/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/15/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/15/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/15/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/15/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/15/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/15/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/15/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815 SampType: LCS Units mg/L
 SampID: LCS-210815

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.79	2.000	0	89.3	85	115	08/15/2023
Antimony		0.0500		0.468	0.5000	0	93.6	85	115	08/15/2023
Arsenic		0.0250		0.495	0.5000	0	99.0	85	115	08/15/2023
Barium		0.0025		1.79	2.000	0	89.3	85	115	08/15/2023
Beryllium		0.0005		0.0462	0.0500	0	92.4	85	115	08/15/2023
Boron		0.0200		0.468	0.5000	0	93.6	85	115	08/15/2023
Cadmium		0.0020		0.0487	0.0500	0	97.4	85	115	08/15/2023
Calcium		0.100		2.37	2.500	0	94.7	85	115	08/15/2023
Chromium		0.0050		0.183	0.2000	0	91.4	85	115	08/15/2023
Cobalt		0.0050		0.467	0.5000	0	93.3	85	115	08/15/2023
Copper		0.0050		0.229	0.2500	0	91.6	85	115	08/15/2023
Iron		0.0400		1.82	2.000	0	91.1	85	115	08/15/2023
Lead		0.0150		0.472	0.5000	0	94.3	85	115	08/15/2023
Magnesium		0.0500		2.22	2.500	0	89.0	85	115	08/15/2023
Manganese		0.0070		0.452	0.5000	0	90.5	85	115	08/15/2023
Molybdenum		0.0100		0.449	0.5000	0	89.9	85	115	08/15/2023
Nickel		0.0050		0.478	0.5000	0	95.7	85	115	08/15/2023
Potassium		0.100		2.50	2.500	0	99.9	85	115	08/15/2023
Selenium		0.0400		0.480	0.5000	0	95.9	85	115	08/15/2023
Silicon	*	0.0500		0.443	0.5000	0	88.6	85	115	08/15/2023
Silver		0.0070		0.0437	0.0500	0	87.4	85	115	08/15/2023
Sodium		0.0500		2.27	2.500	0	90.7	85	115	08/15/2023
Thallium		0.0500		0.236	0.2500	0	94.6	85	115	08/15/2023
Vanadium		0.0100		0.453	0.5000	0	90.6	85	115	08/15/2023
Zinc		0.0100		0.473	0.5000	0	94.7	85	115	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-034DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.80	2.000	0	90.0	75	125	08/15/2023	
Arsenic		0.0250		0.512	0.5000	0	102.5	75	125	08/15/2023	
Barium		0.0025		1.88	2.000	0.07570	90.1	75	125	08/15/2023	
Beryllium		0.0005		0.0469	0.0500	0	93.8	75	125	08/15/2023	
Boron		0.0200		0.471	0.5000	0	94.2	75	125	08/15/2023	
Cadmium		0.0020		0.0472	0.0500	0	94.4	75	125	08/15/2023	
Chromium		0.0050		0.183	0.2000	0	91.7	75	125	08/15/2023	
Copper		0.0050		0.234	0.2500	0	93.6	75	125	08/15/2023	
Iron		0.0400		1.81	2.000	0	90.3	75	125	08/15/2023	
Lead		0.0150		0.460	0.5000	0	92.1	75	125	08/15/2023	
Manganese		0.0070		0.490	0.5000	0.03660	90.7	75	125	08/15/2023	
Molybdenum		0.0100		0.458	0.5000	0	91.6	75	125	08/15/2023	
Nickel		0.0050		0.478	0.5000	0	95.5	75	125	08/15/2023	
Silver		0.0070		0.0444	0.0500	0	88.8	75	125	08/15/2023	
Zinc		0.0100		0.480	0.5000	0	96.0	75	125	08/15/2023	

Batch 210815		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-034DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		0.0250		1.79	2.000	0	89.4	1.799	0.64	08/15/2023		
Arsenic		0.0250		0.511	0.5000	0	102.3	0.5125	0.23	08/15/2023		
Barium		0.0025		1.87	2.000	0.07570	89.5	1.878	0.60	08/15/2023		
Beryllium		0.0005		0.0467	0.0500	0	93.4	0.04690	0.43	08/15/2023		
Boron		0.0200		0.470	0.5000	0	94.0	0.4711	0.21	08/15/2023		
Cadmium		0.0020		0.0472	0.0500	0	94.4	0.04720	0.00	08/15/2023		
Chromium		0.0050		0.183	0.2000	0	91.7	0.1834	0.05	08/15/2023		
Copper		0.0050		0.235	0.2500	0	94.0	0.2339	0.47	08/15/2023		
Iron		0.0400		1.80	2.000	0	90.2	1.806	0.08	08/15/2023		
Lead		0.0150		0.461	0.5000	0	92.2	0.4603	0.11	08/15/2023		
Manganese		0.0070		0.490	0.5000	0.03660	90.7	0.4901	0.04	08/15/2023		
Molybdenum		0.0100		0.458	0.5000	0	91.5	0.4580	0.07	08/15/2023		
Nickel		0.0050		0.476	0.5000	0	95.3	0.4775	0.25	08/15/2023		
Silver		0.0070		0.0445	0.0500	0	89.0	0.04440	0.22	08/15/2023		
Zinc		0.0100		0.480	0.5000	0	95.9	0.4802	0.15	08/15/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815		SampType: MS		Units mg/L							
SampID: 23071810-036DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.83	2.000	0	91.6	75	125	08/15/2023	
Arsenic		0.0250		0.514	0.5000	0	102.8	75	125	08/15/2023	
Barium		0.0025		1.86	2.000	0.05010	90.3	75	125	08/15/2023	
Beryllium		0.0005		0.0461	0.0500	0	92.2	75	125	08/15/2023	
Boron		0.0200		1.47	0.5000	1.000	94.4	75	125	08/15/2023	
Cadmium		0.0020		0.0473	0.0500	0	94.6	75	125	08/15/2023	
Chromium		0.0050		0.182	0.2000	0	90.8	75	125	08/15/2023	
Copper		0.0050		0.234	0.2500	0	93.5	75	125	08/15/2023	
Iron		0.0400		7.54	2.000	5.680	93.0	75	125	08/15/2023	
Lead		0.0150		0.452	0.5000	0	90.5	75	125	08/15/2023	
Manganese		0.0070		0.976	0.5000	0.5338	88.4	75	125	08/15/2023	
Molybdenum		0.0100		0.458	0.5000	0	91.6	75	125	08/15/2023	
Nickel		0.0050		0.470	0.5000	0	94.0	75	125	08/15/2023	
Silver		0.0070		0.0458	0.0500	0	91.6	75	125	08/15/2023	
Zinc		0.0100		0.474	0.5000	0	94.8	75	125	08/15/2023	

Batch 210815		SampType: MSD		Units mg/L							
SampID: 23071810-036DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		0.0250		1.83	2.000	0	91.7	1.832	0.08	08/15/2023	
Arsenic		0.0250		0.519	0.5000	0	103.8	0.5140	0.93	08/15/2023	
Barium		0.0025		1.86	2.000	0.05010	90.7	1.856	0.42	08/15/2023	
Beryllium		0.0005		0.0465	0.0500	0	93.0	0.04610	0.86	08/15/2023	
Boron		0.0200		1.48	0.5000	1.000	95.8	1.472	0.48	08/15/2023	
Cadmium		0.0020		0.0469	0.0500	0	93.8	0.04730	0.85	08/15/2023	
Chromium		0.0050		0.182	0.2000	0	91.2	0.1816	0.44	08/15/2023	
Copper		0.0050		0.237	0.2500	0	94.7	0.2337	1.28	08/15/2023	
Iron		0.0400		7.59	2.000	5.680	95.5	7.540	0.66	08/15/2023	
Lead		0.0150		0.456	0.5000	0	91.1	0.4525	0.68	08/15/2023	
Manganese		0.0070		0.983	0.5000	0.5338	89.8	0.9760	0.71	08/15/2023	
Molybdenum		0.0100		0.457	0.5000	0	91.4	0.4579	0.17	08/15/2023	
Nickel		0.0050		0.473	0.5000	0	94.6	0.4700	0.68	08/15/2023	
Silver		0.0070		0.0466	0.0500	0	93.2	0.04580	1.73	08/15/2023	
Zinc		0.0100		0.478	0.5000	0	95.6	0.4741	0.84	08/15/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210825 SampType: MBLK Units mg/L

SampID: MBLK-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210825 SampType: LCS Units mg/L

SampID: LCS-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.77	2.000	0	88.3	85	115	08/16/2023
Antimony		0.0500		0.448	0.5000	0	89.7	85	115	08/16/2023
Arsenic		0.0250		0.443	0.5000	0	88.5	85	115	08/16/2023
Barium		0.0025		1.82	2.000	0	91.2	85	115	08/16/2023
Beryllium		0.0005		0.0433	0.0500	0	86.6	85	115	08/16/2023
Boron		0.0200		0.436	0.5000	0	87.2	85	115	08/16/2023
Cadmium		0.0020		0.0434	0.0500	0	86.8	85	115	08/16/2023
Calcium		0.100		2.38	2.500	0	95.3	85	115	08/16/2023
Chromium		0.0050		0.175	0.2000	0	87.5	85	115	08/16/2023
Cobalt		0.0050		0.441	0.5000	0	88.2	85	115	08/16/2023
Copper		0.0050		0.230	0.2500	0	92.0	85	115	08/16/2023
Iron		0.0400		1.74	2.000	0	87.2	85	115	08/16/2023
Lead		0.0150		0.430	0.5000	0	86.0	85	115	08/16/2023
Magnesium		0.0500		2.30	2.500	0	92.0	85	115	08/17/2023
Manganese		0.0070		0.435	0.5000	0	87.0	85	115	08/16/2023
Molybdenum		0.0100		0.428	0.5000	0	85.7	85	115	08/16/2023
Nickel		0.0050		0.437	0.5000	0	87.3	85	115	08/16/2023
Potassium		0.100		2.50	2.500	0	100.1	85	115	08/16/2023
Selenium		0.0400		0.425	0.5000	0	85.0	85	115	08/16/2023
Silicon	*	0.0500		0.451	0.5000	0	90.2	85	115	08/16/2023
Silver		0.0070		0.0464	0.0500	0	92.8	85	115	08/16/2023
Sodium		0.0500		2.28	2.500	0	91.1	85	115	08/16/2023
Thallium		0.0500		0.220	0.2500	0	88.0	85	115	08/16/2023
Vanadium		0.0100		0.439	0.5000	0	87.8	85	115	08/16/2023
Zinc		0.0100		0.438	0.5000	0	87.6	85	115	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210825 SampType: MS Units mg/L

SamplD: 23071810-082DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.80	2.000	0.02590	88.8	75	125	08/16/2023
Arsenic		0.0250		0.478	0.5000	0	95.7	75	125	08/16/2023
Boron		0.0200		0.569	0.5000	0.1270	88.3	75	125	08/16/2023
Copper		0.0050		0.240	0.2500	0	95.9	75	125	08/16/2023
Iron		0.0400		2.73	2.000	0.8447	94.3	75	125	08/16/2023
Lead		0.0150		0.432	0.5000	0	86.3	75	125	08/16/2023
Manganese		0.0070		3.36	0.5000	2.966	78.6	75	125	08/16/2023
Nickel		0.0050		0.436	0.5000	0	87.1	75	125	08/16/2023
Silver		0.0070		0.0502	0.0500	0.003200	94.0	75	125	08/16/2023
Zinc		0.0100		0.452	0.5000	0	90.3	75	125	08/16/2023

Batch 210825 SampType: MSD Units mg/L

RPD Limit 20

SamplD: 23071810-082DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.81	2.000	0.02590	89.1	1.802	0.38	08/16/2023
Arsenic		0.0250		0.471	0.5000	0	94.1	0.4783	1.60	08/16/2023
Boron		0.0200		0.567	0.5000	0.1270	88.0	0.5686	0.25	08/16/2023
Copper		0.0050		0.237	0.2500	0	94.9	0.2398	1.09	08/16/2023
Iron		0.0400		2.72	2.000	0.8447	93.8	2.730	0.37	08/16/2023
Lead		0.0150		0.429	0.5000	0	85.9	0.4316	0.51	08/16/2023
Manganese		0.0070		3.36	0.5000	2.966	78.5	3.359	0.01	08/16/2023
Nickel		0.0050		0.435	0.5000	0	87.1	0.4356	0.07	08/16/2023
Silver		0.0070		0.0497	0.0500	0.003200	93.0	0.05020	1.00	08/16/2023
Zinc		0.0100		0.446	0.5000	0	89.2	0.4517	1.27	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902 SampType: MBLK Units mg/L
SampID: MBLK-210902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902 SampType: LCS Units mg/L
 SampID: LCS-210902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.78	2.000	0	89.2	85	115	08/16/2023
Antimony		0.0500		0.451	0.5000	0	90.2	85	115	08/16/2023
Arsenic		0.0250		0.450	0.5000	0	90.0	85	115	08/16/2023
Barium		0.0025		1.84	2.000	0	92.1	85	115	08/16/2023
Beryllium		0.0005		0.0438	0.0500	0	87.6	85	115	08/16/2023
Boron		0.0200		0.449	0.5000	0	89.9	85	115	08/16/2023
Cadmium		0.0020		0.0499	0.0500	0	99.8	85	115	08/17/2023
Calcium		0.100		2.40	2.500	0	96.0	85	115	08/16/2023
Chromium		0.0050		0.180	0.2000	0	90.1	85	115	08/16/2023
Cobalt		0.0050		0.462	0.5000	0	92.4	85	115	08/16/2023
Copper		0.0050		0.239	0.2500	0	95.7	85	115	08/16/2023
Iron		0.0400		1.78	2.000	0	88.8	85	115	08/16/2023
Lead		0.0150		0.440	0.5000	0	87.9	85	115	08/16/2023
Magnesium		0.0500		2.29	2.500	0	91.5	85	115	08/17/2023
Manganese		0.0070		0.454	0.5000	0	90.8	85	115	08/16/2023
Molybdenum		0.0100		0.441	0.5000	0	88.2	85	115	08/16/2023
Nickel		0.0050		0.443	0.5000	0	88.6	85	115	08/16/2023
Potassium		0.100		2.48	2.500	0	99.1	85	115	08/16/2023
Selenium		0.0400		0.432	0.5000	0	86.3	85	115	08/16/2023
Silicon	*	0.0500		0.447	0.5000	0	89.3	85	115	08/16/2023
Silver		0.0070		0.0460	0.0500	0	92.0	85	115	08/16/2023
Sodium		0.0500		2.28	2.500	0	91.2	85	115	08/16/2023
Thallium		0.0500		0.223	0.2500	0	89.1	85	115	08/16/2023
Vanadium		0.0100		0.445	0.5000	0	89.0	85	115	08/16/2023
Zinc		0.0100		0.442	0.5000	0	88.4	85	115	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-028DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.79	2.000	0.02120	88.6	75	125	08/16/2023	
Arsenic		0.0250		0.456	0.5000	0	91.2	75	125	08/16/2023	
Barium		0.0025		1.91	2.000	0.09310	91.1	75	125	08/16/2023	
Beryllium		0.0005		0.0446	0.0500	0	89.2	75	125	08/16/2023	
Boron		0.0200		0.446	0.5000	0	89.1	75	125	08/16/2023	
Cadmium		0.0020		0.0415	0.0500	0	83.0	75	125	08/16/2023	
Chromium		0.0050		0.178	0.2000	0	89.2	75	125	08/16/2023	
Copper		0.0050		0.239	0.2500	0	95.5	75	125	08/16/2023	
Iron		0.0400		1.77	2.000	0	88.6	75	125	08/16/2023	
Lead		0.0150		0.431	0.5000	0	86.1	75	125	08/16/2023	
Manganese		0.0070		0.458	0.5000	0.003900	90.8	75	125	08/16/2023	
Molybdenum		0.0100		0.442	0.5000	0	88.5	75	125	08/16/2023	
Nickel		0.0050		0.432	0.5000	0	86.4	75	125	08/16/2023	
Silver		0.0070		0.0473	0.0500	0	94.6	75	125	08/16/2023	
Zinc		0.0100		0.446	0.5000	0	89.3	75	125	08/16/2023	

Batch 210902		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-028DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		0.0250		1.80	2.000	0.02120	88.9	1.793	0.39	08/16/2023		
Arsenic		0.0250		0.462	0.5000	0	92.5	0.4561	1.39	08/16/2023		
Barium		0.0025		1.94	2.000	0.09310	92.2	1.914	1.19	08/16/2023		
Beryllium		0.0005		0.0443	0.0500	0	88.6	0.04460	0.67	08/16/2023		
Boron		0.0200		0.452	0.5000	0	90.3	0.4456	1.32	08/16/2023		
Cadmium		0.0020		0.0418	0.0500	0	83.6	0.04150	0.72	08/16/2023		
Chromium		0.0050		0.180	0.2000	0	90.1	0.1784	1.00	08/16/2023		
Copper		0.0050		0.242	0.2500	0	96.6	0.2388	1.17	08/16/2023		
Iron		0.0400		1.78	2.000	0	89.2	1.772	0.71	08/16/2023		
Lead		0.0150		0.434	0.5000	0	86.8	0.4307	0.74	08/16/2023		
Manganese		0.0070		0.458	0.5000	0.003900	90.9	0.4577	0.15	08/16/2023		
Molybdenum		0.0100		0.450	0.5000	0	90.0	0.4424	1.68	08/16/2023		
Nickel		0.0050		0.437	0.5000	0	87.4	0.4321	1.10	08/16/2023		
Silver		0.0070		0.0475	0.0500	0	95.0	0.04730	0.42	08/16/2023		
Zinc		0.0100		0.450	0.5000	0	89.9	0.4464	0.74	08/16/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902		SampType: MS		Units mg/L						
SampID: 23071810-030DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.81	2.000	0	90.5	75	125	08/16/2023
Arsenic		0.0250		0.465	0.5000	0	93.0	75	125	08/16/2023
Barium		0.0025		1.88	2.000	0.04450	91.6	75	125	08/16/2023
Beryllium		0.0005		0.0446	0.0500	0	89.2	75	125	08/16/2023
Boron		0.0200		0.446	0.5000	0	89.2	75	125	08/16/2023
Cadmium		0.0020		0.0413	0.0500	0	82.6	75	125	08/16/2023
Chromium		0.0050		0.180	0.2000	0	89.8	75	125	08/16/2023
Copper		0.0050		0.241	0.2500	0	96.6	75	125	08/16/2023
Iron		0.0400		1.78	2.000	0	89.1	75	125	08/16/2023
Lead		0.0150		0.428	0.5000	0	85.6	75	125	08/16/2023
Manganese		0.0070		0.459	0.5000	0	91.7	75	125	08/16/2023
Molybdenum		0.0100		0.446	0.5000	0	89.2	75	125	08/16/2023
Nickel		0.0050		0.435	0.5000	0	87.0	75	125	08/16/2023
Silver		0.0070		0.0480	0.0500	0	96.0	75	125	08/16/2023
Zinc		0.0100		0.450	0.5000	0	89.9	75	125	08/16/2023

Batch 210902		SampType: MSD		Units mg/L		RPD Limit 20				
SampID: 23071810-030DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.81	2.000	0	90.7	1.810	0.18	08/16/2023
Arsenic		0.0250		0.466	0.5000	0	93.3	0.4651	0.30	08/16/2023
Barium		0.0025		1.87	2.000	0.04450	91.3	1.877	0.33	08/16/2023
Beryllium		0.0005		0.0443	0.0500	0	88.6	0.04460	0.67	08/16/2023
Boron		0.0200		0.447	0.5000	0	89.4	0.4459	0.20	08/16/2023
Cadmium		0.0020		0.0410	0.0500	0	82.0	0.04130	0.73	08/16/2023
Chromium		0.0050		0.178	0.2000	0	89.2	0.1795	0.67	08/16/2023
Copper		0.0050		0.241	0.2500	0	96.5	0.2414	0.04	08/16/2023
Iron		0.0400		1.78	2.000	0	88.9	1.782	0.25	08/16/2023
Lead		0.0150		0.429	0.5000	0	85.8	0.4282	0.23	08/16/2023
Manganese		0.0070		0.458	0.5000	0	91.6	0.4586	0.17	08/16/2023
Molybdenum		0.0100		0.444	0.5000	0	88.9	0.4461	0.40	08/16/2023
Nickel		0.0050		0.434	0.5000	0	86.7	0.4349	0.32	08/16/2023
Silver		0.0070		0.0475	0.0500	0	95.0	0.04800	1.05	08/16/2023
Zinc		0.0100		0.450	0.5000	0	89.9	0.4495	0.04	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210928 SampType: MBLK Units mg/L
 SampID: MBLK-210928

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210928 SampType: LCS Units mg/L
SampID: LCS-210928

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.75	2.000	0	87.7	85	115	08/16/2023
Antimony		0.0500		0.437	0.5000	0	87.3	85	115	08/16/2023
Arsenic		0.0250		0.442	0.5000	0	88.5	85	115	08/16/2023
Barium		0.0025		1.83	2.000	0	91.6	85	115	08/16/2023
Beryllium		0.0005		0.0431	0.0500	0	86.2	85	115	08/16/2023
Boron		0.0200		0.432	0.5000	0	86.4	85	115	08/16/2023
Cadmium		0.0020		0.0440	0.0500	0	88.0	85	115	08/16/2023
Calcium		0.100		2.37	2.500	0	94.8	85	115	08/16/2023
Chromium		0.0050		0.174	0.2000	0	87.0	85	115	08/16/2023
Cobalt		0.0050		0.438	0.5000	0	87.7	85	115	08/16/2023
Copper		0.0050		0.231	0.2500	0	92.4	85	115	08/16/2023
Iron		0.0400		1.75	2.000	0	87.5	85	115	08/16/2023
Lead		0.0150		0.430	0.5000	0	86.0	85	115	08/16/2023
Magnesium		0.0500		2.33	2.500	0	93.4	85	115	08/17/2023
Manganese		0.0070		0.432	0.5000	0	86.5	85	115	08/16/2023
Molybdenum		0.0100		0.425	0.5000	0	85.0	85	115	08/16/2023
Nickel		0.0050		0.433	0.5000	0	86.5	85	115	08/16/2023
Potassium		0.100		2.50	2.500	0	100.0	85	115	08/16/2023
Silicon	*	0.0500		0.444	0.5000	0	88.8	85	115	08/16/2023
Silver		0.0070		0.0464	0.0500	0	92.8	85	115	08/16/2023
Sodium		0.0500		2.28	2.500	0	91.2	85	115	08/16/2023
Thallium		0.0500		0.213	0.2500	0	85.4	85	115	08/16/2023
Vanadium		0.0100		0.440	0.5000	0	87.9	85	115	08/16/2023
Zinc		0.0100		0.436	0.5000	0	87.3	85	115	08/16/2023

Batch 210928 SampType: MS Units mg/L
SampID: 23071810-094DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	434	2.500	440.1	-234.4	75	125	08/16/2023
Magnesium		0.0500	S	799	2.500	801.1	-93.1	75	125	08/16/2023
Potassium		2.00	S	106	2.500	105.6	20.4	75	125	08/17/2023
Silicon	*	0.0500		7.27	0.5000	6.876	79.2	75	125	08/16/2023
Sodium		0.0500	S	363	2.500	367.8	-210.0	75	125	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210928		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-094DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	435	2.500	440.1	-202.8	434.3	0.18	08/16/2023	
Magnesium		0.0500	S	803	2.500	801.1	69.2	798.7	0.51	08/16/2023	
Potassium		2.00	S	106	2.500	105.6	3.4	106.1	0.40	08/17/2023	
Silicon	*	0.0500		7.25	0.5000	6.876	75.1	7.272	0.28	08/16/2023	
Sodium		0.0500	S	364	2.500	367.8	-164.8	362.6	0.31	08/16/2023	

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210770		SampType: MBLK		Units mg/L							
SampID: MBLK-210770											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023	

Batch 210770 SampType: LCS Units mg/L

SampID: LCS-210770											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.66	2.500	0	106.4	85	115	08/15/2023	
Magnesium		0.0500		2.42	2.500	0	96.6	85	115	08/15/2023	
Potassium		0.100		2.79	2.500	0	111.7	85	115	08/15/2023	
Sodium		0.0500		2.61	2.500	0	104.6	85	115	08/15/2023	

Batch 210770 SampType: MS Units mg/L

SampID: 23071810-009CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	98.0	2.500	94.85	128.0	75	125	08/15/2023	
Magnesium		0.0500		44.6	2.500	41.82	112.9	75	125	08/15/2023	
Potassium		0.100		3.02	2.500	0.2669	110.3	75	125	08/15/2023	
Sodium		0.0500		55.2	2.500	52.11	122.8	75	125	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210770		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-009CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100		97.9	2.500	94.85	120.4	98.05	0.19	08/15/2023	
Magnesium		0.0500		44.6	2.500	41.82	111.7	44.64	0.07	08/15/2023	
Potassium		0.100		3.00	2.500	0.2669	109.4	3.024	0.75	08/15/2023	
Sodium		0.0500	S	55.3	2.500	52.11	127.2	55.18	0.20	08/15/2023	

Batch 210785		SampType: MBLK		Units mg/L				RPD Limit 20			Date Analyzed
SampID: MBLK-210785											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023	

Batch 210785		SampType: LCS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: LCS-210785											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.58	2.500	0	103.3	85	115	08/15/2023	
Magnesium		0.0500		2.33	2.500	0	93.3	85	115	08/15/2023	
Potassium		0.100		2.76	2.500	0	110.6	85	115	08/15/2023	
Sodium		0.0500		2.56	2.500	0	102.4	85	115	08/15/2023	

Batch 210785		SampType: LCSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: LCSD-210785											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100		2.54	2.500	0	101.7	2.582	1.55	08/15/2023	
Magnesium		0.0500		2.34	2.500	0	93.5	2.332	0.27	08/15/2023	
Potassium		0.100		2.76	2.500	0	110.3	2.765	0.22	08/15/2023	
Sodium		0.0500		2.56	2.500	0	102.2	2.559	0.16	08/15/2023	

Batch 210785		SampType: MS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-012CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	87.2	2.500	83.60	142.0	75	125	08/15/2023	
Magnesium		0.0500	S	42.8	2.500	39.63	127.9	75	125	08/15/2023	
Potassium		0.100		3.43	2.500	0.6776	110.0	75	125	08/15/2023	
Sodium		0.0500		42.2	2.500	39.16	119.6	75	125	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-012CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	87.8	2.500	83.60	169.2	87.15	0.78	08/15/2023	
Magnesium		0.0500	S	42.8	2.500	39.63	126.4	42.82	0.09	08/15/2023	
Potassium		0.100		3.44	2.500	0.6776	110.3	3.429	0.19	08/15/2023	
Sodium		0.0500	S	42.3	2.500	39.16	125.6	42.15	0.36	08/15/2023	

Batch 210785		SampType: MS		Units mg/L				RPD Limit 20			
SampID: 23071810-017CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		69.6	2.500	67.64	80.0	75	125	08/15/2023	
Magnesium		0.0500		34.6	2.500	32.47	83.9	75	125	08/15/2023	
Potassium		0.100		3.15	2.500	0.3994	109.9	75	125	08/15/2023	
Sodium		0.0500		85.2	2.500	83.10	83.6	75	125	08/15/2023	

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-017CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	69.5	2.500	67.64	74.0	69.64	0.22	08/15/2023	
Magnesium		0.0500		34.6	2.500	32.47	83.7	34.57	0.02	08/15/2023	
Potassium		0.100		3.16	2.500	0.3994	110.6	3.148	0.50	08/15/2023	
Sodium		0.0500		85.2	2.500	83.10	85.2	85.19	0.05	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210812 SampType: MBLK Units mg/L

SampID: MBLK-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/15/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/15/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/15/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/15/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/15/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/15/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/15/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/15/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/15/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/15/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/15/2023
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/15/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/15/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/15/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/15/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/15/2023
Silicon	*	0.0500	JS	0.031	0.0122	0	255.7	-100	100	08/15/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/15/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/15/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/15/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210812		SampType: LCS		Units mg/L							Date
SampID: LCS-210812											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		0.0250		1.98	2.000	0	99.2	85	115	08/15/2023	
Antimony		0.0500		0.537	0.5000	0	107.4	85	115	08/15/2023	
Arsenic		0.0250		0.570	0.5000	0	114.0	85	115	08/15/2023	
Barium		0.0025		2.11	2.000	0	105.5	85	115	08/15/2023	
Beryllium		0.0005		0.0526	0.0500	0	105.2	85	115	08/15/2023	
Boron		0.0200		0.524	0.5000	0	104.9	85	115	08/15/2023	
Cadmium		0.0020		0.0545	0.0500	0	109.0	85	115	08/15/2023	
Calcium		0.100		2.63	2.500	0	105.3	85	115	08/15/2023	
Chromium		0.0050		0.203	0.2000	0	101.6	85	115	08/15/2023	
Cobalt		0.0050		0.521	0.5000	0	104.2	85	115	08/15/2023	
Copper		0.0050		0.256	0.2500	0	102.6	85	115	08/15/2023	
Iron		0.0400		2.08	2.000	0	104.0	85	115	08/15/2023	
Lead		0.0150		0.523	0.5000	0	104.5	85	115	08/15/2023	
Magnesium		0.0500		2.49	2.500	0	99.5	85	115	08/15/2023	
Manganese		0.0070		0.506	0.5000	0	101.1	85	115	08/15/2023	
Molybdenum		0.0100		0.506	0.5000	0	101.2	85	115	08/15/2023	
Nickel		0.0050		0.533	0.5000	0	106.7	85	115	08/15/2023	
Potassium		0.100		2.71	2.500	0	108.2	85	115	08/15/2023	
Selenium		0.0400		0.536	0.5000	0	107.2	85	115	08/15/2023	
Silicon	*	0.0500	B	0.518	0.5000	0	103.6	85	115	08/15/2023	
Silver		0.0070		0.0489	0.0500	0	97.8	85	115	08/15/2023	
Sodium		0.0500		2.51	2.500	0	100.3	85	115	08/15/2023	
Thallium		0.0500		0.262	0.2500	0	104.8	85	115	08/15/2023	
Vanadium		0.0100		0.505	0.5000	0	101.0	85	115	08/15/2023	
Zinc		0.0100		0.528	0.5000	0	105.7	85	115	08/15/2023	

Batch 210812		SampType: MS		Units mg/L							Date
SampID: 23071810-101CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Calcium		0.100	S	80.7	2.500	76.79	156.0	75	125	08/15/2023	
Magnesium		0.0500		36.9	2.500	33.90	119.3	75	125	08/15/2023	
Potassium		0.100		3.03	2.500	0.2572	111.0	75	125	08/15/2023	
Sodium		0.0500		64.6	2.500	61.58	119.2	75	125	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210812		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 23071810-101CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		79.8	2.500	76.79	121.6	80.69	1.07	08/15/2023
Magnesium		0.0500		36.8	2.500	33.90	116.9	36.88	0.16	08/15/2023
Potassium		0.100		3.00	2.500	0.2572	109.9	3.031	0.87	08/15/2023
Sodium		0.0500		63.7	2.500	61.58	85.6	64.56	1.31	08/15/2023

Batch 210813		SampType: MBLK		Units mg/L						
SampID: MBLK-210813										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0310	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210813		SampType: LCS		Units mg/L							Date
SampID: LCS-210813											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		0.0250		1.96	2.000	0	97.9	85	115	08/16/2023	
Antimony		0.0500		0.499	0.5000	0	99.7	85	115	08/16/2023	
Arsenic		0.0250		0.500	0.5000	0	100.0	85	115	08/16/2023	
Barium		0.0025		1.98	2.000	0	99.0	85	115	08/16/2023	
Beryllium		0.0005		0.0492	0.0500	0	98.4	85	115	08/16/2023	
Boron		0.0200		0.493	0.5000	0	98.6	85	115	08/16/2023	
Cadmium		0.0020		0.0457	0.0500	0	91.4	85	115	08/16/2023	
Calcium		0.100		2.61	2.500	0	104.4	85	115	08/16/2023	
Chromium		0.0050		0.196	0.2000	0	98.0	85	115	08/16/2023	
Cobalt		0.0050		0.498	0.5000	0	99.7	85	115	08/16/2023	
Copper		0.0050		0.266	0.2500	0	106.5	85	115	08/16/2023	
Iron		0.0400		1.96	2.000	0	97.9	85	115	08/16/2023	
Lead		0.0150		0.478	0.5000	0	95.6	85	115	08/16/2023	
Magnesium		0.0500		2.32	2.500	0	92.8	85	115	08/16/2023	
Manganese		0.0070		0.502	0.5000	0	100.4	85	115	08/16/2023	
Molybdenum		0.0100		0.480	0.5000	0	96.0	85	115	08/16/2023	
Nickel		0.0050		0.482	0.5000	0	96.4	85	115	08/16/2023	
Potassium		0.100		2.63	2.500	0	105.2	85	115	08/16/2023	
Selenium		0.0400		0.476	0.5000	0	95.3	85	115	08/16/2023	
Silicon	*	0.0500		0.523	0.5000	0	104.6	85	115	08/16/2023	
Silver		0.0070		0.0500	0.0500	0	100.0	85	115	08/16/2023	
Sodium		0.0500		2.48	2.500	0	99.0	85	115	08/16/2023	
Thallium		0.0500		0.237	0.2500	0	94.9	85	115	08/16/2023	
Vanadium		0.0100		0.482	0.5000	0	96.4	85	115	08/16/2023	
Zinc		0.0100		0.487	0.5000	0	97.4	85	115	08/16/2023	

Batch 210813		SampType: MS		Units mg/L							Date
SampID: 23071810-082CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Calcium		0.100	S	96.1	2.500	94.57	61.6	75	125	08/16/2023	

Batch 210813		SampType: MSD		Units mg/L							RPD Limit 20	Date
SampID: 23071810-082CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed		
Calcium		0.100	S	96.0	2.500	94.57	56.0	96.11	0.15	08/16/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210813		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-083CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		84.6	2.500	82.71	77.2	75	125	08/16/2023	

Batch 210813		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-083CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Calcium		0.100		85.1	2.500	82.71	96.8	84.64	0.58	08/16/2023		

Batch 210826		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210826											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023	
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023	
Silicon	*	0.0500	JS	0.029	0.0122	0	237.7	-100	100	08/16/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023	

Batch 210826		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210826											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.87	2.500	0	114.6	85	115	08/16/2023	
Copper		0.0050		0.279	0.2500	0	111.7	85	115	08/16/2023	
Magnesium		0.0500		2.64	2.500	0	105.8	85	115	08/16/2023	
Molybdenum		0.0100		0.542	0.5000	0	108.4	85	115	08/16/2023	
Potassium		0.100		2.78	2.500	0	111.4	85	115	08/16/2023	
Silicon	*	0.0500	B	0.549	0.5000	0	109.9	85	115	08/16/2023	
Sodium		0.0500		2.74	2.500	0	109.8	85	115	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210826		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-105CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		105	2.500	103.3	85.2	75	125	08/16/2023	
Magnesium		0.0500		18.0	2.500	15.47	100.8	75	125	08/16/2023	
Potassium		0.500		19.2	2.500	16.17	121.8	75	125	08/17/2023	
Silicon	*	0.0500	B	10.8	0.5000	10.25	115.1	75	125	08/16/2023	
Sodium		0.0500		44.4	2.500	42.27	83.6	75	125	08/16/2023	

Batch 210826		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-105CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Calcium		0.100	S	104	2.500	103.3	41.2	105.4	1.05	08/16/2023		
Magnesium		0.0500		17.8	2.500	15.47	92.5	17.99	1.17	08/16/2023		
Potassium		0.500		18.9	2.500	16.17	110.5	19.21	1.49	08/17/2023		
Silicon	*	0.0500	B	10.7	0.5000	10.25	85.6	10.83	1.37	08/16/2023		
Sodium		0.0500	S	43.8	2.500	42.27	62.8	44.36	1.18	08/16/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210901 SampType: MBLK Units mg/L

SampID: MBLK-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Lithium		0.0050		< 0.0050	0.0019	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210901		SampType: LCS		Units mg/L							
SampID: LCS-210901											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.93	2.000	0	96.4	85	115	08/16/2023	
Antimony		0.0500		0.498	0.5000	0	99.7	85	115	08/16/2023	
Arsenic		0.0250		0.505	0.5000	0	100.9	85	115	08/16/2023	
Barium		0.0025		2.00	2.000	0	100.0	85	115	08/16/2023	
Beryllium		0.0005		0.0487	0.0500	0	97.4	85	115	08/16/2023	
Boron		0.0200		0.489	0.5000	0	97.9	85	115	08/16/2023	
Cadmium		0.0020		0.0485	0.0500	0	97.0	85	115	08/16/2023	
Calcium		0.100		2.62	2.500	0	104.9	85	115	08/16/2023	
Chromium		0.0050		0.193	0.2000	0	96.7	85	115	08/16/2023	
Cobalt		0.0050		0.490	0.5000	0	98.0	85	115	08/16/2023	
Copper		0.0050		0.255	0.2500	0	102.1	85	115	08/16/2023	
Iron		0.0400		1.94	2.000	0	97.2	85	115	08/16/2023	
Lead		0.0150		0.482	0.5000	0	96.4	85	115	08/16/2023	
Lithium		0.0050		0.468	0.5000	0	93.6	85	115	08/16/2023	
Magnesium		0.0500		2.32	2.500	0	92.8	85	115	08/16/2023	
Molybdenum		0.0100		0.474	0.5000	0	94.9	85	115	08/16/2023	
Nickel		0.0050		0.483	0.5000	0	96.6	85	115	08/16/2023	
Potassium		0.100		2.68	2.500	0	107.2	85	115	08/16/2023	
Selenium		0.0400		0.486	0.5000	0	97.2	85	115	08/16/2023	
Silicon	*	0.0500		0.520	0.5000	0	104.0	85	115	08/16/2023	
Silver		0.0070		0.0513	0.0500	0	102.6	85	115	08/16/2023	
Sodium		0.0500		2.50	2.500	0	100.2	85	115	08/16/2023	
Thallium		0.0500		0.243	0.2500	0	97.1	85	115	08/16/2023	
Vanadium		0.0100		0.487	0.5000	0	97.4	85	115	08/16/2023	
Zinc		0.0100		0.490	0.5000	0	98.0	85	115	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210901		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-028CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.99	2.000	0.01430	99.0	75	125	08/16/2023	
Arsenic		0.0250		0.504	0.5000	0	100.8	75	125	08/16/2023	
Barium		0.0025		2.05	2.000	0.09890	97.6	75	125	08/16/2023	
Beryllium		0.0005		0.0492	0.0500	0	98.4	75	125	08/16/2023	
Boron		0.0200		0.499	0.5000	0	99.9	75	125	08/16/2023	
Cadmium		0.0020		0.0456	0.0500	0	91.2	75	125	08/16/2023	
Chromium		0.0050		0.196	0.2000	0	98.2	75	125	08/16/2023	
Copper		0.0050		0.265	0.2500	0	105.8	75	125	08/16/2023	
Iron		0.0400		1.97	2.000	0.02400	97.1	75	125	08/16/2023	
Lead		0.0150		0.475	0.5000	0	95.0	75	125	08/16/2023	
Molybdenum		0.0100		0.490	0.5000	0	97.9	75	125	08/16/2023	
Nickel		0.0050		0.477	0.5000	0	95.3	75	125	08/16/2023	
Silver		0.0070		0.0522	0.0500	0	104.4	75	125	08/16/2023	
Zinc		0.0100		0.491	0.5000	0	98.2	75	125	08/16/2023	

Batch 210901		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-028CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		0.0250		1.99	2.000	0.01430	98.7	1.994	0.32	08/16/2023		
Arsenic		0.0250		0.499	0.5000	0	99.8	0.5040	0.96	08/16/2023		
Barium		0.0025		2.05	2.000	0.09890	97.6	2.050	0.00	08/16/2023		
Beryllium		0.0005		0.0491	0.0500	0	98.2	0.04920	0.20	08/16/2023		
Boron		0.0200		0.498	0.5000	0	99.7	0.4994	0.22	08/16/2023		
Cadmium		0.0020		0.0457	0.0500	0	91.4	0.04560	0.22	08/16/2023		
Chromium		0.0050		0.195	0.2000	0	97.5	0.1965	0.82	08/16/2023		
Copper		0.0050		0.263	0.2500	0	105.2	0.2646	0.61	08/16/2023		
Iron		0.0400		1.96	2.000	0.02400	96.6	1.966	0.49	08/16/2023		
Lead		0.0150		0.472	0.5000	0	94.5	0.4748	0.49	08/16/2023		
Molybdenum		0.0100		0.486	0.5000	0	97.2	0.4896	0.78	08/16/2023		
Nickel		0.0050		0.476	0.5000	0	95.2	0.4766	0.08	08/16/2023		
Silver		0.0070		0.0521	0.0500	0	104.2	0.05220	0.19	08/16/2023		
Zinc		0.0100		0.488	0.5000	0	97.6	0.4908	0.53	08/16/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210926 SampType: MBLK Units mg/L

SampID: MBLK-210926

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/17/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/17/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/17/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/17/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/17/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/17/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/17/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/17/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/17/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/17/2023
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/17/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/17/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/17/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/17/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/17/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/17/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/17/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210926		SampType: LCS		Units mg/L							Date
SampID: LCS-210926											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		0.0250		1.96	2.000	0	97.9	85	115	08/17/2023	
Arsenic		0.0250		0.530	0.5000	0	106.1	85	115	08/17/2023	
Barium		0.0025		2.04	2.000	0	102.0	85	115	08/17/2023	
Beryllium		0.0005		0.0505	0.0500	0	101.0	85	115	08/17/2023	
Boron		0.0200		0.507	0.5000	0	101.3	85	115	08/17/2023	
Cadmium		0.0020		0.0502	0.0500	0	100.4	85	115	08/17/2023	
Calcium		0.100		2.49	2.500	0	99.6	85	115	08/17/2023	
Calcium		0.100		2.59	2.500	0	103.7	85	115	08/17/2023	
Chromium		0.0050		0.200	0.2000	0	100.2	85	115	08/17/2023	
Iron		0.0400		2.08	2.000	0	104.0	85	115	08/17/2023	
Lead		0.0150		0.506	0.5000	0	101.2	85	115	08/17/2023	
Magnesium		0.0500		2.39	2.500	0	95.6	85	115	08/17/2023	
Manganese		0.0070		0.505	0.5000	0	101.0	85	115	08/17/2023	
Molybdenum		0.0100		0.495	0.5000	0	99.1	85	115	08/17/2023	
Potassium		0.100		2.70	2.500	0	108.1	85	115	08/17/2023	
Silicon	*	0.0500		0.529	0.5000	0	105.7	85	115	08/17/2023	
Sodium		0.0500		2.53	2.500	0	101.4	85	115	08/17/2023	

Batch 210926		SampType: MS		Units mg/L							Date
SampID: 23071810-052CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Calcium		0.100	S	142	2.500	140.4	53.2	75	125	08/17/2023	
Magnesium		0.0500		71.3	2.500	68.89	94.8	75	125	08/17/2023	
Potassium		0.100		4.02	2.500	1.309	108.6	75	125	08/17/2023	
Silicon	*	0.0500		10.2	0.5000	9.583	115.1	75	125	08/17/2023	
Sodium		0.0500		57.6	2.500	55.43	86.4	75	125	08/17/2023	

Batch 210926		SampType: MSD		Units mg/L							RPD Limit 20	Date
SampID: 23071810-052CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed		
Calcium		0.100	S	142	2.500	140.4	70.8	141.8	0.31	08/17/2023		
Magnesium		0.0500		71.4	2.500	68.89	100.7	71.26	0.21	08/17/2023		
Potassium		0.100		4.02	2.500	1.309	108.4	4.024	0.14	08/17/2023		
Silicon	*	0.0500		10.2	0.5000	9.583	122.0	10.16	0.34	08/17/2023		
Sodium		0.0500		57.7	2.500	55.43	89.2	57.59	0.12	08/17/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211078 SampType: MBLK Units mg/L

SampID: MBLK-211078

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/21/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/21/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/21/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/21/2023

Batch 211078 SampType: LCS Units mg/L

SampID: LCS-211078

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.77	2.500	0	111.0	85	115	08/21/2023
Magnesium		0.0500		2.53	2.500	0	101.2	85	115	08/21/2023
Potassium		0.100		2.77	2.500	0	110.7	85	115	08/21/2023
Sodium		0.0500		2.61	2.500	0	104.3	85	115	08/21/2023

Batch 211078 SampType: LCSD Units mg/L

SampID: LCSD-211078

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		2.80	2.500	0	112.2	2.774	1.10	08/21/2023
Magnesium		0.0500		2.55	2.500	0	102.1	2.529	0.91	08/21/2023
Potassium		0.100		2.79	2.500	0	111.5	2.767	0.73	08/21/2023
Sodium		0.0500		2.63	2.500	0	105.2	2.608	0.84	08/21/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211843 SampType: MBLK Units mg/L

SampID: MBLK-211843

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	09/12/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	09/12/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	09/12/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/12/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/12/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/12/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/12/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/12/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/12/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/12/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/12/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/12/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	09/12/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/12/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/12/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	09/12/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/12/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/12/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/12/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/12/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/12/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	09/12/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/12/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/12/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211843		SampType: LCS		Units mg/L							
SampID: LCS-211843											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		2.01	2.000	0	100.5	85	115	09/12/2023	
Antimony		0.0500		0.523	0.5000	0	104.6	85	115	09/12/2023	
Arsenic		0.0250		0.523	0.5000	0	104.7	85	115	09/12/2023	
Barium		0.0025		2.07	2.000	0	103.5	85	115	09/12/2023	
Beryllium		0.0005		0.0503	0.0500	0	100.6	85	115	09/12/2023	
Boron		0.0200		0.499	0.5000	0	99.9	85	115	09/12/2023	
Cadmium		0.0020		0.0514	0.0500	0	102.8	85	115	09/12/2023	
Calcium		0.100		2.62	2.500	0	104.8	85	115	09/12/2023	
Chromium		0.0050		0.200	0.2000	0	100.1	85	115	09/12/2023	
Cobalt		0.0050		0.501	0.5000	0	100.2	85	115	09/12/2023	
Copper		0.0050		0.258	0.2500	0	103.3	85	115	09/12/2023	
Iron		0.0400		2.13	2.000	0	106.5	85	115	09/12/2023	
Lead		0.0150		0.497	0.5000	0	99.5	85	115	09/12/2023	
Magnesium		0.0500		2.37	2.500	0	94.9	85	115	09/12/2023	
Manganese		0.0070		0.500	0.5000	0	100.0	85	115	09/12/2023	
Molybdenum		0.0100		0.492	0.5000	0	98.3	85	115	09/12/2023	
Nickel		0.0050		0.503	0.5000	0	100.5	85	115	09/12/2023	
Potassium		0.100		2.66	2.500	0	106.4	85	115	09/12/2023	
Selenium		0.0400		0.503	0.5000	0	100.5	85	115	09/12/2023	
Silver		0.0070		0.0522	0.0500	0	104.4	85	115	09/12/2023	
Sodium		0.0500		2.58	2.500	0	103.4	85	115	09/12/2023	
Thallium		0.0500		0.249	0.2500	0	99.6	85	115	09/12/2023	
Vanadium		0.0100		0.509	0.5000	0	101.8	85	115	09/12/2023	
Zinc		0.0100		0.502	0.5000	0	100.4	85	115	09/12/2023	

Batch 211883		SampType: MBLK		Units mg/L							
SampID: MBLK-211883											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/13/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/13/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/13/2023	
Silicon	*	0.0500	JS	0.037	0.0122	0	300.0	-100	100	09/13/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/13/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211883		SampType: LCS		Units mg/L							
SampID: LCS-211883											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.68	2.500	0	107.2	85	115	09/13/2023	
Magnesium		0.0500		2.45	2.500	0	98.1	85	115	09/13/2023	
Potassium		0.100		2.57	2.500	0	102.9	85	115	09/13/2023	
Silicon	*	0.0500	B	0.512	0.5000	0	102.4	85	115	09/13/2023	
Sodium		0.0500		2.53	2.500	0	101.3	85	115	09/13/2023	

Batch 212184		SampType: MBLK		Units mg/L							
SampID: MBLK-212184											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/26/2023	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/26/2023	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/20/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/20/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/25/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/26/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/26/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/20/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/26/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/26/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/26/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/20/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/26/2023	
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	09/20/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/20/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/26/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/26/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 212184 SampType: LCS Units mg/L

SampID: LCS-212184

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.59	2.500	0	103.5	85	115	09/26/2023
Calcium		0.100		2.53	2.500	0	101.1	85	115	09/20/2023
Calcium		0.100		2.54	2.500	0	101.5	85	115	09/26/2023
Lead		0.0150		0.498	0.5000	0	99.6	85	115	09/26/2023
Lead		0.0150		0.495	0.5000	0	99.0	85	115	09/20/2023
Lead		0.0150		0.515	0.5000	0	103.0	85	115	09/25/2023
Lead		0.0150		0.492	0.5000	0	98.5	85	115	09/26/2023
Magnesium		0.0500		2.40	2.500	0	96.1	85	115	09/26/2023
Magnesium		0.0500		2.48	2.500	0	99.3	85	115	09/20/2023
Magnesium		0.0500		2.38	2.500	0	95.3	85	115	09/26/2023
Potassium		0.100		2.45	2.500	0	98.0	85	115	09/20/2023
Potassium		0.100		2.68	2.500	0	107.2	85	115	09/26/2023
Potassium		0.100		2.56	2.500	0	102.3	85	115	09/26/2023
Silicon	*	0.0500		0.527	0.5000	0	105.4	85	115	09/26/2023
Sodium		0.0500		2.52	2.500	0	100.9	85	115	09/26/2023
Sodium		0.0500		2.37	2.500	0	94.7	85	115	09/20/2023
Sodium		0.0500		2.50	2.500	0	100.2	85	115	09/26/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210784 SampType: MBLK Units mg/L

SampID: MBLK-210784

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/13/2023
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/13/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/30/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/13/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/13/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/30/2023
Cobalt		0.0010		< 0.0010	0.0003	0	0	-100	100	08/30/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/11/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/13/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/13/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/13/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/13/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210784 SampType: LCS Units mg/L

SampID: LCS-210784

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.89	2.000	0	94.6	80	120	09/13/2023
Aluminum		0.0250		1.70	2.000	0	85.0	80	120	08/30/2023
Antimony		0.0010		0.469	0.5000	0	93.9	80	120	08/30/2023
Arsenic		0.0010		0.517	0.5000	0	103.5	80	120	09/13/2023
Arsenic		0.0010		0.505	0.5000	0	101.0	80	120	08/30/2023
Barium		0.0010		1.96	2.000	0	97.9	80	120	08/30/2023
Barium		0.0010		2.11	2.000	0	105.4	80	120	09/13/2023
Beryllium		0.0010		0.0436	0.0500	0	87.3	80	120	08/30/2023
Beryllium		0.0010		0.0481	0.0500	0	96.1	80	120	09/13/2023
Boron		0.0250		0.455	0.5000	0	91.0	80	120	08/30/2023
Cadmium		0.0010		0.0492	0.0500	0	98.3	80	120	09/13/2023
Cadmium		0.0010		0.0467	0.0500	0	93.3	80	120	08/30/2023
Chromium		0.0015		0.205	0.2000	0	102.6	80	120	09/13/2023
Chromium		0.0015		0.193	0.2000	0	96.5	80	120	08/30/2023
Cobalt		0.0010		0.493	0.5000	0	98.6	80	120	08/30/2023
Iron		0.0250		1.93	2.000	0	96.5	80	120	08/30/2023
Iron		0.0250		2.12	2.000	0	105.8	80	120	09/13/2023
Lead		0.0010		0.517	0.5000	0	103.4	80	120	09/13/2023
Lead		0.0010		0.487	0.5000	0	97.4	80	120	08/30/2023
Manganese		0.0020		0.533	0.5000	0	106.6	80	120	09/13/2023
Manganese		0.0020		0.480	0.5000	0	96.0	80	120	08/30/2023
Molybdenum	*	0.0015		0.477	0.5000	0	95.4	80	120	09/13/2023
Molybdenum	*	0.0015		0.480	0.5000	0	96.1	80	120	08/30/2023
Nickel		0.0010		0.519	0.5000	0	103.8	80	120	09/13/2023
Nickel		0.0010		0.494	0.5000	0	98.7	80	120	08/30/2023
Selenium		0.0010		0.453	0.5000	0	90.6	80	120	08/30/2023
Silver		0.0010		0.0544	0.0500	0	108.8	80	120	08/30/2023
Silver		0.0010		0.0463	0.0500	0	92.7	80	120	09/13/2023
Thallium		0.0020		0.232	0.2500	0	93.0	80	120	08/30/2023
Vanadium		0.0050		0.472	0.5000	0	94.4	80	120	08/30/2023
Zinc		0.0150		0.441	0.5000	0	88.3	80	120	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210784 SampType: MS

Units mg/L

SampID: 23071810-002DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.69	2.000	0	84.7	75	125	08/30/2023
Antimony		0.0010		0.469	0.5000	0	93.9	75	125	08/30/2023
Arsenic		0.0010		0.518	0.5000	0	103.5	75	125	08/30/2023
Barium		0.0010		1.97	2.000	0.05111	96.2	75	125	08/30/2023
Beryllium		0.0010		0.0473	0.0500	0	94.6	75	125	08/30/2023
Boron		0.0250		0.495	0.5000	0	99.1	75	125	08/30/2023
Cadmium		0.0010		0.0451	0.0500	0	90.2	75	125	08/30/2023
Chromium		0.0015		0.194	0.2000	0	96.8	75	125	08/30/2023
Cobalt		0.0010		0.489	0.5000	0	97.9	75	125	08/30/2023
Copper		0.0010		0.248	0.2500	0.002143	98.2	75	125	08/30/2023
Iron		0.0250		1.93	2.000	0.01553	95.6	75	125	08/30/2023
Lead		0.0010		0.481	0.5000	0	96.2	75	125	08/30/2023
Manganese		0.0020		0.480	0.5000	0.003507	95.3	75	125	08/30/2023
Molybdenum	*	0.0015		0.487	0.5000	0	97.3	75	125	08/30/2023
Nickel		0.0010		0.484	0.5000	0.001108	96.6	75	125	08/30/2023
Selenium		0.0010		0.465	0.5000	0.001678	92.8	75	125	08/30/2023
Silver		0.0010		0.0519	0.0500	0	103.9	75	125	08/30/2023
Thallium		0.0020		0.237	0.2500	0	94.6	75	125	08/30/2023
Vanadium		0.0050		0.476	0.5000	0	95.2	75	125	08/30/2023
Zinc		0.0150		0.447	0.5000	0	89.4	75	125	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.67	2.000	0	83.5	1.695	1.46	08/30/2023
Antimony		0.0010		0.461	0.5000	0	92.2	0.4693	1.75	08/30/2023
Arsenic		0.0010		0.502	0.5000	0	100.4	0.5176	3.08	08/30/2023
Barium		0.0010		1.92	2.000	0.05111	93.2	1.974	3.03	08/30/2023
Beryllium		0.0010		0.0455	0.0500	0	91.0	0.04729	3.83	08/30/2023
Boron		0.0250		0.495	0.5000	0	98.9	0.4954	0.15	08/30/2023
Cadmium		0.0010		0.0447	0.0500	0	89.5	0.04512	0.87	08/30/2023
Chromium		0.0015		0.188	0.2000	0	94.1	0.1936	2.79	08/30/2023
Cobalt		0.0010		0.477	0.5000	0	95.5	0.4894	2.50	08/30/2023
Copper		0.0010		0.242	0.2500	0.002143	95.8	0.2475	2.36	08/30/2023
Iron		0.0250		1.91	2.000	0.01553	94.7	1.927	0.88	08/30/2023
Lead		0.0010		0.477	0.5000	0	95.5	0.4812	0.79	08/30/2023
Manganese		0.0020		0.474	0.5000	0.003507	94.2	0.4801	1.19	08/30/2023
Molybdenum	*	0.0015		0.471	0.5000	0	94.1	0.4866	3.31	08/30/2023
Nickel		0.0010		0.473	0.5000	0.001108	94.4	0.4842	2.32	08/30/2023
Selenium		0.0010		0.446	0.5000	0.001678	88.9	0.4655	4.24	08/30/2023
Silver		0.0010		0.0504	0.0500	0	100.8	0.05195	3.05	08/30/2023
Thallium		0.0020		0.237	0.2500	0	94.7	0.2366	0.01	08/30/2023
Vanadium		0.0050		0.471	0.5000	0	94.2	0.4760	1.10	08/30/2023
Zinc		0.0150		0.430	0.5000	0	86.0	0.4471	3.92	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814 SampType: MBLK Units mg/L

SampleID: MBLK-210814

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/30/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/11/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/11/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814 SampType: LCS Units mg/L

SampID: LCS-210814

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.68	2.000	0	84.2	80	120	08/30/2023
Antimony		0.0010		0.454	0.5000	0	90.8	80	120	08/30/2023
Arsenic		0.0010		0.504	0.5000	0	100.9	80	120	08/30/2023
Barium		0.0010		1.89	2.000	0	94.6	80	120	08/30/2023
Beryllium		0.0010		0.0469	0.0500	0	93.8	80	120	08/30/2023
Boron		0.0250		0.474	0.5000	0	94.9	80	120	08/30/2023
Cadmium		0.0010		0.0458	0.0500	0	91.5	80	120	08/30/2023
Chromium		0.0015		0.195	0.2000	0	97.3	80	120	08/30/2023
Cobalt		0.0010		0.493	0.5000	0	98.6	80	120	08/30/2023
Copper		0.0010		0.257	0.2500	0	102.7	80	120	08/30/2023
Iron		0.0250		1.96	2.000	0	97.8	80	120	08/30/2023
Lead		0.0010		0.468	0.5000	0	93.5	80	120	08/30/2023
Manganese		0.0020		0.489	0.5000	0	97.8	80	120	08/30/2023
Molybdenum	*	0.0015		0.467	0.5000	0	93.3	80	120	08/30/2023
Nickel		0.0010		0.495	0.5000	0	99.0	80	120	08/30/2023
Selenium		0.0010		0.469	0.5000	0	93.8	80	120	08/30/2023
Silver		0.0010		0.0530	0.0500	0	106.1	80	120	08/30/2023
Thallium		0.0020		0.233	0.2500	0	93.2	80	120	08/30/2023
Vanadium		0.0050		0.469	0.5000	0	93.8	80	120	08/30/2023
Zinc		0.0150		0.456	0.5000	0	91.1	80	120	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814 SampType: MS

Units mg/L

SampID: 23071810-004DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		3.10	4.000	0.01385	77.2	75	125	08/31/2023
Antimony		0.0010		0.949	1.000	0	94.9	75	125	08/31/2023
Arsenic		0.0010		0.906	1.000	0.002154	90.4	75	125	08/31/2023
Barium		0.0010		3.70	4.000	0.09539	90.2	75	125	08/31/2023
Beryllium		0.0010		0.0866	0.1000	0	86.6	75	125	08/31/2023
Boron		0.0250		0.913	1.000	0.03014	88.3	75	125	08/31/2023
Cadmium		0.0010		0.0896	0.1000	0	89.6	75	125	08/31/2023
Chromium		0.0015		0.349	0.4000	0	87.2	75	125	08/31/2023
Cobalt		0.0010		0.994	1.000	0.0005190	99.4	75	125	08/31/2023
Copper		0.0010		0.437	0.5000	0.001017	87.3	75	125	08/31/2023
Iron		0.0250		3.94	4.000	0.4055	88.4	75	125	08/31/2023
Lead		0.0010		0.934	1.000	0	93.4	75	125	08/31/2023
Manganese		0.0200	S	1.93	1.000	1.492	44.3	75	125	09/13/2023
Molybdenum	*	0.0015		0.920	1.000	0.0008750	92.0	75	125	08/31/2023
Nickel		0.0010		0.867	1.000	0.0007445	86.6	75	125	08/31/2023
Selenium		0.0010		0.791	1.000	0	79.1	75	125	08/31/2023
Silver		0.0010		0.0985	0.1000	0	98.5	75	125	08/31/2023
Thallium		0.0020		0.437	0.5000	0	87.5	75	125	08/31/2023
Vanadium		0.0050		0.861	1.000	0	86.1	75	125	08/31/2023
Zinc		0.0150		0.776	1.000	0	77.6	75	125	08/31/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814		SampType: MSD		Units mg/L				RPD Limit 20			Date
SampID: 23071810-004DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		0.0250		3.13	4.000	0.01385	77.9	3.102	0.87	08/31/2023	
Antimony		0.0010		0.982	1.000	0	98.2	0.9493	3.37	08/31/2023	
Arsenic		0.0010		0.950	1.000	0.002154	94.8	0.9061	4.71	08/31/2023	
Barium		0.0010		3.83	4.000	0.09539	93.2	3.705	3.20	08/31/2023	
Beryllium		0.0010		0.0893	0.1000	0	89.3	0.08655	3.15	08/31/2023	
Boron		0.0250		0.927	1.000	0.03014	89.6	0.9129	1.50	08/31/2023	
Cadmium		0.0010		0.0930	0.1000	0	93.0	0.08958	3.75	08/31/2023	
Chromium		0.0015		0.356	0.4000	0	88.9	0.3490	1.91	08/31/2023	
Cobalt		0.0010		1.03	1.000	0.0005190	102.8	0.9940	3.45	08/31/2023	
Copper		0.0010		0.450	0.5000	0.001017	89.9	0.4373	2.93	08/31/2023	
Iron		0.0250		3.99	4.000	0.4055	89.5	3.941	1.10	08/31/2023	
Lead		0.0010		0.931	1.000	0	93.1	0.9340	0.35	08/31/2023	
Manganese		0.0200	S	1.97	1.000	1.492	47.5	1.935	1.66	09/13/2023	
Molybdenum	*	0.0015		0.957	1.000	0.0008750	95.6	0.9205	3.89	08/31/2023	
Nickel		0.0010		0.897	1.000	0.0007445	89.6	0.8669	3.36	08/31/2023	
Selenium		0.0010		0.825	1.000	0	82.5	0.7913	4.13	08/31/2023	
Silver		0.0010		0.102	0.1000	0	102.2	0.09849	3.66	08/31/2023	
Thallium		0.0020		0.438	0.5000	0	87.6	0.4373	0.17	08/31/2023	
Vanadium		0.0050		0.882	1.000	0	88.2	0.8614	2.30	08/31/2023	
Zinc		0.0150		0.801	1.000	0	80.1	0.7757	3.15	08/31/2023	

Batch 210814		SampType: MS		Units mg/L						Date
SampID: 23071810-016CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.506	0.5000	0	101.2	75	125	08/31/2023
Arsenic		0.0010		0.491	0.5000	0	98.2	75	125	08/31/2023
Barium		0.0010		2.23	2.000	0.06386	108.2	75	125	09/10/2023
Boron		0.0250		0.479	0.5000	0.009340	93.9	75	125	08/31/2023
Cadmium		0.0010		0.0470	0.0500	0	94.0	75	125	08/31/2023
Chromium		0.0015		0.189	0.2000	0	94.3	75	125	08/31/2023
Cobalt		0.0010		0.461	0.5000	0	92.1	75	125	08/31/2023
Lead		0.0010		0.475	0.5000	0	95.0	75	125	08/31/2023
Manganese		0.0020		0.462	0.5000	0.001600	92.1	75	125	08/31/2023
Zinc		0.0150		0.470	0.5000	0	94.1	75	125	08/31/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	SampType	Units		mg/L		RPD Limit		20		Date
210814	MSD									Analyzed
SampID: 23071810-016CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date
Antimony		0.0010		0.472	0.5000	0	94.3	0.5058	7.00	08/31/2023
Arsenic		0.0010		0.454	0.5000	0	90.8	0.4908	7.77	08/31/2023
Barium		0.0010		2.26	2.000	0.06386	109.9	2.228	1.54	09/10/2023
Boron		0.0250		0.453	0.5000	0.009340	88.7	0.4791	5.67	08/31/2023
Cadmium		0.0010		0.0442	0.0500	0	88.4	0.04699	6.10	08/31/2023
Chromium		0.0015		0.178	0.2000	0	88.8	0.1885	6.03	08/31/2023
Cobalt		0.0010		0.440	0.5000	0	88.0	0.4607	4.58	08/31/2023
Lead		0.0010		0.462	0.5000	0	92.4	0.4751	2.80	08/31/2023
Manganese		0.0020		0.433	0.5000	0.001600	86.3	0.4620	6.42	08/31/2023
Zinc		0.0150		0.434	0.5000	0	86.7	0.4704	8.14	08/31/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815 SampType: MBLK Units mg/L
SampID: MBLK-210815

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/13/2023
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/13/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/13/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/30/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/13/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/30/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/13/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/30/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/13/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/13/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/13/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/13/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815 SampType: LCS Units mg/L

SampID: LCS-210815

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.66	2.000	0	83.1	80	120	08/30/2023
Aluminum		0.0250		1.81	2.000	0	90.5	80	120	09/13/2023
Antimony		0.0010		0.447	0.5000	0	89.4	80	120	08/30/2023
Arsenic		0.0010		0.479	0.5000	0	95.7	80	120	08/30/2023
Arsenic		0.0010		0.523	0.5000	0	104.7	80	120	09/13/2023
Barium		0.0010		1.89	2.000	0	94.5	80	120	08/30/2023
Barium		0.0010		2.07	2.000	0	103.3	80	120	09/13/2023
Beryllium		0.0010		0.0452	0.0500	0	90.5	80	120	09/13/2023
Beryllium		0.0010		0.0421	0.0500	0	84.2	80	120	08/30/2023
Boron		0.0250		0.446	0.5000	0	89.2	80	120	08/30/2023
Cadmium		0.0010		0.0439	0.0500	0	87.8	80	120	08/30/2023
Cadmium		0.0010		0.0472	0.0500	0	94.4	80	120	09/13/2023
Chromium		0.0015		0.205	0.2000	0	102.4	80	120	09/13/2023
Chromium		0.0015		0.186	0.2000	0	93.1	80	120	08/30/2023
Cobalt		0.0010		0.478	0.5000	0	95.6	80	120	08/30/2023
Copper		0.0010		0.244	0.2500	0	97.8	80	120	08/30/2023
Copper		0.0010		0.259	0.2500	0	103.6	80	120	09/13/2023
Iron		0.0250		1.88	2.000	0	94.2	80	120	08/30/2023
Iron		0.0250		2.08	2.000	0	103.9	80	120	09/13/2023
Lead		0.0010		0.510	0.5000	0	102.0	80	120	09/13/2023
Lead		0.0010		0.467	0.5000	0	93.4	80	120	08/30/2023
Manganese		0.0020		0.469	0.5000	0	93.7	80	120	08/30/2023
Manganese		0.0020		0.522	0.5000	0	104.3	80	120	09/13/2023
Molybdenum	*	0.0015		0.476	0.5000	0	95.3	80	120	09/13/2023
Molybdenum	*	0.0015		0.451	0.5000	0	90.2	80	120	08/30/2023
Nickel		0.0010		0.476	0.5000	0	95.1	80	120	08/30/2023
Nickel		0.0010		0.520	0.5000	0	103.9	80	120	09/13/2023
Selenium		0.0010		0.433	0.5000	0	86.7	80	120	08/30/2023
Silver		0.0010		0.0452	0.0500	0	90.4	80	120	09/13/2023
Silver		0.0010		0.0512	0.0500	0	102.3	80	120	08/30/2023
Thallium		0.0020		0.228	0.2500	0	91.4	80	120	08/30/2023
Vanadium		0.0050		0.461	0.5000	0	92.1	80	120	08/30/2023
Zinc		0.0150		0.425	0.5000	0	85.0	80	120	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815 SampType: MS

Units mg/L

SampleID: 23071810-034DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.68	2.000	0	84.1	75	125	08/30/2023
Antimony		0.0010		0.456	0.5000	0.001644	90.9	75	125	08/30/2023
Arsenic		0.0010		0.483	0.5000	0	96.6	75	125	08/30/2023
Barium		0.0010		1.92	2.000	0.07190	92.4	75	125	08/30/2023
Beryllium		0.0010		0.0467	0.0500	0	93.4	75	125	08/30/2023
Boron		0.0250		0.481	0.5000	0	96.2	75	125	08/30/2023
Cadmium		0.0010		0.0438	0.0500	0	87.6	75	125	08/30/2023
Chromium		0.0015		0.186	0.2000	0	93.0	75	125	08/30/2023
Cobalt		0.0010		0.469	0.5000	0	93.8	75	125	08/30/2023
Copper		0.0010		0.232	0.2500	0.004065	91.2	75	125	08/30/2023
Iron		0.0250		1.88	2.000	0	93.8	75	125	08/30/2023
Lead		0.0010		0.472	0.5000	0	94.4	75	125	08/30/2023
Manganese		0.0020		0.499	0.5000	0.03745	92.4	75	125	08/30/2023
Molybdenum	*	0.0015		0.460	0.5000	0	92.0	75	125	08/30/2023
Nickel		0.0010		0.460	0.5000	0	92.0	75	125	08/30/2023
Selenium		0.0010		0.435	0.5000	0	86.9	75	125	08/30/2023
Silver		0.0010		0.0500	0.0500	0	100.0	75	125	08/30/2023
Thallium		0.0020		0.235	0.2500	0	94.2	75	125	08/30/2023
Vanadium		0.0050		0.462	0.5000	0	92.3	75	125	08/30/2023
Zinc		0.0150		0.414	0.5000	0	82.9	75	125	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.67	2.000	0	83.6	1.683	0.68	08/30/2023
Antimony		0.0010		0.458	0.5000	0.001644	91.2	0.4560	0.41	08/30/2023
Arsenic		0.0010		0.490	0.5000	0	97.9	0.4830	1.33	08/30/2023
Barium		0.0010		1.93	2.000	0.07190	92.7	1.920	0.37	08/30/2023
Beryllium		0.0010		0.0463	0.0500	0	92.7	0.04672	0.81	08/30/2023
Boron		0.0250		0.484	0.5000	0	96.7	0.4809	0.55	08/30/2023
Cadmium		0.0010		0.0447	0.0500	0	89.3	0.04380	1.94	08/30/2023
Chromium		0.0015		0.187	0.2000	0	93.5	0.1860	0.59	08/30/2023
Cobalt		0.0010		0.470	0.5000	0	94.0	0.4691	0.17	08/30/2023
Copper		0.0010		0.238	0.2500	0.004065	93.6	0.2320	2.55	08/30/2023
Iron		0.0250		1.88	2.000	0	93.9	1.876	0.13	08/30/2023
Lead		0.0010		0.473	0.5000	0	94.6	0.4720	0.17	08/30/2023
Manganese		0.0020		0.498	0.5000	0.03745	92.1	0.4993	0.28	08/30/2023
Molybdenum	*	0.0015		0.467	0.5000	0	93.4	0.4598	1.57	08/30/2023
Nickel		0.0010		0.468	0.5000	0	93.7	0.4600	1.80	08/30/2023
Selenium		0.0010		0.441	0.5000	0	88.3	0.4346	1.53	08/30/2023
Silver		0.0010		0.0504	0.0500	0	100.9	0.04999	0.90	08/30/2023
Thallium		0.0020		0.233	0.2500	0	93.0	0.2354	1.21	08/30/2023
Vanadium		0.0050		0.467	0.5000	0	93.3	0.4617	1.09	08/30/2023
Zinc		0.0150		0.431	0.5000	0	86.1	0.4144	3.82	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815 SampType: MS

Units mg/L

SampleID: 23071810-036DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.60	2.000	0	79.9	75	125	08/30/2023
Antimony		0.0010		0.463	0.5000	0	92.5	75	125	08/30/2023
Arsenic		0.0010		0.503	0.5000	0.001345	100.4	75	125	08/30/2023
Barium		0.0010		1.90	2.000	0.04878	92.8	75	125	08/30/2023
Beryllium		0.0010		0.0438	0.0500	0	87.6	75	125	08/30/2023
Boron		0.0250		1.45	0.5000	1.025	85.3	75	125	08/30/2023
Cadmium		0.0010		0.0445	0.0500	0	89.0	75	125	08/30/2023
Chromium		0.0015		0.181	0.2000	0	90.7	75	125	08/30/2023
Cobalt		0.0010		0.499	0.5000	0.03509	92.8	75	125	08/30/2023
Copper		0.0010		0.228	0.2500	0.001314	90.8	75	125	08/30/2023
Iron		0.0250		7.36	2.000	5.848	75.7	75	125	08/30/2023
Lead		0.0010		0.483	0.5000	0	96.7	75	125	08/30/2023
Manganese		0.0020		0.976	0.5000	0.5611	83.0	75	125	08/30/2023
Molybdenum	*	0.0015		0.480	0.5000	0.001421	95.7	75	125	08/30/2023
Nickel		0.0010		0.456	0.5000	0.001943	90.8	75	125	08/30/2023
Selenium		0.0010		0.449	0.5000	0	89.8	75	125	08/30/2023
Silver		0.0010		0.0497	0.0500	0	99.4	75	125	08/30/2023
Thallium		0.0020		0.238	0.2500	0	95.3	75	125	08/30/2023
Vanadium		0.0050		0.459	0.5000	0	91.9	75	125	08/30/2023
Zinc		0.0150		0.413	0.5000	0	82.6	75	125	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	SampType	Units mg/L			RPD Limit 20					Date Analyzed
210815	MSD									
SampID: 23071810-036DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Aluminum		0.0250		1.60	2.000	0	80.1	1.598	0.28	08/30/2023
Antimony		0.0010		0.452	0.5000	0	90.4	0.4627	2.38	08/30/2023
Arsenic		0.0010		0.510	0.5000	0.001345	101.8	0.5032	1.37	08/30/2023
Barium		0.0010		1.90	2.000	0.04878	92.3	1.905	0.50	08/30/2023
Beryllium		0.0010		0.0436	0.0500	0	87.1	0.04381	0.58	08/30/2023
Boron		0.0250		1.44	0.5000	1.025	83.9	1.451	0.50	08/30/2023
Cadmium		0.0010		0.0433	0.0500	0	86.6	0.04451	2.80	08/30/2023
Chromium		0.0015		0.181	0.2000	0	90.3	0.1814	0.47	08/30/2023
Cobalt		0.0010		0.502	0.5000	0.03509	93.5	0.4990	0.67	08/30/2023
Copper		0.0010		0.229	0.2500	0.001314	91.2	0.2283	0.45	08/30/2023
Iron		0.0250		7.46	2.000	5.848	80.4	7.362	1.27	08/30/2023
Lead		0.0010		0.470	0.5000	0	94.1	0.4834	2.72	08/30/2023
Manganese		0.0020		0.981	0.5000	0.5611	84.0	0.9762	0.47	08/30/2023
Molybdenum	*	0.0015		0.479	0.5000	0.001421	95.6	0.4797	0.05	08/30/2023
Nickel		0.0010		0.460	0.5000	0.001943	91.5	0.4560	0.77	08/30/2023
Selenium		0.0010		0.451	0.5000	0	90.3	0.4492	0.49	08/30/2023
Silver		0.0010		0.0485	0.0500	0	97.1	0.04968	2.30	08/30/2023
Thallium		0.0020		0.236	0.2500	0	94.3	0.2382	0.98	08/30/2023
Vanadium		0.0050		0.460	0.5000	0	92.0	0.4595	0.11	08/30/2023
Zinc		0.0150		0.414	0.5000	0	82.8	0.4131	0.19	08/30/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210825 SampType: MBLK Units mg/L

SampID: MBLK-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023
Aluminum		0.0250	S	0.0264	0.0125	0	211.5	-100	100	08/31/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/31/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/31/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/31/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/31/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/31/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/31/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/31/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/31/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/31/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/31/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210825 SampType: LCS Units mg/L

SampID: LCS-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	B	1.90	2.000	0	95.0	80	120	08/31/2023
Antimony		0.0010		0.484	0.5000	0	96.8	80	120	08/31/2023
Arsenic		0.0010		0.487	0.5000	0	97.3	80	120	08/31/2023
Barium		0.0010		2.12	2.000	0	105.9	80	120	09/10/2023
Beryllium		0.0010		0.0461	0.0500	0	92.3	80	120	08/31/2023
Boron		0.0250		0.486	0.5000	0	97.3	80	120	08/31/2023
Cadmium		0.0010		0.0472	0.0500	0	94.3	80	120	08/31/2023
Chromium		0.0015		0.193	0.2000	0	96.4	80	120	08/31/2023
Cobalt		0.0010		0.480	0.5000	0	96.1	80	120	08/31/2023
Copper		0.0010		0.240	0.2500	0	95.9	80	120	08/31/2023
Iron		0.0250		1.90	2.000	0	95.1	80	120	08/31/2023
Lead		0.0010		0.508	0.5000	0	101.7	80	120	09/10/2023
Manganese		0.0020		0.475	0.5000	0	95.0	80	120	08/31/2023
Molybdenum	*	0.0015		0.452	0.5000	0	90.4	80	120	08/31/2023
Nickel		0.0010		0.479	0.5000	0	95.8	80	120	08/31/2023
Selenium		0.0010		0.444	0.5000	0	88.8	80	120	08/31/2023
Silver		0.0010		0.0525	0.0500	0	104.9	80	120	08/31/2023
Thallium		0.0020		0.231	0.2500	0	92.5	80	120	08/31/2023
Vanadium		0.0050		0.481	0.5000	0	96.3	80	120	08/31/2023
Zinc		0.0150		0.509	0.5000	0	101.8	80	120	09/10/2023

Batch 210825 SampType: MS Units mg/L

SampID: 23071810-082DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.03	2.000	0.02870	100.2	75	125	09/11/2023
Arsenic		0.0010		0.519	0.5000	0.002896	103.3	75	125	09/11/2023
Boron		0.0250		0.601	0.5000	0.1410	91.9	75	125	09/11/2023
Copper		0.0010		0.232	0.2500	0.001679	91.9	75	125	09/11/2023
Iron		0.0250		2.87	2.000	0.8198	102.4	75	125	09/11/2023
Lead		0.0010		0.544	0.5000	0	108.9	75	125	09/11/2023
Manganese		0.0020		4.40	0.5000	3.878	105.4	75	125	09/11/2023
Nickel		0.0010		0.477	0.5000	0.003421	94.7	75	125	09/11/2023
Silver		0.0010		0.0541	0.0500	0	108.1	75	125	09/11/2023
Vanadium		0.0050		0.472	0.5000	0	94.5	75	125	09/01/2023
Zinc		0.0150		0.501	0.5000	0	100.1	75	125	09/11/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210825		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 23071810-082DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		2.01	2.000	0.02870	99.2	2.032	0.96	09/11/2023
Arsenic		0.0010		0.507	0.5000	0.002896	100.9	0.5195	2.40	09/11/2023
Boron		0.0250		0.598	0.5000	0.1410	91.5	0.6006	0.36	09/11/2023
Copper		0.0010		0.228	0.2500	0.001679	90.6	0.2316	1.42	09/11/2023
Iron		0.0250		2.84	2.000	0.8198	100.8	2.869	1.18	09/11/2023
Lead		0.0010		0.538	0.5000	0	107.5	0.5443	1.21	09/11/2023
Manganese		0.0020		4.40	0.5000	3.878	104.7	4.405	0.09	09/11/2023
Nickel		0.0010		0.474	0.5000	0.003421	94.2	0.4770	0.59	09/11/2023
Silver		0.0010		0.0527	0.0500	0	105.4	0.05405	2.51	09/11/2023
Vanadium		0.0050		0.454	0.5000	0	90.7	0.4724	4.07	09/01/2023
Zinc		0.0150		0.493	0.5000	0	98.7	0.5006	1.48	09/11/2023

Batch 210902		SampType: MBLK		Units mg/L						
SampID: MBLK-210902										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/14/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/14/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/14/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/14/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/14/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/14/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/14/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/14/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/14/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/14/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/14/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/14/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/14/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/14/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/01/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210902 SampType: LCS Units mg/L

SampID: LCS-210902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.94	2.000	0	96.9	80	120	09/14/2023
Antimony		0.0010		0.462	0.5000	0	92.3	80	120	09/01/2023
Arsenic		0.0010		0.543	0.5000	0	108.7	80	120	09/14/2023
Arsenic		0.0010		0.528	0.5000	0	105.7	80	120	09/14/2023
Barium		0.0010		2.27	2.000	0	113.3	80	120	09/14/2023
Beryllium		0.0010		0.0497	0.0500	0	99.5	80	120	09/14/2023
Boron		0.0250		0.475	0.5000	0	95.0	80	120	09/14/2023
Cadmium		0.0010		0.0514	0.0500	0	102.7	80	120	09/14/2023
Chromium		0.0015		0.209	0.2000	0	104.5	80	120	09/14/2023
Cobalt		0.0010		0.486	0.5000	0	97.2	80	120	09/01/2023
Copper		0.0010		0.256	0.2500	0	102.5	80	120	09/14/2023
Iron		0.0250		2.08	2.000	0	103.8	80	120	09/14/2023
Lead		0.0010		0.535	0.5000	0	106.9	80	120	09/14/2023
Manganese		0.0020		0.539	0.5000	0	107.7	80	120	09/14/2023
Molybdenum	*	0.0015		0.499	0.5000	0	99.7	80	120	09/14/2023
Nickel		0.0010		0.510	0.5000	0	102.0	80	120	09/14/2023
Selenium		0.0010		0.447	0.5000	0	89.4	80	120	09/01/2023
Silver		0.0010		0.0482	0.0500	0	96.3	80	120	09/14/2023
Thallium		0.0020		0.231	0.2500	0	92.3	80	120	09/01/2023
Vanadium		0.0050		0.462	0.5000	0	92.4	80	120	09/01/2023
Zinc		0.0150		0.491	0.5000	0	98.3	80	120	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210902 SampType: MS

Units mg/L

SampleID: 23071810-028DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.92	2.000	0.01577	95.2	75	125	09/14/2023
Antimony		0.0010		0.462	0.5000	0	92.4	75	125	09/01/2023
Arsenic		0.0010		0.544	0.5000	0	108.8	75	125	09/14/2023
Barium		0.0010		2.28	2.000	0.1003	108.9	75	125	09/14/2023
Beryllium		0.0010		0.0492	0.0500	0	98.4	75	125	09/14/2023
Boron		0.0250		0.503	0.5000	0	100.6	75	125	09/14/2023
Cadmium		0.0010		0.0496	0.0500	0	99.3	75	125	09/14/2023
Chromium		0.0015		0.209	0.2000	0.0009832	103.9	75	125	09/14/2023
Cobalt		0.0010		0.472	0.5000	0	94.3	75	125	09/01/2023
Copper		0.0010		0.256	0.2500	0.001184	101.9	75	125	09/14/2023
Iron		0.0250		2.08	2.000	0.02414	102.7	75	125	09/14/2023
Lead		0.0010		0.531	0.5000	0	106.3	75	125	09/14/2023
Manganese		0.0020		0.544	0.5000	0.004646	107.8	75	125	09/14/2023
Molybdenum	*	0.0015		0.500	0.5000	0.0007224	99.9	75	125	09/14/2023
Nickel		0.0010		0.509	0.5000	0.0004698	101.7	75	125	09/14/2023
Selenium		0.0010		0.456	0.5000	0.002674	90.7	75	125	09/01/2023
Silver		0.0010		0.0467	0.0500	0	93.4	75	125	09/14/2023
Thallium		0.0020		0.226	0.2500	0	90.4	75	125	09/01/2023
Vanadium		0.0050		0.454	0.5000	0	90.8	75	125	09/01/2023
Zinc		0.0150		0.487	0.5000	0	97.4	75	125	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	SampType:	MSD	Units mg/L			RPD Limit 20				
SampID: 23071810-028DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.85	2.000	0.01577	91.8	1.920	3.67	09/14/2023
Antimony		0.0010		0.473	0.5000	0	94.6	0.4621	2.31	09/01/2023
Arsenic		0.0010		0.541	0.5000	0	108.1	0.5438	0.58	09/14/2023
Barium		0.0010		2.25	2.000	0.1003	107.6	2.279	1.16	09/14/2023
Beryllium		0.0010		0.0482	0.0500	0	96.3	0.04919	2.14	09/14/2023
Boron		0.0250		0.489	0.5000	0	97.7	0.5032	2.95	09/14/2023
Cadmium		0.0010		0.0494	0.0500	0	98.7	0.04963	0.52	09/14/2023
Chromium		0.0015		0.204	0.2000	0.0009832	101.3	0.2087	2.45	09/14/2023
Cobalt		0.0010		0.444	0.5000	0	88.9	0.4716	5.97	09/01/2023
Copper		0.0010		0.248	0.2500	0.001184	98.7	0.2559	3.20	09/14/2023
Iron		0.0250		2.03	2.000	0.02414	100.3	2.078	2.29	09/14/2023
Lead		0.0010		0.522	0.5000	0	104.4	0.5314	1.78	09/14/2023
Manganese		0.0020		0.527	0.5000	0.004646	104.4	0.5436	3.18	09/14/2023
Molybdenum	*	0.0015		0.494	0.5000	0.0007224	98.7	0.5001	1.15	09/14/2023
Nickel		0.0010		0.495	0.5000	0.0004698	98.9	0.5092	2.85	09/14/2023
Selenium		0.0010		0.456	0.5000	0.002674	90.6	0.4561	0.10	09/01/2023
Silver		0.0010		0.0462	0.0500	0	92.4	0.04668	0.99	09/14/2023
Thallium		0.0020		0.227	0.2500	0	91.0	0.2261	0.63	09/01/2023
Vanadium		0.0050		0.453	0.5000	0	90.7	0.4539	0.11	09/01/2023
Zinc		0.0150		0.482	0.5000	0	96.4	0.4869	0.98	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210902 SampType: MS

Units mg/L

SampID: 23071810-030DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.84	2.000	0	92.1	75	125	09/14/2023
Antimony		0.0010		0.469	0.5000	0	93.8	75	125	09/01/2023
Arsenic		0.0010		0.527	0.5000	0	105.4	75	125	09/14/2023
Barium		0.0010		2.18	2.000	0.04935	106.7	75	125	09/14/2023
Beryllium		0.0010		0.0485	0.0500	0	97.1	75	125	09/14/2023
Boron		0.0250		0.488	0.5000	0	97.6	75	125	09/14/2023
Cadmium		0.0010		0.0496	0.0500	0	99.2	75	125	09/14/2023
Chromium		0.0015		0.206	0.2000	0.0007224	102.6	75	125	09/14/2023
Cobalt		0.0010		0.417	0.5000	0	83.3	75	125	09/01/2023
Copper		0.0010		0.254	0.2500	0.001428	101.1	75	125	09/14/2023
Iron		0.0250		2.05	2.000	0.01838	101.6	75	125	09/14/2023
Lead		0.0010		0.528	0.5000	0	105.7	75	125	09/14/2023
Manganese		0.0020		0.534	0.5000	0.003166	106.1	75	125	09/14/2023
Molybdenum	*	0.0015		0.505	0.5000	0	101.1	75	125	09/14/2023
Nickel		0.0010		0.504	0.5000	0	100.8	75	125	09/14/2023
Selenium		0.0010		0.441	0.5000	0	88.2	75	125	09/01/2023
Silver		0.0010		0.0467	0.0500	0	93.3	75	125	09/14/2023
Thallium		0.0020		0.226	0.2500	0	90.4	75	125	09/01/2023
Vanadium		0.0050		0.447	0.5000	0	89.4	75	125	09/01/2023
Zinc		0.0150		0.466	0.5000	0	93.3	75	125	09/14/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.81	2.000	0	90.6	1.842	1.62	09/14/2023
Antimony		0.0010		0.473	0.5000	0	94.6	0.4692	0.85	09/01/2023
Arsenic		0.0010		0.519	0.5000	0	103.8	0.5268	1.46	09/14/2023
Barium		0.0010		2.12	2.000	0.04935	103.5	2.183	2.94	09/14/2023
Beryllium		0.0010		0.0480	0.0500	0	96.0	0.04854	1.11	09/14/2023
Boron		0.0250		0.499	0.5000	0	99.8	0.4879	2.23	09/14/2023
Cadmium		0.0010		0.0478	0.0500	0	95.7	0.04958	3.59	09/14/2023
Chromium		0.0015		0.202	0.2000	0.0007224	100.7	0.2059	1.90	09/14/2023
Cobalt		0.0010		0.415	0.5000	0	82.9	0.4166	0.46	09/01/2023
Copper		0.0010		0.241	0.2500	0.001428	95.9	0.2541	5.26	09/14/2023
Iron		0.0250		1.98	2.000	0.01838	98.3	2.051	3.30	09/14/2023
Lead		0.0010		0.509	0.5000	0	101.8	0.5284	3.72	09/14/2023
Manganese		0.0020		0.512	0.5000	0.003166	101.7	0.5335	4.15	09/14/2023
Molybdenum	*	0.0015		0.490	0.5000	0	98.0	0.5054	3.11	09/14/2023
Nickel		0.0010		0.486	0.5000	0	97.2	0.5040	3.68	09/14/2023
Selenium		0.0010		0.438	0.5000	0	87.7	0.4408	0.58	09/01/2023
Silver		0.0010		0.0449	0.0500	0	89.9	0.04667	3.77	09/14/2023
Thallium		0.0020		0.222	0.2500	0	88.7	0.2261	1.96	09/01/2023
Vanadium		0.0050		0.445	0.5000	0	89.0	0.4468	0.44	09/01/2023
Zinc		0.0150		0.457	0.5000	0	91.4	0.4664	2.07	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210928 SampType: MBLK Units mg/L

SampID: MBLK-210928

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/08/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/08/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/08/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/08/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/08/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/08/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/08/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/08/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/08/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/08/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/08/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/08/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/08/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/08/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/08/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/01/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	09/08/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210928		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210928											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		2.07	2.000	0	103.3	80	120	09/08/2023	
Antimony		0.0010		0.450	0.5000	0	90.1	80	120	09/01/2023	
Arsenic		0.0010		0.495	0.5000	0	99.1	80	120	09/08/2023	
Barium		0.0010		2.33	2.000	0	116.5	80	120	09/08/2023	
Beryllium		0.0010		0.0461	0.0500	0	92.3	80	120	09/08/2023	
Boron		0.0250		0.484	0.5000	0	96.7	80	120	09/08/2023	
Cadmium		0.0010		0.0492	0.0500	0	98.5	80	120	09/08/2023	
Chromium		0.0015		0.196	0.2000	0	98.1	80	120	09/08/2023	
Cobalt		0.0010		0.477	0.5000	0	95.4	80	120	09/01/2023	
Copper		0.0010		0.265	0.2500	0	106.2	80	120	09/08/2023	
Iron		0.0250		1.98	2.000	0	98.9	80	120	09/08/2023	
Lead		0.0010		0.503	0.5000	0	100.6	80	120	09/08/2023	
Manganese		0.0020		0.506	0.5000	0	101.1	80	120	09/08/2023	
Molybdenum	*	0.0015		0.499	0.5000	0	99.9	80	120	09/08/2023	
Nickel		0.0010		0.527	0.5000	0	105.3	80	120	09/08/2023	
Selenium		0.0010		0.443	0.5000	0	88.6	80	120	09/01/2023	
Silver		0.0010		0.0525	0.0500	0	105.1	80	120	09/08/2023	
Thallium		0.0020		0.227	0.2500	0	91.0	80	120	09/01/2023	
Vanadium		0.0050		0.451	0.5000	0	90.1	80	120	09/01/2023	
Zinc		0.0150		0.413	0.5000	0	82.6	80	120	09/08/2023	

Batch 210928		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-094DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.98	2.000	0.1910	89.3	75	125	09/13/2023	
Iron		0.0250		2.00	2.000	0	99.9	75	125	09/13/2023	
Manganese		0.0400	S	6.89	0.5000	6.769	24.2	75	125	09/13/2023	

Batch 210928		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-094DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		0.0250		2.00	2.000	0.1910	90.2	1.977	0.93	09/13/2023		
Iron		0.0250		1.97	2.000	0	98.7	1.999	1.26	09/13/2023		
Manganese		0.0400	S	7.01	0.5000	6.769	48.1	6.890	1.71	09/13/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210770 SampType: MBLK Units mg/L

SampID: MBLK-210770

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/22/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/22/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/23/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/22/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/22/2023
Boron	*	0.0250		< 0.0250	0.0093	0	0	-100	100	08/22/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/22/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/23/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/23/2023
Copper		0.0010	S	0.0025	0.0003	0	837.0	-100	100	08/29/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/23/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/22/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/23/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/23/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/22/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/22/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/22/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/22/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/26/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/23/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/22/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210770		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210770											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.92	2.000	0	96.1	85	115	08/22/2023	
Antimony		0.0010		0.538	0.5000	0	107.6	85	115	08/22/2023	
Arsenic		0.0010		0.552	0.5000	0	110.5	85	115	08/23/2023	
Barium		0.0010		2.20	2.000	0	110.2	85	115	08/22/2023	
Beryllium		0.0010		0.0495	0.0500	0	99.1	85	115	08/22/2023	
Boron	*	0.0250		0.502	0.5000	0	100.3	85	115	08/22/2023	
Cadmium		0.0010		0.0521	0.0500	0	104.2	85	115	08/22/2023	
Chromium		0.0015		0.197	0.2000	0	98.5	85	115	08/23/2023	
Cobalt		0.0010		0.516	0.5000	0	103.2	85	115	08/23/2023	
Copper		0.0010	B	0.276	0.2500	0	110.4	85	115	08/29/2023	
Iron	*	0.0250		1.94	2.000	0	96.8	85	115	08/23/2023	
Lead		0.0010		0.532	0.5000	0	106.4	85	115	08/22/2023	
Lithium	*	0.0030		0.469	0.5000	0	93.9	85	115	08/23/2023	
Manganese		0.0020		0.502	0.5000	0	100.5	85	115	08/23/2023	
Molybdenum	*	0.0015		0.489	0.5000	0	97.7	85	115	08/22/2023	
Nickel		0.0010		0.529	0.5000	0	105.9	85	115	08/22/2023	
Selenium		0.0010		0.524	0.5000	0	104.8	85	115	08/22/2023	
Thallium		0.0020		0.263	0.2500	0	105.3	85	115	08/26/2023	
Vanadium		0.0050		0.507	0.5000	0	101.4	85	115	08/23/2023	
Zinc		0.0150		0.508	0.5000	0	101.5	85	115	08/22/2023	

Batch 210770		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-009CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0250		0.548	0.5000	0.01338	106.9	75	125	09/13/2023	

Batch 210770		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-009CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		0.0250		0.555	0.5000	0.01338	108.2	0.5478	1.23	09/13/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210785		SampType: MBLK		Units mg/L						
SampID: MBLK-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/16/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/16/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/16/2023

Batch 210785		SampType: LCS		Units mg/L						
SampID: LCS-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		0.481	0.5000	0	96.3	80	120	09/10/2023
Copper		0.0010		0.274	0.2500	0	109.4	85	115	08/16/2023
Iron	*	0.0250		2.08	2.000	0	104.0	85	115	08/16/2023
Manganese		0.0020		0.505	0.5000	0	101.1	85	115	08/16/2023

Batch 210785		SampType: LCSD		Units mg/L							RPD Limit 20
SampID: LCSD-210785											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron		0.0250		0.465	0.5000	0	92.9	0.4813	3.53	09/11/2023	
Copper		0.0010		0.262	0.2500	0	104.9	0.2736	4.28	08/16/2023	
Iron	*	0.0250		2.07	2.000	0	103.3	2.079	0.65	08/16/2023	
Manganese		0.0020		0.499	0.5000	0	99.7	0.5054	1.35	08/16/2023	

Batch 210785		SampType: MS		Units mg/L						
SampID: 23071810-012CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		0.483	0.5000	0	96.6	75	125	09/11/2023

Batch 210785		SampType: MSD		Units mg/L							RPD Limit 20
SampID: 23071810-012CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron		0.0250		0.489	0.5000	0	97.9	0.4832	1.29	09/11/2023	

Batch 210785		SampType: MS		Units mg/L						
SampID: 23071810-017CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		0.481	0.5000	0	96.2	75	125	09/11/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-017CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Boron		0.0250		0.480	0.5000	0	96.0	0.4808	0.12	09/11/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210812 SampType: MBLK Units mg/L

SampID: MBLK-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023
Beryllium		0.0010		< 0.0010	0.0003	0	0	-100	100	08/30/2023
Boron	*	0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/29/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/29/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/30/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Copper		0.0010	S	0.0010	0.0003	0	345.1	-100	100	08/29/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/29/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/30/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/29/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/29/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/29/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/29/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210812 SampType: LCS Units mg/L

SampID: LCS-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.80	2.000	0	90.1	85	115	08/30/2023
Antimony		0.0010		0.507	0.5000	0	101.4	85	115	08/30/2023
Antimony		0.0010		0.516	0.5000	0	103.3	85	115	08/30/2023
Arsenic		0.0010		0.528	0.5000	0	105.6	85	115	08/30/2023
Arsenic		0.0010		0.532	0.5000	0	106.5	85	115	08/30/2023
Barium		0.0010		2.07	2.000	0	103.5	85	115	08/30/2023
Beryllium		0.0010		0.0486	0.0500	0	97.2	85	115	08/30/2023
Boron	*	0.0250		0.512	0.5000	0	102.4	85	115	08/30/2023
Cadmium		0.0010		0.0509	0.0500	0	101.7	85	115	08/30/2023
Cadmium		0.0010		0.0498	0.0500	0	99.6	85	115	08/30/2023
Chromium		0.0015		0.203	0.2000	0	101.3	85	115	08/30/2023
Chromium		0.0015		0.212	0.2000	0	105.9	85	115	08/30/2023
Cobalt		0.0010		0.524	0.5000	0	104.7	85	115	08/30/2023
Copper		0.0010	B	0.263	0.2500	0	105.0	85	115	08/30/2023
Iron	*	0.0250		2.01	2.000	0	100.6	85	115	08/30/2023
Iron	*	0.0250		2.09	2.000	0	104.5	85	115	08/30/2023
Lead		0.0010		0.475	0.5000	0	95.0	85	115	08/30/2023
Lead		0.0010		0.515	0.5000	0	102.9	85	115	08/30/2023
Lithium	*	0.0030		0.512	0.5000	0	102.5	85	115	08/30/2023
Manganese		0.0020		0.513	0.5000	0	102.6	85	115	08/30/2023
Molybdenum	*	0.0015		0.505	0.5000	0	101.1	85	115	08/30/2023
Molybdenum	*	0.0015		0.499	0.5000	0	99.7	85	115	08/30/2023
Nickel		0.0010		0.531	0.5000	0	106.2	85	115	08/30/2023
Nickel		0.0010		0.504	0.5000	0	100.7	85	115	08/30/2023
Selenium		0.0010		0.477	0.5000	0	95.4	85	115	08/30/2023
Selenium		0.0010		0.491	0.5000	0	98.1	85	115	08/30/2023
Silver		0.0010	S	0.0579	0.0500	0	115.7	85	115	08/30/2023
Thallium		0.0020		0.251	0.2500	0	100.6	85	115	08/30/2023
Vanadium		0.0050		0.512	0.5000	0	102.5	85	115	08/30/2023
Vanadium		0.0050		0.507	0.5000	0	101.4	85	115	08/30/2023
Zinc		0.0150		0.453	0.5000	0	90.5	85	115	08/30/2023
Zinc		0.0150		0.475	0.5000	0	94.9	85	115	08/30/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210812		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-101CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0250		0.483	0.5000	0.01088	94.3	75	125	09/11/2023	

Batch 210812		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-101CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		0.0250		0.480	0.5000	0.01088	93.8	0.4825	0.58	09/11/2023		

Batch 210813		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210813											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/31/2023	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/07/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/31/2023	
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/31/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/31/2023	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/31/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/31/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023	
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/31/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/31/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/31/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/31/2023	
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/31/2023	
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	09/07/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210813 SampType: LCS Units mg/L

SampID: LCS-210813

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.99	2.000	0	99.4	80	120	08/31/2023
Antimony		0.0010		0.540	0.5000	0	107.9	80	120	08/31/2023
Arsenic		0.0010		0.513	0.5000	0	102.5	80	120	08/31/2023
Barium		0.0010		2.36	2.000	0	117.8	80	120	09/07/2023
Beryllium		0.0010		0.0498	0.0500	0	99.7	80	120	08/31/2023
Boron		0.0250		0.510	0.5000	0	101.9	80	120	08/31/2023
Cadmium		0.0010		0.0506	0.0500	0	101.1	80	120	08/31/2023
Chromium		0.0015		0.199	0.2000	0	99.7	80	120	08/31/2023
Cobalt		0.0010		0.495	0.5000	0	99.1	80	120	08/31/2023
Copper		0.0010		0.250	0.2500	0	100.0	80	120	08/31/2023
Iron		0.0250		1.98	2.000	0	99.0	80	120	08/31/2023
Lead		0.0010		0.508	0.5000	0	101.6	80	120	08/31/2023
Lithium	*	0.0030		0.519	0.5000	0	103.9	80	120	08/31/2023
Manganese		0.0020		0.493	0.5000	0	98.6	80	120	08/31/2023
Molybdenum	*	0.0015		0.482	0.5000	0	96.5	80	120	08/31/2023
Nickel		0.0010		0.497	0.5000	0	99.4	80	120	08/31/2023
Selenium		0.0010		0.467	0.5000	0	93.5	80	120	08/31/2023
Silver		0.0010		0.0563	0.0500	0	112.6	80	120	08/31/2023
Thallium		0.0020		0.247	0.2500	0	98.8	80	120	08/31/2023
Vanadium		0.0050		0.497	0.5000	0	99.5	80	120	08/31/2023
Zinc		0.0150		0.421	0.5000	0	84.2	80	120	09/07/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210813		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-082CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.564	0.5000	0	112.9	75	125	09/01/2023	
Arsenic		0.0010		0.531	0.5000	0.002037	105.9	75	125	09/01/2023	
Beryllium		0.0010		0.0509	0.0500	0.0003377	101.0	75	125	09/01/2023	
Boron		0.0250		0.655	0.5000	0.1486	101.2	75	125	09/01/2023	
Cadmium		0.0010		0.0509	0.0500	0	101.8	75	125	09/01/2023	
Chromium		0.0015		0.198	0.2000	0	98.8	75	125	09/01/2023	
Cobalt		0.0010		0.486	0.5000	0.003099	96.6	75	125	09/01/2023	
Lead		0.0010		0.556	0.5000	0	111.1	75	125	09/08/2023	
Lithium	*	0.0030		0.535	0.5000	0.009555	105.0	75	125	09/01/2023	
Molybdenum	*	0.0015		0.493	0.5000	0	98.6	75	125	09/01/2023	
Selenium		0.0010		0.470	0.5000	0	94.0	75	125	09/01/2023	
Thallium		0.0020		0.248	0.2500	0	99.2	75	125	09/01/2023	

Batch 210813		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-082CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		0.550	0.5000	0	110.0	0.5643	2.57	09/01/2023		
Arsenic		0.0010		0.535	0.5000	0.002037	106.6	0.5314	0.74	09/01/2023		
Beryllium		0.0010		0.0515	0.0500	0.0003377	102.4	0.05086	1.30	09/01/2023		
Boron		0.0250		0.665	0.5000	0.1486	103.3	0.6546	1.57	09/01/2023		
Cadmium		0.0010		0.0506	0.0500	0	101.2	0.05088	0.51	09/01/2023		
Chromium		0.0015		0.201	0.2000	0	100.7	0.1975	1.91	09/01/2023		
Cobalt		0.0010		0.497	0.5000	0.003099	98.8	0.4863	2.24	09/01/2023		
Lead		0.0010		0.562	0.5000	0	112.5	0.5557	1.21	09/08/2023		
Lithium	*	0.0030		0.534	0.5000	0.009555	105.0	0.5346	0.04	09/01/2023		
Molybdenum	*	0.0015		0.499	0.5000	0	99.7	0.4928	1.18	09/01/2023		
Selenium		0.0010		0.478	0.5000	0	95.6	0.4700	1.66	09/01/2023		
Thallium		0.0020		0.251	0.2500	0	100.3	0.2480	1.06	09/01/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210813		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-083CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.593	0.5000	0	118.6	75	125	09/01/2023	
Arsenic		0.0010		0.519	0.5000	0.0004430	103.6	75	125	09/01/2023	
Beryllium		0.0010		0.0544	0.0500	0	108.7	75	125	09/01/2023	
Boron		0.0250		0.645	0.5000	0.1544	98.1	75	125	09/01/2023	
Cadmium		0.0010		0.0540	0.0500	0	107.9	75	125	09/01/2023	
Chromium		0.0015		0.200	0.2000	0	99.8	75	125	09/01/2023	
Cobalt		0.0010		0.482	0.5000	0.0005448	96.3	75	125	09/01/2023	
Lead		0.0010		0.554	0.5000	0	110.8	75	125	09/08/2023	
Lithium	*	0.0030		0.556	0.5000	0.01277	108.6	75	125	09/01/2023	
Molybdenum	*	0.0015		0.515	0.5000	0.001624	102.6	75	125	09/01/2023	
Selenium		0.0010		0.465	0.5000	0.001508	92.7	75	125	09/01/2023	
Thallium		0.0020		0.252	0.2500	0.001437	100.2	75	125	09/01/2023	

Batch 210813		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-083CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		0.624	0.5000	0	124.8	0.5931	5.08	09/01/2023		
Arsenic		0.0010		0.557	0.5000	0.0004430	111.3	0.5186	7.16	09/01/2023		
Beryllium		0.0010		0.0548	0.0500	0	109.6	0.05435	0.81	09/01/2023		
Boron		0.0250		0.664	0.5000	0.1544	101.8	0.6450	2.84	09/01/2023		
Cadmium		0.0010		0.0576	0.0500	0	115.2	0.05396	6.54	09/01/2023		
Chromium		0.0015		0.206	0.2000	0	103.0	0.1996	3.17	09/01/2023		
Cobalt		0.0010		0.510	0.5000	0.0005448	102.0	0.4821	5.70	09/01/2023		
Lead		0.0010		0.559	0.5000	0	111.8	0.5538	0.90	09/08/2023		
Lithium	*	0.0030		0.560	0.5000	0.01277	109.5	0.5560	0.74	09/01/2023		
Molybdenum	*	0.0015		0.537	0.5000	0.001624	107.2	0.5145	4.36	09/01/2023		
Selenium		0.0010		0.495	0.5000	0.001508	98.6	0.4652	6.11	09/01/2023		
Thallium		0.0020		0.261	0.2500	0.001437	103.8	0.2520	3.51	09/01/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210826 SampType: MBLK Units mg/L

SampleID: MBLK-210826

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/01/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/07/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/01/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/01/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/01/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/01/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/01/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/07/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/01/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/01/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/01/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210826		SampType: LCS		Units mg/L							
SampID: LCS-210826											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		2.07	2.000	0	103.6	80	120	09/01/2023	
Antimony		0.0010		0.565	0.5000	0	112.9	80	120	09/01/2023	
Arsenic		0.0010		0.549	0.5000	0	109.8	80	120	09/01/2023	
Barium		0.0010		2.32	2.000	0	116.1	80	120	09/08/2023	
Beryllium		0.0010		0.0524	0.0500	0	104.8	80	120	09/01/2023	
Boron		0.0250		0.525	0.5000	0	104.9	80	120	09/01/2023	
Cadmium		0.0010		0.0528	0.0500	0	105.7	80	120	09/01/2023	
Chromium		0.0015		0.205	0.2000	0	102.7	80	120	09/01/2023	
Cobalt		0.0010		0.511	0.5000	0	102.1	80	120	09/01/2023	
Iron		0.0250		2.04	2.000	0	102.0	80	120	09/01/2023	
Lead		0.0010		0.572	0.5000	0	114.5	80	120	09/07/2023	
Lithium	*	0.0030		0.545	0.5000	0	109.0	80	120	09/01/2023	
Manganese		0.0020		0.522	0.5000	0	104.3	80	120	09/01/2023	
Molybdenum	*	0.0015		0.510	0.5000	0	102.0	80	120	09/01/2023	
Selenium		0.0010		0.497	0.5000	0	99.4	80	120	09/01/2023	
Thallium		0.0020		0.250	0.2500	0	100.1	80	120	09/01/2023	

Batch 210826		SampType: MS		Units mg/L							
SampID: 23071810-105CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		2.18	2.000	0.1244	102.7	75	125	09/01/2023	
Antimony		0.0010		0.544	0.5000	0	108.7	75	125	09/01/2023	
Arsenic		0.0010		0.531	0.5000	0.002203	105.8	75	125	09/01/2023	
Barium		0.0010		2.39	2.000	0.1183	113.5	75	125	09/08/2023	
Beryllium		0.0010		0.0527	0.0500	0	105.4	75	125	09/01/2023	
Boron		0.0250		2.48	0.5000	1.917	111.9	75	125	09/01/2023	
Cadmium		0.0010		0.0508	0.0500	0	101.5	75	125	09/01/2023	
Chromium		0.0015		0.202	0.2000	0	101.2	75	125	09/01/2023	
Cobalt		0.0010		0.504	0.5000	0.0001336	100.7	75	125	09/01/2023	
Iron		0.0250		3.28	2.000	1.210	103.7	75	125	09/01/2023	
Lead		0.0010		0.575	0.5000	0	115.0	75	125	09/07/2023	
Lithium	*	0.0030		0.587	0.5000	0.05368	106.7	75	125	09/01/2023	
Manganese		0.0020		0.592	0.5000	0.09027	100.4	75	125	09/01/2023	
Molybdenum	*	0.0015		0.517	0.5000	0.02080	99.3	75	125	09/01/2023	
Selenium		0.0010		0.477	0.5000	0	95.4	75	125	09/01/2023	
Thallium		0.0020		0.252	0.2500	0	100.9	75	125	09/01/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	SampType	MSD	Units mg/L							RPD Limit	
SampID: 23071810-105CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		0.0250		2.13	2.000	0.1244	100.1	2.178	2.44	09/01/2023	
Antimony		0.0010		0.549	0.5000	0	109.9	0.5436	1.05	09/01/2023	
Arsenic		0.0010		0.525	0.5000	0.002203	104.6	0.5313	1.15	09/01/2023	
Barium		0.0010		2.43	2.000	0.1183	115.7	2.388	1.84	09/08/2023	
Beryllium		0.0010		0.0501	0.0500	0	100.2	0.05272	5.10	09/01/2023	
Boron		0.0250		2.42	0.5000	1.917	99.6	2.477	2.52	09/01/2023	
Cadmium		0.0010		0.0513	0.0500	0	102.6	0.05076	1.02	09/01/2023	
Chromium		0.0015		0.198	0.2000	0	99.2	0.2025	2.08	09/01/2023	
Cobalt		0.0010		0.492	0.5000	0.0001336	98.4	0.5036	2.26	09/01/2023	
Iron		0.0250		3.16	2.000	1.210	97.7	3.284	3.70	09/01/2023	
Lead		0.0010		0.557	0.5000	0	111.5	0.5750	3.12	09/07/2023	
Lithium	*	0.0030		0.583	0.5000	0.05368	105.8	0.5874	0.82	09/01/2023	
Manganese		0.0020		0.581	0.5000	0.09027	98.2	0.5921	1.88	09/01/2023	
Molybdenum	*	0.0015		0.520	0.5000	0.02080	99.9	0.5172	0.55	09/01/2023	
Selenium		0.0010		0.470	0.5000	0	94.0	0.4770	1.50	09/01/2023	
Thallium		0.0020		0.254	0.2500	0	101.7	0.2522	0.86	09/01/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210901 SampType: MBLK Units mg/L

SampID: MBLK-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/01/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/07/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/01/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/01/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/01/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/01/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/01/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/07/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/01/2023
Manganese		0.0020	S	0.0124	0.0008	0	1659	-100	100	09/01/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/01/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/01/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	09/01/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210901 SampType: LCS Units mg/L

SampID: LCS-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.10	2.000	0	105.1	80	120	09/01/2023
Antimony		0.0010		0.563	0.5000	0	112.6	80	120	09/01/2023
Arsenic		0.0010		0.522	0.5000	0	104.3	80	120	09/01/2023
Barium		0.0010		2.19	2.000	0	109.6	80	120	09/08/2023
Beryllium		0.0010		0.0522	0.0500	0	104.4	80	120	09/01/2023
Boron		0.0250		0.520	0.5000	0	103.9	80	120	09/01/2023
Cadmium		0.0010		0.0521	0.0500	0	104.3	80	120	09/01/2023
Chromium		0.0015		0.202	0.2000	0	101.2	80	120	09/01/2023
Cobalt		0.0010		0.501	0.5000	0	100.2	80	120	09/01/2023
Copper		0.0010		0.245	0.2500	0	98.0	80	120	09/01/2023
Iron		0.0250		2.00	2.000	0	100.0	80	120	09/01/2023
Lead		0.0010		0.514	0.5000	0	102.8	80	120	09/07/2023
Lithium	*	0.0030		0.540	0.5000	0	108.0	80	120	09/01/2023
Manganese		0.0020	B	0.504	0.5000	0	100.9	80	120	09/01/2023
Manganese		0.0020	B	0.519	0.5000	0	103.8	80	120	09/08/2023
Molybdenum	*	0.0015		0.485	0.5000	0	97.0	80	120	09/01/2023
Nickel		0.0010		0.497	0.5000	0	99.5	80	120	09/01/2023
Selenium		0.0010		0.468	0.5000	0	93.5	80	120	09/01/2023
Silver		0.0010		0.0561	0.0500	0	112.1	80	120	09/01/2023
Thallium		0.0020		0.251	0.2500	0	100.3	80	120	09/01/2023
Vanadium		0.0050		0.513	0.5000	0	102.7	80	120	09/01/2023
Zinc		0.0150		0.505	0.5000	0	101.0	80	120	09/01/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210901 SampType: MS Units mg/L

SampID: 23071810-028CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.13	2.000	0.01360	105.7	75	125	09/01/2023
Antimony		0.0010		0.558	0.5000	0	111.5	75	125	09/01/2023
Arsenic		0.0010		0.533	0.5000	0	106.7	75	125	09/01/2023
Beryllium		0.0010		0.0540	0.0500	0	107.9	75	125	09/01/2023
Boron		0.0250		0.552	0.5000	0.01171	108.0	75	125	09/01/2023
Cadmium		0.0010		0.0519	0.0500	0	103.7	75	125	09/01/2023
Chromium		0.0015		0.205	0.2000	0.0008107	102.2	75	125	09/01/2023
Cobalt		0.0010		0.513	0.5000	0	102.7	75	125	09/01/2023
Copper		0.0010		0.250	0.2500	0.001259	99.5	75	125	09/01/2023
Iron		0.0250		2.08	2.000	0.04023	101.9	75	125	09/01/2023
Lead		0.0010		0.539	0.5000	0	107.8	75	125	09/07/2023
Molybdenum	*	0.0015		0.511	0.5000	0.0007056	102.1	75	125	09/01/2023
Nickel		0.0010		0.507	0.5000	0.0004437	101.3	75	125	09/01/2023
Selenium		0.0010		0.482	0.5000	0.002385	95.9	75	125	09/01/2023
Silver		0.0010		0.0570	0.0500	0	113.9	75	125	09/01/2023
Thallium		0.0020		0.253	0.2500	0	101.2	75	125	09/01/2023
Vanadium		0.0050		0.515	0.5000	0	103.0	75	125	09/01/2023
Zinc		0.0150		0.519	0.5000	0	103.8	75	125	09/01/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		2.07	2.000	0.01360	103.0	2.127	2.49	09/01/2023
Antimony		0.0010		0.552	0.5000	0	110.3	0.5576	1.07	09/01/2023
Arsenic		0.0010		0.525	0.5000	0	105.0	0.5333	1.59	09/01/2023
Beryllium		0.0010		0.0527	0.0500	0	105.4	0.05397	2.37	09/01/2023
Boron		0.0250		0.536	0.5000	0.01171	104.9	0.5515	2.81	09/01/2023
Cadmium		0.0010		0.0519	0.0500	0	103.8	0.05187	0.06	09/01/2023
Chromium		0.0015		0.201	0.2000	0.0008107	100.3	0.2051	1.86	09/01/2023
Cobalt		0.0010		0.503	0.5000	0	100.6	0.5133	2.02	09/01/2023
Copper		0.0010		0.245	0.2500	0.001259	97.3	0.2499	2.14	09/01/2023
Iron		0.0250		2.06	2.000	0.04023	101.1	2.079	0.79	09/01/2023
Lead		0.0010		0.537	0.5000	0	107.3	0.5391	0.45	09/07/2023
Molybdenum	*	0.0015		0.495	0.5000	0.0007056	98.9	0.5110	3.14	09/01/2023
Nickel		0.0010		0.489	0.5000	0.0004437	97.8	0.5070	3.54	09/01/2023
Selenium		0.0010		0.478	0.5000	0.002385	95.1	0.4820	0.84	09/01/2023
Silver		0.0010		0.0562	0.0500	0	112.4	0.05697	1.38	09/01/2023
Thallium		0.0020		0.255	0.2500	0	102.1	0.2530	0.86	09/01/2023
Vanadium		0.0050		0.512	0.5000	0	102.4	0.5150	0.59	09/01/2023
Zinc		0.0150		0.518	0.5000	0	103.5	0.5192	0.29	09/01/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210926 SampType: MBLK Units mg/L

SampleID: MBLK-210926

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		< 0.0010	0.0008	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/30/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/10/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/11/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210926		SampType: LCS		Units mg/L							
SampID: LCS-210926											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.90	2.000	0	95.2	80	120	09/13/2023	
Antimony		0.0010		0.502	0.5000	0	100.3	80	120	08/30/2023	
Arsenic		0.0010		0.554	0.5000	0	110.9	80	120	09/13/2023	
Barium		0.0010		2.24	2.000	0	112.1	80	120	09/13/2023	
Beryllium		0.0010		0.0468	0.0500	0	93.6	80	120	09/13/2023	
Boron		0.0250		0.595	0.5000	0	119.0	80	120	09/10/2023	
Cadmium		0.0010		0.0517	0.0500	0	103.4	80	120	09/13/2023	
Chromium		0.0015		0.216	0.2000	0	107.8	80	120	09/13/2023	
Cobalt		0.0010		0.568	0.5000	0	113.5	80	120	08/30/2023	
Iron		0.0250		2.17	2.000	0	108.5	80	120	09/13/2023	
Lithium	*	0.0030		0.505	0.5000	0	101.1	80	120	08/31/2023	
Manganese		0.0020		0.555	0.5000	0	111.0	80	120	09/13/2023	
Molybdenum	*	0.0015		0.517	0.5000	0	103.3	80	120	09/13/2023	
Selenium		0.0010		0.480	0.5000	0	96.0	80	120	08/30/2023	
Thallium		0.0020		0.255	0.2500	0	102.0	80	120	08/30/2023	
Vanadium		0.0050		0.500	0.5000	0	100.0	80	120	08/30/2023	

Batch 210926		SampType: MS		Units mg/L							
SampID: 23071810-052CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		1.98	2.000	0.04995	96.4	75	125	09/13/2023	
Antimony		0.0010		0.502	0.5000	0	100.5	75	125	08/30/2023	
Arsenic		0.0010		0.555	0.5000	0	110.9	75	125	09/13/2023	
Barium		0.0010		2.41	2.000	0.1742	111.8	75	125	09/13/2023	
Beryllium		0.0010		0.0508	0.0500	0	101.5	75	125	09/13/2023	
Boron		0.0250		0.577	0.5000	0.05451	104.4	75	125	09/11/2023	
Cadmium		0.0010		0.0506	0.0500	0	101.3	75	125	09/13/2023	
Chromium		0.0015		0.210	0.2000	0	105.1	75	125	09/13/2023	
Cobalt		0.0010		0.472	0.5000	0	94.5	75	125	08/30/2023	
Iron		0.0250		4.77	2.000	2.658	105.5	75	125	09/13/2023	
Lead		0.0010		0.535	0.5000	0	106.9	75	125	09/13/2023	
Lithium	*	0.0030		0.547	0.5000	0.01019	107.4	75	125	08/31/2023	
Manganese		0.0020		0.752	0.5000	0.1774	114.9	75	125	09/13/2023	
Molybdenum	*	0.0015		0.526	0.5000	0.001671	104.8	75	125	09/13/2023	
Selenium		0.0010		0.456	0.5000	0	91.3	75	125	08/30/2023	
Thallium		0.0020		0.253	0.2500	0	101.1	75	125	08/30/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210926		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-052CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		0.0250		1.99	2.000	0.04995	96.8	1.978	0.40	09/13/2023	
Antimony		0.0010		0.522	0.5000	0	104.4	0.5024	3.88	08/30/2023	
Arsenic		0.0010		0.569	0.5000	0	113.8	0.5547	2.55	09/13/2023	
Barium		0.0010		2.39	2.000	0.1742	110.9	2.410	0.69	09/13/2023	
Beryllium		0.0010		0.0503	0.0500	0	100.5	0.05076	0.97	09/13/2023	
Boron		0.0250		0.574	0.5000	0.05451	103.8	0.5767	0.55	09/11/2023	
Cadmium		0.0010		0.0499	0.0500	0	99.8	0.05065	1.45	09/13/2023	
Chromium		0.0015		0.216	0.2000	0	108.1	0.2102	2.79	09/13/2023	
Cobalt		0.0010		0.494	0.5000	0	98.9	0.4724	4.56	08/30/2023	
Iron		0.0250		4.88	2.000	2.658	111.2	4.768	2.37	09/13/2023	
Lead		0.0010		0.546	0.5000	0	109.1	0.5345	2.04	09/13/2023	
Lithium	*	0.0030		0.528	0.5000	0.01019	103.5	0.5474	3.65	08/31/2023	
Manganese		0.0020		0.770	0.5000	0.1774	118.5	0.7517	2.36	09/13/2023	
Molybdenum	*	0.0015		0.524	0.5000	0.001671	104.6	0.5257	0.25	09/13/2023	
Selenium		0.0010		0.480	0.5000	0	96.1	0.4563	5.14	08/30/2023	
Thallium		0.0020		0.262	0.2500	0	104.7	0.2527	3.47	08/30/2023	

Batch 211078 SampType: MBLK Units mg/L

SampID: MBLK-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/02/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/08/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/08/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/05/2023

Batch 211078 SampType: LCS Units mg/L

SampID: LCS-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.543	0.5000	0	108.7	85	115	09/02/2023
Barium		0.0010		2.15	2.000	0	107.7	80	120	09/08/2023
Manganese		0.0020		0.520	0.5000	0	104.0	80	120	09/08/2023
Selenium		0.0010		0.529	0.5000	0	105.9	85	115	09/05/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211078		SampType: LCSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: LCSD-211078											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Arsenic		0.0010		0.514	0.5000	0	102.9	0.5433	5.47	09/02/2023	
Barium		0.0010		2.16	2.000	0	107.8	2.154	0.06	09/08/2023	
Manganese		0.0020		0.515	0.5000	0	103.0	0.5201	1.04	09/08/2023	
Selenium		0.0010		0.513	0.5000	0	102.5	0.5144	0.33	09/05/2023	

Batch 211078		SampType: MS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-042CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0010		2.22	2.000	0.03473	109.1	75	125	09/08/2023	
Manganese		0.0020		0.622	0.5000	0.1112	102.2	75	125	09/08/2023	

Batch 211078		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-042CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0010		2.14	2.000	0.03473	105.3	2.216	3.49	09/08/2023	
Manganese		0.0020		0.606	0.5000	0.1112	98.9	0.6221	2.66	09/08/2023	

Batch 211843		SampType: MBLK		Units mg/L				RPD Limit 20			Date Analyzed
SampID: MBLK-211843											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/18/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/15/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/15/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/15/2023	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/15/2023	

Batch 211843		SampType: LCS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: LCS-211843											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.516	0.5000	0	103.3	80	120	09/18/2023	
Barium		0.0010		2.27	2.000	0	113.4	80	120	09/15/2023	
Copper		0.0010		0.263	0.2500	0	105.2	80	120	09/15/2023	
Manganese		0.0020		0.543	0.5000	0	108.7	80	120	09/15/2023	
Thallium		0.0020		0.257	0.2500	0	102.8	80	120	09/15/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211843		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-078CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Manganese		0.0080	S	4.95	1.000	5.423	-47.4	75	125	09/18/2023	

Batch 211843		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-078CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Manganese		0.0080	S	5.10	1.000	5.423	-32.7	4.948	2.92	09/18/2023		

Batch 211843		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-082CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Barium		0.0010	S	5.38	4.000	0.2086	129.3	75	125	09/15/2023	

Batch 211843		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-082CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Barium		0.0010	S	5.56	4.000	0.2086	133.9	5.379	3.38	09/15/2023		

Batch 211843		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-083CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Barium		0.0010	S	5.23	4.000	0.03066	130.0	75	125	09/15/2023	

Batch 211843		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23071810-083CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Barium		0.0010	S	5.37	4.000	0.03066	133.5	5.231	2.63	09/15/2023		

Batch 211883		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211883											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/15/2023	

Batch 211883		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-211883											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Copper		0.0010		0.275	0.2500	0	109.9	80	120	09/15/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 212184		SampType: MBLK		Units mg/L							
SampID: MBLK-212184											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/20/2023	
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	09/20/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/20/2023	

Batch 212184		SampType: LCS		Units mg/L							
SampID: LCS-212184											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Arsenic		0.0010		0.515	0.5000	0	103.1	85	115	09/20/2023	
Iron	*	0.0250		2.14	2.000	0	106.9	85	115	09/20/2023	
Selenium		0.0010		0.455	0.5000	0	91.0	85	115	09/20/2023	

Batch 212184		SampType: MS		Units mg/L							
SampID: 23071810-114BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Iron		0.0250		2.34	2.000	0.3837	97.6	75	125	09/20/2023	

Batch 212184		SampType: MSD		Units mg/L							
SampID: 23071810-114BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Iron		0.0250		2.31	2.000	0.3837	96.2	2.335	1.17	09/20/2023	

SW-846 7470A (DISSOLVED)

Batch 210710		SampType: MS		Units mg/L							
SampID: 23071810-004DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00516	0.0050	0	103.2	75	125	08/14/2023	

Batch 210710		SampType: MSD		Units mg/L							
SampID: 23071810-004DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00512	0.0050	0	102.3	0.005162	0.88	08/14/2023	

Batch 210850		SampType: MS		Units mg/L							
SampID: 23071810-011CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00514	0.0050	0	102.7	75	125	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (DISSOLVED)

Batch 210850		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-011CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00495	0.0050	0	99.0	0.005137	3.67	08/15/2023	

Batch 210850		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23071810-021CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00515	0.0050	0	103.0	75	125	08/15/2023	

Batch 210850		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-021CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00536	0.0050	0	107.3	0.005148	4.10	08/15/2023	

Batch 211199		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23071810-050DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00575	0.0050	0.0003389	108.2	75	125	08/23/2023	

Batch 211199		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-050DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00564	0.0050	0.0003389	106.1	0.005749	1.86	08/23/2023	

SW-846 7470A (TOTAL)

Batch 210705		SampType: MBLK		Units mg/L				RPD Limit 15			
SampID: MBLK-210705											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/11/2023	

Batch 210705		SampType: LCS		Units mg/L				RPD Limit 15			
SampID: LCS-210705											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00540	0.0050	0	108.0	85	115	08/11/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210705		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00556	0.0050	0	111.3	75	125	08/11/2023	

Batch 210705		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00571	0.0050	0	114.2	0.005563	2.63	08/11/2023		

Batch 210710		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210710											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/14/2023	

Batch 210710		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210710											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00513	0.0050	0	102.6	85	115	08/14/2023	

Batch 210850		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210850											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210850		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210850											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00491	0.0050	0	98.2	85	115	08/15/2023	

Batch 210851		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210851											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210851		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210851											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00503	0.0050	0	100.7	85	115	08/15/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210851		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-034CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00530	0.0050	0	105.9	75	125	08/15/2023	

Batch 210851		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-034CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00508	0.0050	0	101.6	0.005297	4.21	08/15/2023		

Batch 210851		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-060CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00481	0.0050	0	96.2	75	125	08/15/2023	

Batch 210851		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-060CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00465	0.0050	0	93.0	0.004810	3.41	08/15/2023		

Batch 210857		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210857											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210857		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210857											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00477	0.0050	0	95.4	85	115	08/15/2023	

Batch 210857		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-070CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00487	0.0050	0	97.4	75	125	08/15/2023	

Batch 210857		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-070CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00489	0.0050	0	97.8	0.004871	0.43	08/15/2023		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210857		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-082CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00795	0.0100	0	79.5	75	125	08/15/2023	

Batch 210857		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-082CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00810	0.0100	0	81.0	0.007945	1.87	08/15/2023		

Batch 210858		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210858											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210858		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210858											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00507	0.0050	0	101.3	85	115	08/15/2023	

Batch 210858		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-108CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00498	0.0050	0	99.7	75	125	08/15/2023	

Batch 210858		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-108CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00524	0.0050	0	104.8	0.004983	5.01	08/15/2023		

Batch 210923		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210923											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/16/2023	

Batch 210923		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210923											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00544	0.0050	0	108.8	85	115	08/16/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

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SW-846 7470A (TOTAL)

Batch 210923		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-029CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00560	0.0050	0	112.0	75	125	08/16/2023	

Batch 210923		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-029CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00558	0.0050	0	111.6	0.005601	0.33	08/16/2023		

Batch 210923		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-040CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00593	0.0050	0	118.6	75	125	08/16/2023	

Batch 210923		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-040CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00578	0.0050	0	115.7	0.005929	2.50	08/16/2023		

Batch 211199		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211199											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/23/2023	

Batch 211199		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-211199											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00443	0.0050	0	88.6	85	115	08/23/2023	

Batch 211205		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211205											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/25/2023	

Batch 211205		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-211205											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00571	0.0050	0	114.2	85	115	08/23/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 211312		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211312											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/26/2023	

Batch 211312		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-211312											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00458	0.0050	0	91.5	85	115	08/25/2023	

Batch 211312		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-094CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020	S	0.00227	0.0100	0	22.7	75	125	08/25/2023	

Batch 211312		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23071810-094CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020	SR	0.00054	0.0100	0	5.4	0.002273	123.78	08/25/2023		



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Carrier: Justin Colp

Received By: ANC

Completed by:

Amber Dilallo

Reviewed by:

Ellie Hopkins

On:

10-Aug-23

Amber Dilallo

On:

15-Aug-23

Ellie Hopkins

Pages to follow: Chain of custody Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 3.4
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input checked="" type="checkbox"/>	Lab <input type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 8/10/2023 10:45:53 AM
 Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G111 (Dissolved) and G303 (Total and Dissolved). - amberdilallo - 8/10/2023 10:46:03 AM
 pH strip #79929/90719. - amberdilallo - 8/11/2023 9:37:32 AM
 Additional Sulfuric Acid (90128) was needed upon arrival at the laboratory for G106 and R104. Additional Sodium Hydroxide (81662) was needed upon arrival at the laboratory for G153 and G154. Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G154 (Total and Dissolved). - amberdilallo - 8/11/2023 9:38:34 AM
 Samples collected on 8/10/23 were delivered to the laboratory on 8/10/23 at 1730 (on ice 2.6C - LTG5). AMD/ERH 8/10/23
 Samples collected on 8/11/213 were delivered to the laboratory on 8/11/23 at 1427 (on ice 10.2C - LTG5). LM/ERH 8/10/23
 Samples collected on 8/14/213 were delivered to the laboratory on 8/14/23 at 1810 (on ice 5.8C - LTG5). ANC/ERH 8/15/23
 Additional Nitric Acid (92447) was needed upon arrival at the laboratory for X201. Additional Sulfuric Acid (90128) was needed upon arrival at the laboratory for X201. - amberdilallo - 8/15/2023 3:48:32 PM
 X201 filtered and preserved with Nitric Acid (92447), Sulfuric Acid (90128) and left unpreserved for the dissolved parameters upon arrival at the laboratory. - amberdilallo - 8/15/2023 3:48:33 PM
 pH strip #90719. - amberdilallo - 8/15/2023 3:48:35 PM
 Samples collected on 8/15/213 were delivered to the laboratory on 8/15/23 at 1518 (on ice 12.4C - LTG1). TM/ERH 8/10/23
 pH strip #90719. - amberdilallo - 9/19/2023 3:51:31 PM
 Samples collected on 9/19/23 were delivered to the laboratory on 9/19/23 at 1312 (on ice 9.4C - LTG1). AMD/ERH 9/19/23

COF-845-102
 23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE (see valid codes to left)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No / Lab I.D.		
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102			COF-WPCP-103-104	COF-WPCP-106
							DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)																					
1	G101		8-9-23	1451	5	2	1	1																			23071810-001				
2	G102		8-9-23	1507	7	2	2	2																			002				
3	G103				7	2	2	2																			003				
4	G105				7	2	2	2																			004				
5	G106				7	2	2	2																			005				
6	G107				5	2	1	1																			006				
7	G108		8-9-23	0948	5	2	1	1																			007				
8	G109			1010	5	2	1	1																			008				
9	G110			1028	5	2	1	1																			009				
10	G111			1047	5	2	1	1																			010				
11	G119			1132	5	2	1	1																			011				
12	G120			1149	6	2	1	2																			012				
13	G121			1219	5	2	1	1																			013				
14	G122			1237	5	2	1	1																			014				
15	G123			1257	5	2	1	1																			015				
16	G124			1313	5	2	1	1																			016				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0		J. Golp		8-9	1752	Justin Golp		8/9	1752	3.4	Y	N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
	Justin Golp				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				
	8-9-23				

Added HNO₃ to G111 (D) & G303 (T&D)
 (92447) PH ✓ 90719 sm
 8/10/23

COF-845-102
23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 7

Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St Email To: Brian.Voelker@vistra.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285		Section C Invoice Information: Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Reference: Project Manager: Profile #:		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:		
---	--	--	--	--	--	---	--	--

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No / Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000			COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	G125				8-9-23	1327	6	2	1	2																					23071810-017
2	G126				8-9-23	1401	5	2	1	1																					018
3	G151						4	2	1	1																					019
4	G152						4	2	1	1																					020
5	G153						4	2	1	1																					021
6	G154						5	2	2	2	1																				022
7	G155						4	2	1	1																					023
8	G200						7	2	2	2	1																				024
9	G206						7	2	2	2	1																				025
10	G206D						6	2	2	2																					026
11	G207						6	2	1	2	1																				027
12	G208						6	2	1	2	1																				028
13	G209						7	2	2	2	1																				029
14	G210						6	2	1	2	1																				030
15	G211						6	2	1	2	1																				031
16	G212						7	2	2	2	1																				032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q3 Rev 0	J. Colo	8/9	1752	Alison Cole	8/9	1752	Y	N	

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Seal/Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Colo						
SIGNATURE of SAMPLER:	<i>[Signature]</i>			DATE Signed (MM/DD/YY):	8-9-23		

COF-23Q3
23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test #	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Project No./ Lab I.D.									
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104			COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106					
					1	G213								7	2		2	2																				
2	G214						6	2	1	2																												034
3	G215						7	2	2	2																												035
4	G216						6	2	1	2																												036
5	G217						7	2	2	2																												037
6	G218						7	2	2	2																												038
7	G270						7	2	2	2																												039
8	G271						7	2	2	2																												040
9	G272						6	2	1	2																												041
10	G273						7	2	2	2																												042
11	G274						6	2	1	2																												043
12	G275						7	2	2	2																												044
13	G275D						6	2	2	2																												045
14	G276						7	2	2	2																												046
15	G277						7	2	2	2																												047
16	G278						6	2	1	2																												048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0				<i>Alison Cole</i>	8/9	1752	Y	N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	DATE Signed (MM/DD/YYYY):				
SIGNATURE of SAMPLER:					

COF-230302
23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 4 of 7															
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location:</td> <td>IL</td> </tr> <tr> <td colspan="3">STATE:</td> </tr> </table>	REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location:		IL	STATE:		
REGULATORY AGENCY																		
NPDES	GROUND WATER	DRINKING WATER																
UST	RCRA	OTHER																
Site Location:		IL																
STATE:																		
Address: 13496 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp																
		Address: see Section A																
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:																
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:																
Requested Due Date/TAT: 10 day	Project Number: 2285	Probe #:																

ITEM #	Section D Required Client Information		MATRIX Valid Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.				
	DATE	TIME				Unpreserved	H ₂ SO ₄			HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101		COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
	1	G279										7	2222		1								✓	✓			✓		✓	✓	✓	
2	G280					7	2222		1							✓	✓						✓	✓	✓	✓			051			
3	G281					7	2222		1							✓	✓						✓	✓	✓	✓			052			
4	G283					6	2222									✓	✓						✓	✓	✓	✓			053			
5	G284					6	2222									✓	✓						✓	✓	✓	✓			054			
6	G285					6	2222									✓	✓						✓	✓	✓	✓			055			
7	G286					0										✓	✓						✓	✓	✓	✓			056			
8	G287					0										✓	✓						✓	✓	✓	✓			057			
9	G288					0										✓	✓						✓	✓	✓	✓			058			
10	G301			8-9-23		6	2222	1113								✓	✓						✓	✓	✓	✓			059			
11	G302			8-9-23		6	2222	1155								✓	✓						✓	✓	✓	✓			060			
12	G303			8-9-23		6	2222	1526								✓	✓						✓	✓	✓	✓			061			
13	G305					6	2222									✓	✓						✓	✓	✓	✓			062			
14	G306					6	2222									✓	✓						✓	✓	✓	✓			063			
15	G307					6	2222									✓	✓						✓	✓	✓	✓			064			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																								
COF-23Q3 Rev 0		J. Colp	8-9	1752	Allen Colp	8-9	1752	Y N																								

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Justin Colp		
SIGNATURE of SAMPLER:	<i>Justin Colp</i>		
DATE Signed (MM/DD/YYYY):	8-9-23		
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COF-23Q3-102
23071810

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Project No. / Lab I.D.					
							MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104		COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G308					6	2	2	2																							23071810-065	
2	G309					6	2	2	2																						266		
3	G310		8-9-23	1036		6	2	2	2																						267		
4	G312		↓	1229		6	2	2	2																						268		
5	G313			1412		6	2	2	2																						269		
6	G314			1433		6	2	2	2																						270		
7	G314D		↓	1453		6	2	2	2																						271		
8	G315					6	2	2	2																						272		
9	G316		8-9-23	1343		6	2	2	2																						273		
10	G317					6	2	2	2																						274		
11	G401					7	2	2	2																						275		
12	G402					7	2	2	2																						276		
13	G403					7	2	2	2																						277		
14	G404					7	2	2	2																						278		
15	G405					7	2	2	2																						279		
16	G406					7	2	2	2																						280		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
COF-23Q3 Rev 0		J-Loe		8-9		1752		Alton Cole		8-9		1752		Y N		

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Loe							
SIGNATURE of SAMPLER: [Signature]			DATE Signed (MM/DD/YY): 8-9-23				

23071810
COF-849-002

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location STATE: IL	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)										Project No / Lab I.D.													
								Matrix Code (see valid codes to left)									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
								DRINKING WATER DW	WATER WT	WASTE WATER WW	PRODUCT P	SOIL/SOLID SL	OIL OL	WP WP	AIR AR																									
1	G407						7	2	2	2		1																											23071810-081	
2	G410						4	1	2		1																												282	
3	G411						4	1	2		1																												283	
4	G1001						6	2	2	2																													284	
5	G1003						0																																285	
6	L203						2	1		1																													286	
7	MW03D						0																																287	
8	MW11D						0																																288	
9	MW11S						0																																289	
10	MW12D						0																																290	
11	MW16D						0																																291	
12	MW16S						0																																292	
13	MW20S						0																																293	
14	NE Riser						6	2	2	2																													294	
15	R104						7	2	2	2		1																											295	
16	R201						7	2	2	2		1																											296	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0						<i>Alison Coe</i>		8/9	1752	Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY):					

COF-184511810
 230711810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		Residual Chlorine (Y/N)		
				Profile #:				

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test #	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	
1	R205				6	2	2																							23071810-097
2	SG-02				0																									098
3	SG-03				0																									099
4	SG-04				0																									100
5	T127		8-9-23 1108		6	2	1	2																						101
6	T128		8-9-23 1416		5	2	1	1																						102
7	X201				6	2	2	2																						103
8	XPW01				6	2	2	2																						104
9	XPW02				6	2	2	2																						105
10	XSG-01				0																									106
11	Field Blank				8	2	3	2	1																					107
12	G102 Duplicate		8-9-23 1507		7	2	2	2																						108
13	G200 Duplicate				7	2	2	2																						109
14	G273 Duplicate				7	2	2	2																						110
15	G301 Duplicate		8-9-23 1311		6	2	2	2																						111
16	R201 Duplicate				7	2	2	2																						112

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-9	1752	Alison Colp	819	1752	Y N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Top (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	JUSTIN COLP				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed (MM/DD/YY):	8-9-23		

23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 7		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp				
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		NPDES GROUND WATER DRINKING WATER		
Phone: (217) 753-8911 Fax:		Project Name:		Quota Reference:		UST RCRA OTHER		
Requested Due Date/TAT: 10 day		Project Number: 2265		Project Manager:		Site Location		
				Profile #:		STATE: IL		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives												Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
						DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104		COF-WPCP-106	Residual Chlorine (Y/N)	
																																	DRINKING WATER DW
1	G101				5	2	1	1																									23071810-001
2	G102				7	2	2	2																									002
3	G103		8-10-23	0823	7	2	2	2																									003
4	G105			0859	7	2	2	2																									004
5	G106			0916	7	2	2	2																									005
6	G107			0943	5	2	1	1																									006
7	G108				5	2	1	1																									007
8	G109				5	2	1	1																									008
9	G110				5	2	1	1																									009
10	G111				5	2	1	1																									010
11	G119				5	2	1	1																									011
12	G120				6	2	1	2																									012
13	G121				5	2	1	1																									013
14	G122				5	2	1	1																									014
15	G123				5	2	1	1																									015
16	G124				5	2	1	1																									016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Galo	8-10	1730	Emoe, Deeks	8/10/23	1730	Y N Y

ph 7/19/2023. Added H2SO4 (90219) to G106 and 2104. Added NaOH (1662) to G103 and G104. Added HNO3 to total one dissolved from G104. Get 8-11-23.

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Galo				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed (MM/DD/YY):	8-10-23		

005

23071810
COF-845-100

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax:		Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285 Requested Due Date/TAT: 10 day		Section C Invoice Information: Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Reference: Project Manager: Profile #:		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:		
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ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9, /, .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WF WASTE WATER WW PRODUCT P SOLIDS/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see visit codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)											Project No./ Lab I.D.						
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	Y	N	Y	N	Y	N	Y	N	Y	N		Y	N				
																COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)			
1	G125						6	2	1	2																								23071810-017
2	G126						5	2	1	1																								018
3	G151				8-10-23	1010	4	2	1	1																								019
4	G152				8-10-23	1209	4	2	1	1																								020
5	G153				8-10-23	1138	4	2	1	1																								021
6	G154				8-10-23	1113	5	2	2	1																								022
7	G155				8-10-23	1076	4	2	1	1																								023
8	G200						7	2	2	2																								024
9	G206						7	2	2	2																								025
10	G206D						6	2	2	2																								026
11	G207						6	2	1	2																								027
12	G208						6	2	1	2																								028
13	G209						7	2	2	2																								029
14	G210						6	2	1	2																								030
15	G211						6	2	1	2																								031
16	G212				8-10-23	1528	7	2	2	2																								032

ADDITIONAL COMMENTS COF-23Q3 Rev 0			RELINQUISHED BY / AFFILIATION J. Goldberg		DATE 8-10	TIME 1730	ACCEPTED BY / AFFILIATION Amber DuBois		DATE 8/10/23	TIME 1730	SAMPLE CONDITIONS Y N		
--	--	--	---	--	---------------------	---------------------	--	--	------------------------	---------------------	---------------------------------	--	--

SAMPLER NAME AND SIGNATURE						Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Goldberg									
SIGNATURE of SAMPLER: [Signature]			DATE Signed (MM/DD/YY): 8-10-23						

COF-845-102
23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey			
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	REGULATORY AGENCY		
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	NPDES	GROUND WATER	DRINKING WATER
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	UST	RCRA	OTHER
				Site Location	IL
				STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Project No / Lab I.D.								
						DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other	Analysis Test ↓	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103		COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1		G213	8-10-23 1508		7	2	2	2	1																							23071810-038		
2		G214	8-10-23 1450		6	2	1	2	1																							034		
3		G215	↓ 1416		7	2	2	2	1																							235		
4		G216	↓ 1347		6	2	1	2	1																							036		
5		G217	↓ 1325		7	2	2	2	1																							037		
6		G218	↓ 1253		7	2	2	2	1																							038		
7		G270			7	2	2	2	1																							039		
8		G271			7	2	2	2	1																							040		
9		G272			6	2	1	2	1																								041	
10		G273			7	2	2	2	1																								042	
11		G274			6	2	1	2	1																								043	
12		G275			7	2	2	2	1																									044
13		G275D			6	2	2	2	1																									045
14		G276			7	2	2	2	1																									046
15		G277			7	2	2	2	1																									047
16		G278			6	2	1	2	1																									048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-10	1730	Justin Colp	8/10/23	1730	Y N

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Justin Colp		
SIGNATURE of SAMPLER:	<i>[Signature]</i>		
DATE Signed (MM/DD/YY):	8-10-23		
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COF-845-002
23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7		
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp				
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A		UST	RCRA	OTHER
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		Site Location STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Project No / Lab I.D.									
							Preservatives																				
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G279					7	2	2	2																		23071810-049
2	G280					7	2	2	2																		050
3	G281					7	2	2	2																		051
4	G283					6	2	2	2																		252
5	G284					6	2	2	2																		253
6	G285					6	2	2	2																		254
7	G286					0																					255
8	G287					0																					256
9	G288					0																					057
10	G301					6	2	2	2																		058
11	G302					6	2	2	2																		259
12	G303					6	2	2	2																		060
13	G305		8-10-23	1236		6	2	2	2																		061
14	G306		8-10-23	1101		6	2	2	2																		062
15	G307	CANT RAMP	8-10-23	N/A		6	2	2	2																		063
16	G307D		8-10-23	1212		6	2	2	2																		064

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Galp	8-10	1730	Justin Galp	8/10/23	1730	Y	N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Galp				
SIGNATURE of SAMPLER:	<i>Justin Galp</i>	DATE Signed (MM/DD/YY):	8-10-23		

COF-23Q3-11920

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location:		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)											Project No./ Lab I.D.		
					Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Ni ₂ S ₂ O ₈	Methanol	Other	Analysis Test ↓	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104		COF-WPCP-105	Residual Chlorine (Y/N)
1	G308		8-10-23	1308	6	2	2	2																				23071810-065	
2	G309				6	2	2	2																				066	
3	G310				6	2	2	2																				067	
4	G312				6	2	2	2																				068	
5	G313				6	2	2	2																				069	
6	G314				6	2	2	2																				070	
7	G314D				6	2	2	2																				071	
8	G315		8-10-23	1129	6	2	2	2																				072	
9	G316				6	2	2	2																				073	
10	G317				6	2	2	2																				074	
11	G401				7	2	2	2	1																			075	
12	G402				7	2	2	2	1																			076	
13	G403				7	2	2	2	1																			077	
14	G404				7	2	2	2	1																			078	
15	G405				7	2	2	2	1																			079	
16	G406				7	2	2	2	1																			080	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Goldberg	8-10	1730	Smr. Dale	8/10/23	1730	Y N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Joshua Goldberg				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed (MM/DD/YY):	8-10-23		

COF-23Q3
 23071810

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)											Project No / Lab I.D.				
						MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other	Analysis Test #	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-814-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G407		8-10-23 1432		7	2	2	2																				23071810-081				
2	G410		8-10-23 1458		4			2																				082				
3	G411		8-10-23 1524		4			2																				083				
4	G1001				6	2	2	2																				084				
5	G1003				0																							085				
6	L203				2	1		1																				086				
7	MW03D				0																							087				
8	MW11D				0																							088				
9	MW11S				0																							089				
10	MW12D				0																							090				
11	MW16D				0																							091				
12	MW16S				0																							092				
13	MW20S				0																							093				
14	NE Riser				6	2	2	2																				094				
15	R104		8-10-23 0840		7	2	2	2																				095				
16	R201				7	2	2	2																				096				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colo	8-10	1730	Jason Stuckey	8/10/23	1730	Y N

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Josim Colo							
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed (MM/DD/YYYY): 8-10-23				

250-891-800

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY					
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey					NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp					UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A					Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:					STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		Profile #:					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)											Project No / Lab I.D.									
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-108	Residual Chlorine (Y/N)					
1	R205						6	2	1	2	1																										23071810-097	
2	SG-02						0																														098	
3	SG-03						0																														099	
4	SG-04						0																														100	
5	T127						6	2	1	2	1																										101	
6	T128						5	2	1	1	1																										102	
7	X201						6	2	2	2																											103	
8	XPW01						6	2	2	2																											104	
9	XPW02						6	2	2	2																												105
10	XSG-01						0																														106	
11	Field Blank						8	2	3	2	1																										107	
12	G102 Duplicate						7	2	2	2	1																										108	
13	G200 Duplicate						7	2	2	2	1																										109	
14	G273 Duplicate						7	2	2	2	1																										110	
15	G301 Duplicate						6	2	2	2																											111	
16	R201 Duplicate						7	2	2	2	1																										112	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																												
COF-23Q3 Rev 0		J. Colp		8-10	1730	J. Colp		8/10/23	1730	Y N																												

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: J. Colp		SIGNATURE of SAMPLER: <i>[Signature]</i>						DATE Signed (MM/DD/YY): 8-10-23

COF-845-102

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.												
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	Analysis Test ↓	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102		COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)					
1	G308						6	2	2	2																													23071810-065
2	G309						0																																066
3	G310						6	2	2	2																													067
4	G312						6	2	2	2																													068
5	G313						6	2	2	2																													069
6	G314						6	2	2	2																													070
7	G314D						6	2	2	2																													071
8	G315						6	2	2	2																													072
9	G316						6	2	2	2																													073
10	G317						0																																074
11	G401					8/11/23	122	7	2	2	2	1																											075
12	G402					8/11/23	1209	7	2	2	2	1																											076
13	G403					8/11/23	1051	7	2	2	2	1																											077
14	G404							7	2	2	2	1																											078
15	G405					8/11/23	1241	7	2	2	2	1																											079
16	G406					8/11/23	1013	7	2	2	2	1																											080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q3 Rev 0	<i>[Signature]</i>	8/11/23	1427	<i>[Signature]</i>	8/11/23	1427	Y	N	

PHI: 90719/19929
(9244)
Added HNO₃ to G405 diss.
cont. um 8/11

10.2° #5

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Joe Kitei</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	8/11/23		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:				
Company: <u>Vistra Corp</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>				
Address: <u>13498 E. 900th St</u>	Copy To: <u>Jason Stuckey</u>	Address: <u>see Section A</u>		REGULATORY AGENCY				
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No.:	Quote Reference:				NPDES	GROUND WATER	DRINKING WATER
Phone: <u>(217) 753-8911</u> Fax:	Project Name:	Project Manager:				UST	RCRA	OTHER
Requested Due Date/TAT: <u>10 day</u>	Project Number: <u>2285</u>	Profile #:				Site Location		IL
				STATE:				

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT ISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)													Project No./ Lab I.D.							
					DATE	TIME			Preservatives									Analysis Test ↓	Requested Analysis Filtered (Y/N)																			
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other			COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1	G125																																					
2	G126																																					
3	G151																																					
4	G152																																					
5	G153																																					
6	G154																																					
7	G155																																					
8	G200																																					
9	G206					8-14-23	1152																															-025
10	G206D					8-14-23	1134																															026
11	G207																																					028
12	G208					8-14-23	1109																															029
13	G209					↓	1046																															030
14	G210					↓	1029																															031
15	G211						1236																															
16	G212																																					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																												
COF-23Q3 Rev 0		J. Colp		8-14	1810	Allison Colp		8/14	1810	S-8 #5																												

PH: 90719
AC 8/15

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	<u>Jason Colp</u>	
SIGNATURE of SAMPLER:	<u>[Signature]</u>	
DATE Signed (MM/DD/YY):	8-14-23	
Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **3** of **7**

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:			
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES GROUND WATER DRINKING WATER		
		Address: see Section A	UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	Site Location		
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	STATE: IL		
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)													Project No./ Lab i.D.														
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)											
1	G213																																											
2	G214																																											
3	G215																																											
4	G216																																											
5	G217																																											
6	G218																																											
7	G270																																											039
8	G271																																									040		
9	G272																																									041		
10	G273																																									042		
11	G274																																									043		
12	G275																																									044		
13	G275D																																									045		
14	G276																																									046		
15	G277																																										047	
16	G278																																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. GLP	8-14	1810	Justin GLP	8/14	1810				
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin GLP					DATE Signed (MM/DD/YY): 8-14-23					
SIGNATURE of SAMPLER: [Signature]										

23071810
COF-845-102

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 3 of 7		
Company: <u>Vistra Corp</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		REGULATORY AGENCY		
Address: <u>13498 E. 900th St</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>					NPDES	GROUND WATER	DRINKING WATER
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		UST	RCRA	OTHER
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Quote Reference:		Site Location		IL
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:		STATE:		
				Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other														
																	↓ Analysis Test ↓										Residual Chlorine (Y/N)			
																	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103		COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	G213																													
2	G214																													
3	G215																													
4	G216																													
5	G217																													
6	G218																													
7	G270																													
8	G271																													
9	G272																													
10	G273																													
11	G274																													
12	G275																													
13	G275D																													
14	G276																													
15	G277																													
16	G278 <i>infiltrant water</i>																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Cold	8-15	1518	<i>[Signature]</i>	8-15-23	1518	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Justin Cold</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed (MM/DD/YY):		8-15-23			

COF-845-02
23071802

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7				
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY				
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp				NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A				UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name:		Quote Reference:		Site Location IL		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:						
				Profile #:						

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.						
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103		COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G279																																
2	G280																																
3	G281																																
4	G283				8-15-23	1145																											
5	G284				↓	1010																											
6	G285					1104																											
7	G286																																
8	G287																																
9	G288																																
10	G301																																
11	G302																																
12	G303																																
13	G305																																
14	G306																																
15	G307																																
16	G307D																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Cold	8-15	1518	<i>[Signature]</i>	8-15-23	1518	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>J. Cold</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>						DATE Signed (MM/DD/YY): 8-15-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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COF-845-102

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 6 of 7
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Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY				
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp			NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A			UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name:	Site Location		IL		
Requested Due Date/TAT: 10 day	Project Number: 2285	Project Manager:	STATE:				
		Profile #:					

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)	Project No / Lab I.D.																
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1		G407																																
2		G410																																
3		G411																																
4		G1001 <i>insufficient water</i>			8-15-23	10:4																												
5		G1003																																
6		L203 <i>insufficient water</i>			8-15-23	10:4																												
7		MW03D																																
8		MW11D																																
9		MW11S																																
10		MW12D																																
11		MW16D																																
12		MW16S																																
13		MW20S																																
14		NE Riser			8-15-23	13:12																												
15		R104																																
16		R201 <i>*</i>			8-15-23	10:4																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-15	15:18	<i>[Signature]</i>	8-15-23	15:18	

** = hole in air lke*

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>Justin Colp</i>		DATE Signed (MM/DD/YY): <i>8-15-23</i>	Temp in °C
SIGNATURE of SAMPLER: <i>[Signature]</i>				Received on Ice (Y/N)
			Custody Sealed Cooler (Y/N)
			Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:
Company: **Vistra Corp**
Address: **13498 E. 900th St**
Email To: Brian.Voelker@VistraCorp.com
Phone: **(217) 753-8911** Fax:
Requested Due Date/TAT: **10 day**

Section B

Required Project Information:
Report To: **Brian Voelker**
Copy To: **Jason Stuckey**
Purchase Order No.:
Project Name:
Project Number: **2285**

Section C

Invoice Information:
Attention: **Jason Stuckey**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location		IL
STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIFE WIF AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPI)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.								
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1	G308 (resample)				9/19/23	1100	1	1									X																				23071810-113
2	X201 (resample)				9/19/23	1017	1	1													X	X															-114
3																																					
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					
13																																					
14																																					
15																																					
16																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q3 Rev 0	<i>Tracy</i>	9/19/23	1312	<i>Tracy</i>	9/19/23	1312	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Tracy</i>	SIGNATURE of SAMPLER: <i>Tracy</i>				
DATE Signed (MM/DD/YY): <i>9/19/23</i>					

WAI
PHV 90719
Dmn 9/19/23

September 28, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: COF-23Q3

WorkOrder: 23071811

Dear Eric Bauer:

TEKLAB, INC received 62 samples on 8/15/2023 3:18:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	60
Dates Report	62
Receiving Check List	66
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Cooler Receipt Temp: 3.4 °C

An employee of Teklab, Inc. collected the sample(s).

G200, G275, G277, G279, and R201 could not be collected; the wells were dry. G1001 and G307 would not pump.

Ra226/228 were performed by Eurofins St. Louis. See attached report for results and QC.

This report was revised on September 28, 2023 per Eric Bauer's request. The reason for the revision is to correct collection times for G308, G402, G273 Duplicate and G301 Duplicate. Please replace report dated September 19, 2023 with this report. EAH 9/28/23

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-001

Client Sample ID: G151

Matrix: GROUNDWATER

Collection Date: 08/10/2023 10:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-002

Client Sample ID: G152

Matrix: GROUNDWATER

Collection Date: 08/10/2023 12:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-003

Client Sample ID: G153

Matrix: GROUNDWATER

Collection Date: 08/10/2023 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-004
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G154
Collection Date: 08/10/2023 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-005
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G155
Collection Date: 08/10/2023 10:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-007
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G206
Collection Date: 08/14/2023 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-008

Client Sample ID: G206D

Matrix: GROUNDWATER

Collection Date: 08/14/2023 11:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-009

Client Sample ID: G209

Matrix: GROUNDWATER

Collection Date: 08/14/2023 10:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-010
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G212
Collection Date: 08/10/2023 15:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Lab ID: 23071811-011

Client Sample ID: G213

Matrix: GROUNDWATER

Collection Date: 08/10/2023 15:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:03	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-012

Client Sample ID: G215

Matrix: GROUNDWATER

Collection Date: 08/10/2023 14:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:03	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-013
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G217
Collection Date: 08/10/2023 13:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:03	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Lab ID: 23071811-014

Client Sample ID: G218

Matrix: GROUNDWATER

Collection Date: 08/10/2023 12:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-015

Client Sample ID: G270

Matrix: GROUNDWATER

Collection Date: 08/14/2023 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-016
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G271
Collection Date: 08/14/2023 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-017

Client Sample ID: G273

Matrix: GROUNDWATER

Collection Date: 08/14/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-019

Client Sample ID: G275D

Matrix: GROUNDWATER

Collection Date: 08/14/2023 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-020

Client Sample ID: G276

Matrix: GROUNDWATER

Collection Date: 08/14/2023 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:05	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-023
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G280
Collection Date: 08/14/2023 14:48

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:05	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Lab ID: 23071811-024

Client Sample ID: G281

Matrix: GROUNDWATER

Collection Date: 08/14/2023 16:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:05	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-025
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G283
Collection Date: 08/15/2023 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:36	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-026

Client Sample ID: G284

Matrix: GROUNDWATER

Collection Date: 08/15/2023 10:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:36	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-027
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G285
Collection Date: 08/15/2023 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:37	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-028
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G301
Collection Date: 08/09/2023 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-029
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G302
Collection Date: 08/09/2023 11:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-030

Client Sample ID: G303

Matrix: GROUNDWATER

Collection Date: 08/09/2023 15:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-031
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G305
Collection Date: 08/10/2023 12:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-032
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G306
Collection Date: 08/10/2023 11:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-034
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G307D
Collection Date: 08/10/2023 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-035

Client Sample ID: G308

Matrix: GROUNDWATER

Collection Date: 08/10/2023 13:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-036
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G310
Collection Date: 08/09/2023 10:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-037
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G312
Collection Date: 08/09/2023 12:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-038

Client Sample ID: G313

Matrix: GROUNDWATER

Collection Date: 08/09/2023 14:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-039

Client Sample ID: G314

Matrix: GROUNDWATER

Collection Date: 08/09/2023 14:33

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-040
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G314D
Collection Date: 08/09/2023 14:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-041

Client Sample ID: G315

Matrix: GROUNDWATER

Collection Date: 08/10/2023 11:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:56	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-042

Client Sample ID: G316

Matrix: GROUNDWATER

Collection Date: 08/09/2023 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:56	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-043

Client Sample ID: G401

Matrix: GROUNDWATER

Collection Date: 08/11/2023 11:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:57	R336553



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-044
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G402
Collection Date: 08/11/2023 12:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Lab ID: 23071811-045

Client Sample ID: G403

Matrix: GROUNDWATER

Collection Date: 08/11/2023 10:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-046

Client Sample ID: G404

Matrix: GROUNDWATER

Collection Date: 08/14/2023 15:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-047
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G405
Collection Date: 08/11/2023 12:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-048
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G406
Collection Date: 08/11/2023 10:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-049

Client Sample ID: G407

Matrix: GROUNDWATER

Collection Date: 08/10/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-050

Client Sample ID: G410

Matrix: GROUNDWATER

Collection Date: 08/10/2023 14:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab ID: 23071811-051

Client Sample ID: G411

Matrix: GROUNDWATER

Collection Date: 08/10/2023 15:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-053
Matrix: LEACHATE

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: NE Riser
Collection Date: 08/15/2023 13:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-055
Matrix: LEACHATE

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: X201
Collection Date: 08/15/2023 12:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Lab ID: 23071811-056

Client Sample ID: XPW01

Matrix: GROUNDWATER

Collection Date: 08/10/2023 13:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-057
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: XPW02
Collection Date: 08/10/2023 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-058
Matrix: AQUEOUS

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: Field Blank
Collection Date: 08/15/2023 10:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-060
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G273 Duplicate
Collection Date: 08/14/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071811-061
Matrix: GROUNDWATER

Work Order: 23071811
Report Date: 28-Sep-23
Client Sample ID: G301 Duplicate
Collection Date: 08/09/2023 11:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071811-001	G151	Groundwater	1	08/10/2023 10:10
23071811-002	G152	Groundwater	1	08/10/2023 12:09
23071811-003	G153	Groundwater	1	08/10/2023 11:38
23071811-004	G154	Groundwater	1	08/10/2023 11:13
23071811-005	G155	Groundwater	1	08/10/2023 10:46
23071811-006	G200	Groundwater	1	08/15/2023 0:00
23071811-007	G206	Groundwater	1	08/14/2023 11:52
23071811-008	G206D	Groundwater	1	08/14/2023 11:34
23071811-009	G209	Groundwater	1	08/14/2023 10:46
23071811-010	G212	Groundwater	1	08/10/2023 15:28
23071811-011	G213	Groundwater	1	08/10/2023 15:08
23071811-012	G215	Groundwater	1	08/10/2023 14:16
23071811-013	G217	Groundwater	1	08/10/2023 13:25
23071811-014	G218	Groundwater	1	08/10/2023 12:53
23071811-015	G270	Groundwater	1	08/14/2023 13:45
23071811-016	G271	Groundwater	1	08/14/2023 13:15
23071811-017	G273	Groundwater	1	08/14/2023 14:32
23071811-018	G275	Groundwater	1	
23071811-019	G275D	Groundwater	1	08/14/2023 11:20
23071811-020	G276	Groundwater	1	08/14/2023 12:35
23071811-021	G277	Groundwater	1	
23071811-022	G279	Groundwater	1	
23071811-023	G280	Groundwater	1	08/14/2023 14:48
23071811-024	G281	Groundwater	1	08/14/2023 16:06
23071811-025	G283	Groundwater	1	08/15/2023 11:45
23071811-026	G284	Groundwater	1	08/15/2023 10:10
23071811-027	G285	Groundwater	1	08/15/2023 11:04
23071811-028	G301	Groundwater	1	08/09/2023 11:13
23071811-029	G302	Groundwater	1	08/09/2023 11:55
23071811-030	G303	Groundwater	1	08/09/2023 15:26
23071811-031	G305	Groundwater	1	08/10/2023 12:36
23071811-032	G306	Groundwater	1	08/10/2023 11:01
23071811-033	G307	Groundwater	1	08/10/2023 0:00
23071811-034	G307D	Groundwater	1	08/10/2023 12:12
23071811-035	G308	Groundwater	1	08/10/2023 13:00
23071811-036	G310	Groundwater	1	08/09/2023 10:36
23071811-037	G312	Groundwater	1	08/09/2023 12:28
23071811-038	G313	Groundwater	1	08/09/2023 14:12
23071811-039	G314	Groundwater	1	08/09/2023 14:33



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071811-040	G314D	Groundwater	1	08/09/2023 14:53
23071811-041	G315	Groundwater	1	08/10/2023 11:29
23071811-042	G316	Groundwater	1	08/09/2023 13:43
23071811-043	G401	Groundwater	1	08/11/2023 11:22
23071811-044	G402	Groundwater	1	08/11/2023 12:09
23071811-045	G403	Groundwater	1	08/11/2023 10:51
23071811-046	G404	Groundwater	1	08/14/2023 15:43
23071811-047	G405	Groundwater	1	08/11/2023 12:41
23071811-048	G406	Groundwater	1	08/11/2023 10:13
23071811-049	G407	Groundwater	1	08/10/2023 14:32
23071811-050	G410	Groundwater	1	08/10/2023 14:58
23071811-051	G411	Groundwater	1	08/10/2023 15:24
23071811-052	G1001	Groundwater	1	08/15/2023 0:00
23071811-053	NE Riser	Leachate	1	08/15/2023 13:12
23071811-054	R201	Groundwater	1	08/15/2023 0:00
23071811-055	X201	Leachate	1	08/15/2023 12:53
23071811-056	XPW01	Groundwater	1	08/10/2023 13:22
23071811-057	XPW02	Groundwater	1	08/10/2023 13:45
23071811-058	Field Blank	Aqueous	1	08/15/2023 10:35
23071811-059	G200 Duplicate	Groundwater	1	08/15/2023 0:00
23071811-060	G273 Duplicate	Groundwater	1	08/14/2023 14:32
23071811-061	G301 Duplicate	Groundwater	1	08/09/2023 11:11
23071811-062	R201 Duplicate	Groundwater	1	08/15/2023 0:00



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
23071811-001A	G151	08/10/2023 10:10	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-002A	G152	08/10/2023 12:09	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-003A	G153	08/10/2023 11:38	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-004A	G154	08/10/2023 11:13	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-005A	G155	08/10/2023 10:46	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-007A	G206	08/14/2023 11:52	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-008A	G206D	08/14/2023 11:34	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-009A	G209	08/14/2023 10:46	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-010A	G212	08/10/2023 15:28	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 11:58			
23071811-011A	G213	08/10/2023 15:08	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 12:03			
23071811-012A	G215	08/10/2023 14:16	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 12:03			
23071811-013A	G217	08/10/2023 13:25	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 12:03			
23071811-014A	G218	08/10/2023 12:53	08/10/2023 17:30		
See Attached for Subcontracting Analysis		09/08/2023 12:04			
23071811-015A	G270	08/14/2023 13:45	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 12:04			
23071811-016A	G271	08/14/2023 13:15	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 12:04			
23071811-017A	G273	08/14/2023 14:32	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 12:04			
23071811-019A	G275D	08/14/2023 11:20	08/14/2023 18:10		
See Attached for Subcontracting Analysis		09/08/2023 12:04			
23071811-020A	G276	08/14/2023 12:35	08/14/2023 18:10		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23071811-023A	G280	08/14/2023 14:48	08/14/2023 18:10		09/08/2023 12:05
23071811-024A	G281	08/14/2023 16:06	08/14/2023 18:10		09/08/2023 12:05
23071811-025A	G283	08/15/2023 11:45	08/15/2023 15:18		09/07/2023 11:36
23071811-026A	G284	08/15/2023 10:10	08/15/2023 15:18		09/07/2023 11:36
23071811-027A	G285	08/15/2023 11:04	08/15/2023 15:18		09/07/2023 11:37
23071811-028A	G301	08/09/2023 11:13	08/09/2023 17:52		09/07/2023 11:38
23071811-029A	G302	08/09/2023 11:55	08/09/2023 17:52		09/07/2023 11:38
23071811-030A	G303	08/09/2023 15:26	08/09/2023 17:52		09/07/2023 11:38
23071811-031A	G305	08/10/2023 12:36	08/10/2023 17:30		09/07/2023 11:38
23071811-032A	G306	08/10/2023 11:01	08/10/2023 17:30		09/07/2023 11:38
23071811-034A	G307D	08/10/2023 12:12	08/10/2023 17:30		09/07/2023 11:38
23071811-035A	G308	08/10/2023 13:00	08/10/2023 17:30		09/07/2023 11:39
23071811-036A	G310	08/09/2023 10:36	08/09/2023 17:52		09/07/2023 11:39
23071811-037A	G312	08/09/2023 12:28	08/09/2023 17:52		09/07/2023 11:39
23071811-038A	G313	08/09/2023 14:12	08/09/2023 17:52		09/07/2023 11:39
23071811-039A	G314	08/09/2023 14:33	08/09/2023 17:52		09/07/2023 11:39
23071811-040A	G314D	08/09/2023 14:53	08/09/2023 17:52		09/07/2023 11:39



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23071811-041A	G315	08/10/2023 11:29	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 11:56
23071811-042A	G316	08/09/2023 13:43	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/11/2023 11:56
23071811-043A	G401	08/11/2023 11:22	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:57
23071811-044A	G402	08/11/2023 12:09	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-045A	G403	08/11/2023 10:51	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-046A	G404	08/14/2023 15:43	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-047A	G405	08/11/2023 12:41	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-048A	G406	08/11/2023 10:13	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-049A	G407	08/10/2023 14:32	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-050A	G410	08/10/2023 14:58	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-051A	G411	08/10/2023 15:24	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-053A	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-055A	X201	08/15/2023 12:53	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-056A	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-057A	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:04
23071811-058A	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 12:04
23071811-060A	G273 Duplicate	08/14/2023 14:32	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/11/2023 12:04
23071811-061A	G301 Duplicate	08/09/2023 11:11	08/09/2023 17:52		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	See Attached for Subcontracting Analysis				09/11/2023 12:04



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Carrier: Justin Colp

Received By: ANC

Completed by:

Amber Dilallo

Reviewed by:

Ellie Hopkins

On:

10-Aug-23

Amber Dilallo

On:

15-Aug-23

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 3.4
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Any No responses must be detailed below or on the COC.

Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G301, G302, G303, G314, G314D and G316. - amberdilallo - 8/10/2023 10:56:36 AM

pH strip #90719. - amberdilallo - 8/10/2023 10:57:20 AM

Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G153, G155, G305, G308 and G407. - amberdilallo - 8/11/2023 9:43:53 AM

pH strip #90719. - amberdilallo - 8/11/2023 9:44:25 AM

Samples collected on 8/10/23 were delivered to the laboratory on 8/10/23 at 1730 (on ice 2.6C - LTG5). AMD/ERH 8/10/23

Samples collected on 8/14/23 were delivered to the laboratory on 8/14/23 at 1810 (on ice 5.8C - LTG5). ANC/ERH 8/15/23

pH strip #90719. - amberdilallo - 8/15/2023 3:54:51 PM

Samples collected on 8/15/23 were delivered to the laboratory on 8/15/23 at 1518 (on ice 12.4C - LTG1). TM/ERH 8/10/23

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes in text)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Analysis Test ↓	Residual Chlorine (Y/N)	Project No. / Lab I.D.				
										Preservatives																	
		DRINKING WATER DW								Unpreserved																	
		WATER WW								H ₂ SO ₄																	
		WASTE WATER WWV								HNO ₃																	
		PRODUCT P								HCl																	
		SOIL/SOLID SL								NaOH																	
		OIL OL								Na ₂ S ₂ O ₃																	
		WPE WP								Methanol																	
		AR AR								Other																	
		OTHER OT																									
		TISSUE TS																									
1	G101					8-9-23	1451																				
2	G102					8-9-23	1507																				
3	G103																										
4	G105																										
5	G106																										
6	G107																										
7	G108					8-9-23	0948																				
8	G109					8-9-23	1010																				
9	G110					8-9-23	1028																				
10	G111						1047																				
11	G119						1132																				
12	G120						1149																				
13	G121						1219																				
14	G122						1237																				
15	G123						1257																				
16	G124						1313																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0 Ra226/228, only.	J. Galp	8-9	1752	Justin Galp	8/9	1752	3.4	Y N		
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SAMPLER NAME AND SIGNATURE										
PRINT Name of SAMPLER: Justin Galp										
SIGNATURE of SAMPLER: [Signature]							DATE Signed (MM/DD/YY): 8-9-23			

Added HNO3 (92447) to G301, G302, G303, G314, G314D & G316. pH v 90719. Sm 8/10/23

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey				NPDES	GROUND WATER	DRINKING WATER
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp				UST	RCRA	OTHER
		Address: see Section A						
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:				Site Location		IL
Phone: (217) 753-8911	Fax:	Project Name:				STATE:		
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:						

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRECIPIT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)											Project No. / Lab I.D.							
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104		COF-WPCP-108	Residual Chlorine (Y/N)					
1	G125				8-9-23 1327																																
2	G126				8-9-23 1401																																
3	G151						2																													23071811-001	
4	G152						2																													002	
5	G153						2																													003	
6	G154						2																													004	
7	G155						2																													005	
8	G200						2																													006	
9	G206						2																													007	
10	G206D						2																													008	
11	G207																																				
12	G208																																				
13	G209						2																														009
14	G210																																				
15	G211																																				
16	G212						2																														010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Gop	8-9	1752	Jason Stuckey	8/9	1752	Y N

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Init'd (Y/N)
PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:					
Jason Gop		JAG					
DATE Signed (MM/DD/YY):							
8-9-23							

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:	
				Profile #:	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location		IL
STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.
					DATE	TIME	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Residual Chlorine (Y/N)	
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					Methanol	Other
1	G279				2			2									23071811-022
2	G280				2			2									023
3	G281				2			2									024
4	G283				2			2									025
5	G284				2			2									026
6	G285				2			2									027
7	G286																
8	G287																
9	G288																
10	G301				8-9-23	1113	2		2								028
11	G302				8-9-23	1155	2		2								029
12	G303				8-9-23	1526	2		2								030
13	G305						2		2								031
14	G306						2		2								032
15	G307						2		2								033
16	G307D						2		2								034

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-9	1722	Justin Colp	8/9	1752	Y N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
Justin Colp	<i>Justin Colp</i>				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				
<i>Justin Colp</i>	8-9-23				

230971811

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 5 of 7
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Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp				NPDES	GROUND WATER	DRINKING WATER
		Address: see Section A	UST	RCRA	OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	Site Location IL		
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:				STATE: IL
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.					
		DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G308								2		2																									23071811-035
2	G309																																			036
3	G310					8-9-23	1036		2		2																								037	
4	G312					8-9-23	1228		2		2																								038	
5	G313					8-9-23	1412		2		2																								039	
6	G314					8-9-23	1433		2		2																								040	
7	G314D					8-9-23	1453		2		2																								041	
8	G315								2		2																								042	
9	G316					8-9-23	1343		2		2																									
10	G317																																			
11	G401								2		2																									043
12	G402								2		2																									044
13	G403								2		2																									045
14	G404								2		2																									046
15	G405								2		2																									047
16	G406								2		2																									048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q3 Rev 0	J. Colp	8-9	1752	Justin Colp	8/9	1732	Y	N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Colp				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	8-9-23		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:	
				Profile #:	
REGULATORY AGENCY					
NPDES		GROUND WATER		DRINKING WATER	
UST		RCRA		OTHER	
Site Location				IL	
STATE:					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.									
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)						
1	G101																																						
2	G102																																						
3	G103				8-10-23	0823																																	
4	G105					0859																																	
5	G106					0916																																	
6	G107					0943																																	
7	G108																																						
8	G109																																						
9	G110																																						
10	G111																																						
11	G119																																						
12	G120																																						
13	G121																																						
14	G122																																						
15	G123																																						
16	G124																																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0 Ra226/228, only.	J. Glop	8-10	1730	Steve Daniels	8/10/23	1730	26 Y N Y UIC5

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
Justin Glop					
[Signature]		DATE Signed (MM/DD/YY):			
		8-10-23			

HNO₃ (92447) added to G153, G155, G305, G308, G407 ERA 8/11/23
90719

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location:</td> <td>IL</td> </tr> <tr> <td colspan="2">Requested Due Date/TAT: 10 day</td> <td colspan="2">Project Number: 2285</td> <td colspan="2">Profile #:</td> <td colspan="3">STATE:</td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location:		IL	Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE:		
REGULATORY AGENCY																													
NPDES	GROUND WATER	DRINKING WATER																											
UST	RCRA	OTHER																											
Site Location:		IL																											
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE:																							
Company: <u>Vistra Corp</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Jason Stuckey</u>	Address: <u>13498 E. 900th St</u>	Copy To: <u>Jason Stuckey</u>	Company Name: <u>Vistra Corp</u>	Address: <u>see Section A</u>																							
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No.:	Quote Reference:	Phone: <u>(217) 753-8911</u>	Fax:	Project Name:	Project Manager:	Requested Due Date/TAT: <u>10 day</u>																						
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Profile #:		STATE:																							

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Requested Analysis Filtered (Y/N)															Project No./ Lab I.D.			
		MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
		DRINKING WATER	DW																																		
1	G125																																				
2	G126																																				
3	G151					8-10-23	1010		2		2																									23071811-001	
4	G152					↓	1209		2		2																									002	
5	G153						1138		2		2																									003	
6	G154						1113		2		2																									004	
7	G155					↓	1046		2		2																									005	
8	G200								2		2																									006	
9	G206								2		2																									007	
10	G206D								2		2																									008	
11	G207																																				
12	G208																																				
13	G209								2		2																										009
14	G210																																				
15	G211																																				
16	G212					8-10-23	1528		2		2																										010

ADDITIONAL COMMENTS <u>COF-23Q3 Rev 0</u>	RELINQUISHED BY / AFFILIATION <u>J. Cole</u>	DATE <u>8-10</u>	TIME <u>1730</u>	ACCEPTED BY / AFFILIATION <u>Jason Stuckey</u>	DATE <u>8/10/23</u>	TIME <u>1730</u>	SAMPLE CONDITIONS Y N
--	---	---------------------	---------------------	---	------------------------	---------------------	--------------------------

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>J. Cole</u>					
SIGNATURE of SAMPLER: <u>J. Cole</u>	DATE Signed (MM/DD/YYYY): <u>8-10-23</u>				

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location:</td> <td>IL</td> </tr> <tr> <td colspan="2">STATE:</td> <td></td> </tr> </table>		REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location:		IL	STATE:		
REGULATORY AGENCY																						
NPDES	GROUND WATER	DRINKING WATER																				
UST	RCRA	OTHER																				
Site Location:		IL																				
STATE:																						
Company: <u>Vistra Corp</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Jason Stuckey</u>	Company Name: <u>Vistra Corp</u>	Address: <u>see Section A</u>																		
Address: <u>13498 E. 900th St</u>	Copy To: <u>Jason Stuckey</u>	Quote Reference:	Project Name:		Project Number: <u>2285</u>																	
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No.:	Project Manager:	Requested Due Date/TAT: <u>10 day</u>		Profile #:																	
Phone: <u>(217) 753-8911</u> Fax:	Project Name:		Requested Analysis Filtered (Y/N)																			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE CRACK/C WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT ISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103		COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G213				8-10-23	1508		2		2																		23071811-011
2	G214					1450																						012
3	G215					1416		2		2																		013
4	G216					1347																						014
5	G217					1325		2		2																		015
6	G218					1253		2		2																		016
7	G270							2		2																		017
8	G271							2		2																		018
9	G272																											019
10	G273							2		2																		020
11	G274																											021
12	G275							2		2																		
13	G275D							2		2																		
14	G276							2		2																		
15	G277							2		2																		
16	G278							2		2																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0	J. Galp	8-10	1730	Justin Galp	8/10/23	1730	4	2

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Galp				
SIGNATURE of SAMPLER:	[Signature]				
DATE Signed (MM/DD/YY):		8-10-23			

2023-09-18

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp				
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		UST RCRA OTHER		
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		Site Location		IL
						STATE:		

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives							Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.		
					DATE	TIME		# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test												
																	Y/N												
1	G279						2		2																			23071811-022	
2	G280						2		2																			023	
3	G281						2		2																			024	
4	G283						2		2																			025	
5	G284						2		2																			026	
6	G285						2		2																			027	
7	G286																												
8	G287																												
9	G288																												
10	G301						2		2																				028
11	G302						2		2																				029
12	G303						2		2																				030
13	G305						8-10-23	1236	2	2																			031
14	G306							1101	2	2																			032
15	G307 (AAT Pump)							N/A	2	2																			033
16	G307D							1712	2	2																			034

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0	J. Colp	8-10		Brian Stuckey	8/10/23	1230	Y	N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	J. Colp				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	8-10-23		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: **5** of **7**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:				

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.					
		MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	
		DW	WT			WW	P			SL	OL	WP	AR	OT	TS																				
1	G308					8-10-23	1308		2		2																						23071811-035		
2	G309								2		2																						036		
3	G310								2		2																						037		
4	G312								2		2																						038		
5	G313								2		2																						039		
6	G314								2		2																						040		
7	G314D								2		2																						041		
8	G315					8-10-23	1129		2		2																						042		
9	G316								2		2																							043	
10	G317								2		2																							044	
11	G401								2		2																							045	
12	G402								2		2																							046	
13	G403								2		2																							047	
14	G404								2		2																							048	
15	G405								2		2																								
16	G406								2		2																								
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																									
COF-23Q3 Rev 0		J. Colp		8-10		Amie Adams		8/10/23	1730	Y N																									
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)																						
PRINT Name of SAMPLER: Justin Colp					SIGNATURE of SAMPLER: <i>[Signature]</i>									DATE Signed (MM/DD/YY): 8-10-23																					

COF-23Q3
23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:	
				Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives												Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.
						Unpreserved												Analysis Test ↓												
						H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)			
1	G407		8-10-23 1432		2	2																					23071811-049			
2	G410		↓ 1458		2	2																					050			
3	G411		↓ 1524		2	2																					057			
4	G1001				2	2																					052			
5	G1003																													
6	L203																													
7	MW03D																													
8	MW11D																													
9	MW11S																													
10	MW12D																													
11	MW16D																													
12	MW16S																													
13	MW20S																													
14	NE Riser				2	2																					053			
15	R104		8-10-23 0840		2	2																								
16	R201				2	2																					054			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Colp		8-10	1730	Justin Colp		8/10/23	1730	Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
Justin Colp					
[Signature]					
DATE Signed (MM/DD/YY):					
8-10-23					

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 7 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		Site Location	
Address:		Address: see Section A		Address: see Section A		IL	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE:	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)													Project No./ Lab I.D.								
							COLLECTED									Analysis Test ↓	Residual Chlorine (Y/N)											
							Preservatives									COF-257-101	COF-257-102	COF-257-103	COF-257-104		COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other														
1	R205																											
2	SG-02																											
3	SG-03																											
4	SG-04																											
5	T127																											
6	T128																											
7	X201					2																					23071811-055	
8	XPW01		8-10-23	1322		2																					056	
9	XPW02		8-10-23	1345		2																						057
10	XSG-01																											
11	Field Blank					2																						058
12	G102 Duplicate																											
13	G200 Duplicate					2																						059
14	G273 Duplicate					2																						060
15	G301 Duplicate					2																						061
16	R201 Duplicate					2																						062

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Giv	8-10		DMR, Deales	8/10/23	1735	Y N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
Justin Giv	<i>[Signature]</i>				

DATE Signed (MM/DD/YY): 8-10-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:	
		Profile #:		REGULATORY AGENCY	
				NPDES GROUND WATER DRINKING WATER	
				UST RCRA OTHER	
				Site Location	
				STATE: IL	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Project No./ Lab I.D.													
								Preservatives																								
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G213																															
2	G214																															
3	G215																															
4	G216																															
5	G217																															
6	G218																															
7	G270		X		8-14-23	1345																									-015	
8	G271				8-14-23	1315																									-016	
9	G272				8-14-23	1411																									-017	
10	G273		X		8-14-23	1432																									-018	
11	G274				8-14-23	1200																									-019	
12	G275				8-14-23	DRY																									-018	
13	G275D		X		8-14-23	1120																									-019	
14	G276		X		8-14-23	1235																									-020	
15	G277				8-14-23	DRY																									-021	
16	G278																															8/15

ERLH
8/15/23
021

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		
COF-23Q3 Rev 0		J. GOLF		8-14	1810	Allen Colton		8/14	1810			

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:		JUSTIN GOLF				
SIGNATURE of SAMPLER:		<i>[Signature]</i>				
DATE Signed (MM/DD/YY):			8-14-23			

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 7

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	REGULATORY AGENCY		
Company: <u>Vistra Corp</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Jason Stuckey</u>			
Address: <u>13498 E. 900th St</u>	Copy To: <u>Jason Stuckey</u>	Company Name: <u>Vistra Corp</u>	NPDES GROUND WATER DRINKING WATER		
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No.:	Address: <u>see Section A</u>	UST RCRA OTHER		
Phone: (217) 753-8911 Fax:	Project Name:	Quote Reference:	Site Location	IL	
Requested Due Date/TAT: 10 day	Project Number: <u>2285</u>	Project Manager:	STATE:		
		Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)										Project No. / Lab I.D.							
		MATRIX	CODE						UNPRESERVED	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103		COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	
1	G279				<u>8-14-23</u>	<u>1814</u>																											<u>022</u>	
2	G280				<u>8-14-23</u>	<u>1448</u>																											<u>023</u>	
3	G281				<u>8-14-23</u>	<u>1606</u>																											<u>024</u>	
4	G283																																	
5	G284																																	
6	G285																																	
7	G286																																	
8	G287																																	
9	G288																																	
10	G301																																	
11	G302																																	
12	G303																																	
13	G305																																	
14	G306																																	
15	G307																																	
16	G307D																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLER NAME AND SIGNATURE	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	<u>J. Colp</u>	<u>8-14</u>	<u>1810</u>	<u>Justin Colp</u>	<u>8/14</u>	<u>1810</u>	PRINT Name of SAMPLER: <u>Justin Colp</u> SIGNATURE of SAMPLER: <u>JCP</u>				
				DATE Signed (MM/DD/YY): <u>8-14-23</u>							

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: **Vistra Corp**
 Address: **13498 E. 900th St**
 Email To: **Brian.Voelker@VistraCorp.com**
 Phone: **(217) 753-8911** Fax:
 Requested Due Date/TAT: **10 day**

Section B

Required Project Information:

Report To: **Brian Voelker**
 Copy To: **Jason Stuckey**
 Purchase Order No.:
 Project Name:
 Project Number: **2285**

Section C

Invoice Information:

Attention: **Jason Stuckey**
 Company Name: **Vistra Corp**
 Address: **see Section A**
 Quote Reference:
 Project Manager:
 Profile #:

Page: **7** of **7**

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location		
STATE: IL		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.																				
					Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Ni ₂ S ₂ O ₈	Methanol	Other	Analysis Test ↓	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		Residual Chlorine (Y/N)																			
1	R205		8-14-23 1534													COF-257-101		COF-257-102		COF-257-103		COF-257-104		COF-257-105		COF-811-105		COF-845-101		COF-845-102		COF-845-103		COF-845-104		COF-SUP-000		COF-WPCP-102		COF-WPCP-103-104		COF-WPCP-106			5824 5/15/23
2	SG-02																																												
3	SG-03																																												
4	SG-04																																												
5	T127																																												
6	T128																																												
7	X201 PAINT WATER		8-14-23 N/A																																										
8	XPW01																																												
9	XPW02																																												
10	XSG-01																																												
11	Field Blank																																												
12	G102 Duplicate																																												
13	G200 Duplicate																																												
14	G273 Duplicate		8-14-23 1432 1507 JL																																										
15	G301 Duplicate																																												
16	R201 Duplicate																																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	<i>J. Cold</i>	8-14	1810	<i>Alton Cole</i>	8/14	1810	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Justin Cold</i>					
SIGNATURE of SAMPLER:	<i>Justin Cold</i>		DATE Signed (MM/DD/YY):	8-14-23		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WAPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.					
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1		G213																																23071811-011	
2		G214																																012	
3		G215																																013	
4		G216																																014	
5		G217																																015	
6		G218																																016	
7		G270																																017	
8		G271																																018	
9		G272																																019	
10		G273																																020	
11		G274																																021	
12		G275																																	
13		G275D																																	
14		G276																																	
15		G277																																	
16		G278 <i>inlet water</i>																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q3 Rev 0	<i>J. Glop</i>	<i>8-15</i>	<i>1518</i>	<i>[Signature]</i>	<i>8-15-23</i>	<i>1518</i>			

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Justin Glop</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	<i>8-15-23</i>		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.						
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	Y/N	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104		COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	
																																		DRINKING WATER DW
1		G279																															23071811-022	
2		G280																															023	
3		G281																															024	
4		G283		8-15-23	1145																												025	
5		G284			1010																												026	
6		G285		↓	1104																												027	
7		G286																																
8		G287																																
9		G288																																
10		G301																																028
11		G302																																029
12		G303																																030
13		G305																																031
14		G306																																032
15		G307																																033
16		G307D																																034

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-15	1518	<i>[Signature]</i>	8-15-23	1515	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Justin Colp</i>	SIGNATURE of SAMPLER: <i>JA on</i>				
DATE Signed (MM/DD/YY): <i>8-15-23</i>					

TE
8/15/23

23071811
09-15-102

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: Page: **7** of **7**

Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location		IL
STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
		MATRIX	CODE						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Y	N			
		DRINKING WATER	DW																		
1	R205																				
2	SG-02																				
3	SG-03																				
4	SG-04																				
5	T127																				
6	T128																				
7	X201 Filter in Lab				8-15-23	1253												23071811-054055			
8	XPW01																	056			
9	XPW02																	057			
10	XSG-01																				
11	Field Blank				8-15-23	1035												058			
12	G102 Duplicate																				
13	G200 Duplicate				8-15-23	084												059			
14	G273 Duplicate																	060			
15	G301 Duplicate																	061			
16	R201 Duplicate				8-15-23	084												062			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-15	1578	<i>[Signature]</i>	8-15-23	1518	

SAMPLER NAME AND SIGNATURE		Temp. in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Justin Colp</i>	SIGNATURE OF SAMPLER: <i>[Signature]</i>				
DATE Signed (MM/DD/YY): <i>8-15-23</i>					

TE 4mm 8/15/23
23071811-054055
056
057
058
059
060
061
062

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 9/15/2023 5:25:50 PM

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23071811-1

JOB NUMBER

160-51097-1

Eurofins St. Louis

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 TestAmerica Project Manager.

Authorization



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9/15/2023 5:25:50 PM

Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566



Table of Contents

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Tracer Carrier Summary	27

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-1
SDG: 23071811-1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative 160-51097-1

Receipt

The samples were received on 8/16/2023 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved. The temperature of the cooler at receipt was 18.2° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: 23071811-006A (160-51097-6), 23071811-018A (160-51097-18), 23071811-021A (160-51097-21), 23071811-022A (160-51097-22), 23071811-033A (160-51097-33), 23071811-052A (160-51097-52), 23071811-054A (160-51097-54), 23071811-059A (160-51097-59) and 23071811-062A (160-51097-62). The COC states that these samples were dry or couldn't be pumped.

RAD

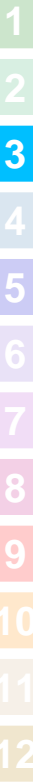
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Method 904.0: Radium-228

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23071811-002A (160-51097-2), 23071811-005A (160-51097-5), 23071811-014A (160-51097-14) and 23071811-020A (160-51097-20)

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



TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: J. Riley/B. Gillion/J. Colp QC Level: 3

Project#: 23071811

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com

Requested Due Date: Standat TAT Billing/PO: 34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.



Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-001A	8/10/23 10:10	HNO3	Groundwater
	23071811-002A	8/10/23 12:09	HNO3	Groundwater
	23071811-003A	8/10/23 11:38	HNO3	Groundwater
	23071811-004A	8/10/23 11:13	HNO3	Groundwater
	23071811-005A	8/10/23 10:46	HNO3	Groundwater
	23071811-006A	Dry	HNO3	Groundwater
	23071811-007A	8/14/23 11:52	HNO3	Groundwater
	23071811-008A	8/14/23 11:34	HNO3	Groundwater
	23071811-009A	8/14/23 10:46	HNO3	Groundwater
	23071811-010A	8/10/23 15:28	HNO3	Groundwater
	23071811-011A	8/10/23 15:08	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-16-23 11:30	<i>[Signature]</i>	8-16-23 4:20 PM
<i>[Signature]</i>	8-16-23 5:25 PM	<i>[Signature]</i>	8/16/23 1716

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Project#: 23071811
Cooler Temp: _____
Sampler: J. Riley/B. Gillihan/J. Colp
QC Level: 3

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 34883
Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-012A	8/10/23 14:16	HNO3	Groundwater
	23071811-013A	8/10/23 13:25	HNO3	Groundwater
	23071811-014A	8/10/23 12:53	HNO3	Groundwater
	23071811-015A	8/14/23 1345	HNO3	Groundwater
	23071811-016A	8/14/23 1315	HNO3	Groundwater
	23071811-017A	8/14/23 1432	HNO3	Groundwater
	23071811-018A	DAY	HNO3	Groundwater
	23071811-019A	8/14/23 1120	HNO3	Groundwater
	23071811-020A	8/14/23 1235	HNO3	Groundwater
	23071811-021A	DAY	HNO3	Groundwater
	23071811-022A	DAY	HNO3	Groundwater

*Relinquished By: *[Signature]* Date/Time: 8-16-23 16:30
 Received By: *[Signature]* Date/Time: 8-16-23 8:15 PM
 Comments: Please issue reports and invoices via email only
 Please analyze for Radium 22/228 per standard GW methods.
 Changes to methods must be approved by Teklab, Inc.
 Batch QC is required for all analyses requested. Excel EDD requested. IL site.
 Ra226/228

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Project#: 23071811

Contact: Elizabeth Hurley
Requested Due Date: Standad TAT

Sampler: J. Riley/B. Gillihan/J. Colp
Cooler Temp: QC Level: 3

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Email: ehurley@teklabinc.com
Billing/PO: 34883
Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-023A	8/14/23 1448	HNO3	Groundwater
	23071811-024A	8/14/23 1606	HNO3	Groundwater
	23071811-025A	8/15/23 1145	HNO3	Groundwater
	23071811-026A	8/15/23 1010	HNO3	Groundwater
	23071811-027A	8/15/23 1104	HNO3	Groundwater
	23071811-028A	8/9/23 1113	HNO3	Groundwater
	23071811-029A	8/9/23 1155	HNO3	Groundwater
	23071811-030A	8/9/23 1526	HNO3	Groundwater
	23071811-031A	8/10/23 1236	HNO3	Groundwater
	23071811-032A	8/10/23 1101	HNO3	Groundwater
	23071811-033A	Can't Pump	HNO3	Groundwater

*Relinquished By: *[Signature]* Date/Time: 8-15-23 11:30
 Received By: *[Signature]* Date/Time: 8-16-23 9:20
[Signature] Date/Time: 8-16-23 17:15

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: _____ Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments: Please issue reports and invoices via email only

Please analyze for Radium 226/228 per standard GW methods.

Changes to methods must be approved by Teklab, Inc.

Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project#: 23071811

Contact: Elizabeth Hurley
Requested Due Date: Standat TAT

Email: ehurley@teklabinc.com
Billing/PO: 34883

Phone: 618 344-1004 ext. 33

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Radium 226/228		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-034A	8/10/23 12:12	HNO3	Groundwater
	23071811-035A	8/10/23 13:08	HNO3	Groundwater
	23071811-036A	8/9/23 1036	HNO3	Groundwater
	23071811-037A	8/9/23 1228	HNO3	Groundwater
	23071811-038A	8/9/23 1412	HNO3	Groundwater
	23071811-039A	8/9/23 1433	HNO3	Groundwater
	23071811-040A	8/9/23 1453	HNO3	Groundwater
	23071811-041A	8/10/23 11:29	HNO3	Groundwater
	23071811-042A	8/9/23 1343	HNO3	Groundwater
	23071811-043A	8-11-23 1122	HNO3	Groundwater
	23071811-044A	8-11-23 1204	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
	8-11-23 16:30		8-16-23 9:20
	8-16-23 8:15 PM	Singh Wadgani	8/16/23 1715

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: J. Riley/B. Gillihan/J. Colp QC Level:

Project#: 23071811
Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standart TAT Billing/PO: 34883
Phone: 618 344-1004 ext. 33

Comments: **Please issue reports and invoices via email only**

Please analyze for Radium 226/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

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Ra226/228

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-045A	8-11-23 10:51	HNO3	Groundwater
	23071811-046A	8/14/23 15:43	HNO3	Groundwater
	23071811-047A	8-11-23 12:41	HNO3	Groundwater
	23071811-048A	8-11-23 10:13	HNO3	Groundwater
	23071811-049A	8/10/23 14:32	HNO3	Groundwater
	23071811-050A	8/10/23 14:58	HNO3	Groundwater
	23071811-051A	8/10/23 15:24	HNO3	Groundwater
	23071811-052A	Dry	HNO3	Groundwater
	23071811-053A	8/15/23 13:12	HNO3	Groundwater
	23071811-054A	Dry	HNO3	Groundwater
	23071811-055A	8/15/23 12:53	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-11-23 16:30	<i>[Signature]</i>	8-10-23 9:20
<i>[Signature]</i>	8-10-23 6:15 PM	Sina Wagoner	8/10/23 17:15

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Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51097-1

SDG Number: 23071811-1

Login Number: 51097

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

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.	False	Samples listed as Dry under Sample Date/Time were not received.
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	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Method Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-1
SDG: 23071811-1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51097-1	23071811-001A	Water	08/10/23 10:10	08/16/23 17:15
160-51097-2	23071811-002A	Water	08/10/23 12:09	08/16/23 17:15
160-51097-3	23071811-003A	Water	08/10/23 11:38	08/16/23 17:15
160-51097-4	23071811-004A	Water	08/10/23 11:13	08/16/23 17:15
160-51097-5	23071811-005A	Water	08/10/23 10:46	08/16/23 17:15
160-51097-7	23071811-007A	Water	08/14/23 11:52	08/16/23 17:15
160-51097-8	23071811-008A	Water	08/14/23 11:34	08/16/23 17:15
160-51097-9	23071811-009A	Water	08/14/23 10:46	08/16/23 17:15
160-51097-10	23071811-010A	Water	08/10/23 15:28	08/16/23 17:15
160-51097-11	23071811-011A	Water	08/10/23 15:08	08/16/23 17:15
160-51097-12	23071811-012A	Water	08/10/23 14:16	08/16/23 17:15
160-51097-13	23071811-013A	Water	08/10/23 13:25	08/16/23 17:15
160-51097-14	23071811-014A	Water	08/10/23 12:53	08/16/23 17:15
160-51097-15	23071811-015A	Water	08/14/23 13:45	08/16/23 17:15
160-51097-16	23071811-016A	Water	08/14/23 13:15	08/16/23 17:15
160-51097-17	23071811-017A	Water	08/14/23 14:32	08/16/23 17:15
160-51097-19	23071811-019A	Water	08/14/23 11:20	08/16/23 17:15
160-51097-20	23071811-020A	Water	08/14/23 12:35	08/16/23 17:15



Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
 SDG: 23071811-1

Client Sample ID: 23071811-001A

Lab Sample ID: 160-51097-1

Date Collected: 08/10/23 10:10

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0896	U	0.0833	0.0837	1.00	0.127	pCi/L	08/22/23 09:46	09/13/23 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/22/23 09:46	09/13/23 21:42	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	0.890		0.408	0.416	1.00	0.538	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.9		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.980		0.416	0.424	5.00	0.538	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-002A

Lab Sample ID: 160-51097-2

Date Collected: 08/10/23 12:09

Matrix: Water

Date Received: 08/16/23 17:15

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	0.390		0.255	0.257	1.00	0.353	pCi/L	08/22/23 09:46	09/13/23 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.2		30 - 110					08/22/23 09:46	09/13/23 21:42	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	0.911	U G	0.885	0.889	1.00	1.41	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	82.6		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.30	U	0.921	0.925	5.00	1.41	pCi/L		09/15/23 15:57	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-1
 SDG: 23071811-1

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-003A
 Date Collected: 08/10/23 11:38
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-3
 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	0.174	U	0.148	0.149	1.00	0.226	pCi/L	08/22/23 09:46	09/13/23 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/22/23 09:46	09/13/23 21:42	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	0.0882	U	0.467	0.467	1.00	0.851	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	80.7		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.262	U	0.490	0.490	5.00	0.851	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-004A
 Date Collected: 08/10/23 11:13
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-4
 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	0.206		0.111	0.113	1.00	0.143	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.134	U	0.376	0.376	1.00	0.659	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	83.4		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.339	U	0.392	0.393	5.00	0.659	pCi/L		09/15/23 15:57	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-1
 SDG: 23071811-1

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-005A

Lab Sample ID: 160-51097-5

Date Collected: 08/10/23 10:46

Matrix: Water

Date Received: 08/16/23 17:15

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	1.47		0.391	0.413	1.00	0.335	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10	U G	0.906	0.911	1.00	1.41	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.1		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.57		0.987	1.00	5.00	1.41	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-007A

Lab Sample ID: 160-51097-7

Date Collected: 08/14/23 11:52

Matrix: Water

Date Received: 08/16/23 17:15

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	0.192		0.102	0.104	1.00	0.119	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.452	U	0.368	0.370	1.00	0.566	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	83.4		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.645		0.382	0.384	5.00	0.566	pCi/L		09/15/23 15:57	1

Eurofins St. Louis

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-1
 SDG: 23071811-1

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-008A

Lab Sample ID: 160-51097-8

Date Collected: 08/14/23 11:34

Matrix: Water

Date Received: 08/16/23 17:15

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	0.334		0.126	0.130	1.00	0.125	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.535	U	0.394	0.397	1.00	0.601	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.1		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.870		0.414	0.418	5.00	0.601	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-009A

Lab Sample ID: 160-51097-9

Date Collected: 08/14/23 10:46

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0518	U	0.0700	0.0701	1.00	0.118	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.324	U	0.329	0.331	1.00	0.530	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.5		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.376	U	0.336	0.338	5.00	0.530	pCi/L		09/15/23 15:57	1

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Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
 SDG: 23071811-1

Client Sample ID: 23071811-010A
 Date Collected: 08/10/23 15:28
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-10
 Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0256	U	0.0480	0.0480	1.00	0.121	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.408	U	0.362	0.364	1.00	0.570	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	83.4		30 - 110					08/22/23 09:48	09/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.408	U	0.365	0.367	5.00	0.570	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-011A
 Date Collected: 08/10/23 15:08
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-11
 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	0.0681	U	0.0987	0.0989	1.00	0.168	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0868	U	0.317	0.317	1.00	0.568	pCi/L	08/22/23 09:48	09/08/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					08/22/23 09:48	09/08/23 12:03	1
Y Carrier	89.0		30 - 110					08/22/23 09:48	09/08/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.155	U	0.332	0.332	5.00	0.568	pCi/L		09/15/23 15:57	1

Client Sample Results

245 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
 SDG: 23071811-1

Client Sample ID: 23071811-012A
 Date Collected: 08/10/23 14:16
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-12
 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	0.170		0.0977	0.0989	1.00	0.125	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.480	U	0.365	0.368	1.00	0.558	pCi/L	08/22/23 09:48	09/08/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:48	09/08/23 12:03	1
Y Carrier	85.2		30 - 110					08/22/23 09:48	09/08/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.650		0.378	0.381	5.00	0.558	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-013A
 Date Collected: 08/10/23 13:25
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-13
 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	0.410		0.192	0.196	1.00	0.228	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.397	U	0.525	0.526	1.00	0.878	pCi/L	08/22/23 09:48	09/08/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		30 - 110					08/22/23 09:48	09/08/23 12:03	1
Y Carrier	85.2		30 - 110					08/22/23 09:48	09/08/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.807	U	0.559	0.561	5.00	0.878	pCi/L		09/15/23 15:57	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-1
 SDG: 23071811-1

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-014A
 Date Collected: 08/10/23 12:53
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-14
 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	0.297	U	0.298	0.299	1.00	0.468	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	30.3		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.17	U G	1.46	1.48	1.00	2.19	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	30.3		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	89.7		30 - 110					08/22/23 09:48	09/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.46		1.49	1.51	5.00	2.19	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-015A
 Date Collected: 08/14/23 13:45
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-15
 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	0.0429	U	0.0929	0.0930	1.00	0.166	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.380	0.381	1.00	0.661	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	83.0		30 - 110					08/22/23 09:48	09/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.217	U	0.391	0.392	5.00	0.661	pCi/L		09/15/23 15:57	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-1
 SDG: 23071811-1

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-016A

Lab Sample ID: 160-51097-16

Date Collected: 08/14/23 13:15

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0522	U	0.0851	0.0852	1.00	0.147	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442	U	0.356	0.359	1.00	0.552	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	87.9		30 - 110					08/22/23 09:48	09/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.495	U	0.366	0.369	5.00	0.552	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-017A

Lab Sample ID: 160-51097-17

Date Collected: 08/14/23 14:32

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0657	U	0.0835	0.0837	1.00	0.139	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.394	U	0.317	0.319	1.00	0.485	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	86.0		30 - 110					08/22/23 09:48	09/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.460	U	0.328	0.330	5.00	0.485	pCi/L		09/15/23 15:57	1

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Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
 SDG: 23071811-1

Client Sample ID: 23071811-019A

Lab Sample ID: 160-51097-19

Date Collected: 08/14/23 11:20

Matrix: Water

Date Received: 08/16/23 17:15

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	0.448		0.189	0.193	1.00	0.221	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.510	0.511	1.00	0.879	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	83.0		30 - 110					08/22/23 09:48	09/08/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.735	U	0.544	0.546	5.00	0.879	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-020A

Lab Sample ID: 160-51097-20

Date Collected: 08/14/23 12:35

Matrix: Water

Date Received: 08/16/23 17:15

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	0.304		0.172	0.174	1.00	0.217	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00460	U G	0.562	0.562	1.00	1.06	pCi/L	08/22/23 09:48	09/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		30 - 110					08/22/23 09:48	09/08/23 12:05	1
Y Carrier	85.2		30 - 110					08/22/23 09:48	09/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.309	U	0.588	0.588	5.00	1.06	pCi/L		09/15/23 15:57	1

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-624954/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624954

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03330	U	0.0668	0.0669	1.00	0.120	pCi/L	08/22/23 09:46	09/13/23 21:36	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	99.7		30 - 110		08/22/23 09:46	09/13/23 21:36	1			

Lab Sample ID: LCS 160-624954/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624954

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.996		1.07	1.00	0.107	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	97.5		30 - 110						

Lab Sample ID: LCSD 160-624954/3-A
Matrix: Water
Analysis Batch: 627939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624954

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.90		1.16	1.00	0.133	pCi/L	96	75 - 125	0.41	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	94.2		30 - 110								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-624955/1-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624955

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2999	U	0.298	0.299	1.00	0.477	pCi/L	08/22/23 09:48	09/08/23 11:57	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	99.7		30 - 110		08/22/23 09:48	09/08/23 11:57	1			
Y Carrier	86.4		30 - 110		08/22/23 09:48	09/08/23 11:57	1			

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QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
 SDG: 23071811-1

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

Lab Sample ID: LCS 160-624955/2-A
 Matrix: Water
 Analysis Batch: 627240

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 624955

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits												
Radium-228	7.89	8.160		1.15	1.00	0.448	pCi/L	103	75 - 125												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>97.5</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>86.0</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>										Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	97.5		30 - 110	Y Carrier	86.0		30 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																		
Ba Carrier	97.5		30 - 110																		
Y Carrier	86.0		30 - 110																		

Lab Sample ID: LCSD 160-624955/3-A
 Matrix: Water
 Analysis Batch: 627240

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 624955

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit												
Radium-228	7.89	7.989		1.15	1.00	0.505	pCi/L	101	75 - 125	0.07	1												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>LCSD %Yield</th> <th>LCSD Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>94.2</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>86.7</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>												Carrier	LCSD %Yield	LCSD Qualifier	Limits	Ba Carrier	94.2		30 - 110	Y Carrier	86.7		30 - 110
Carrier	LCSD %Yield	LCSD Qualifier	Limits																				
Ba Carrier	94.2		30 - 110																				
Y Carrier	86.7		30 - 110																				

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEE POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Rad

Prep Batch: 624954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-1	23071811-001A	Total/NA	Water	PrecSep-21	
160-51097-2	23071811-002A	Total/NA	Water	PrecSep-21	
160-51097-3	23071811-003A	Total/NA	Water	PrecSep-21	
160-51097-4	23071811-004A	Total/NA	Water	PrecSep-21	
160-51097-5	23071811-005A	Total/NA	Water	PrecSep-21	
160-51097-7	23071811-007A	Total/NA	Water	PrecSep-21	
160-51097-8	23071811-008A	Total/NA	Water	PrecSep-21	
160-51097-9	23071811-009A	Total/NA	Water	PrecSep-21	
160-51097-10	23071811-010A	Total/NA	Water	PrecSep-21	
160-51097-11	23071811-011A	Total/NA	Water	PrecSep-21	
160-51097-12	23071811-012A	Total/NA	Water	PrecSep-21	
160-51097-13	23071811-013A	Total/NA	Water	PrecSep-21	
160-51097-14	23071811-014A	Total/NA	Water	PrecSep-21	
160-51097-15	23071811-015A	Total/NA	Water	PrecSep-21	
160-51097-16	23071811-016A	Total/NA	Water	PrecSep-21	
160-51097-17	23071811-017A	Total/NA	Water	PrecSep-21	
160-51097-19	23071811-019A	Total/NA	Water	PrecSep-21	
160-51097-20	23071811-020A	Total/NA	Water	PrecSep-21	
MB 160-624954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624954/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-1	23071811-001A	Total/NA	Water	PrecSep_0	
160-51097-2	23071811-002A	Total/NA	Water	PrecSep_0	
160-51097-3	23071811-003A	Total/NA	Water	PrecSep_0	
160-51097-4	23071811-004A	Total/NA	Water	PrecSep_0	
160-51097-5	23071811-005A	Total/NA	Water	PrecSep_0	
160-51097-7	23071811-007A	Total/NA	Water	PrecSep_0	
160-51097-8	23071811-008A	Total/NA	Water	PrecSep_0	
160-51097-9	23071811-009A	Total/NA	Water	PrecSep_0	
160-51097-10	23071811-010A	Total/NA	Water	PrecSep_0	
160-51097-11	23071811-011A	Total/NA	Water	PrecSep_0	
160-51097-12	23071811-012A	Total/NA	Water	PrecSep_0	
160-51097-13	23071811-013A	Total/NA	Water	PrecSep_0	
160-51097-14	23071811-014A	Total/NA	Water	PrecSep_0	
160-51097-15	23071811-015A	Total/NA	Water	PrecSep_0	
160-51097-16	23071811-016A	Total/NA	Water	PrecSep_0	
160-51097-17	23071811-017A	Total/NA	Water	PrecSep_0	
160-51097-19	23071811-019A	Total/NA	Water	PrecSep_0	
160-51097-20	23071811-020A	Total/NA	Water	PrecSep_0	
MB 160-624955/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-624955/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-624955/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-1
 Job No: 160-51097-1
 SDG: 23071811-1

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y
160-51097-1	23071811-001A	87.2	
160-51097-2	23071811-002A	72.2	
160-51097-3	23071811-003A	84.2	
160-51097-4	23071811-004A	95.0	
160-51097-5	23071811-005A	72.9	
160-51097-7	23071811-007A	83.0	
160-51097-8	23071811-008A	90.0	
160-51097-9	23071811-009A	89.2	
160-51097-10	23071811-010A	89.5	
160-51097-11	23071811-011A	90.5	
160-51097-12	23071811-012A	90.0	
160-51097-13	23071811-013A	75.4	
160-51097-14	23071811-014A	30.3	
160-51097-15	23071811-015A	92.5	
160-51097-16	23071811-016A	90.2	
160-51097-17	23071811-017A	93.5	
160-51097-19	23071811-019A	78.2	
160-51097-20	23071811-020A	63.2	
LCS 160-624954/2-A	Lab Control Sample	97.5	
LCSD 160-624954/3-A	Lab Control Sample Dup	94.2	
MB 160-624954/1-A	Method Blank	99.7	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
160-51097-1	23071811-001A	87.2	84.9
160-51097-2	23071811-002A	72.2	82.6
160-51097-3	23071811-003A	84.2	80.7
160-51097-4	23071811-004A	95.0	83.4
160-51097-5	23071811-005A	72.9	84.1
160-51097-7	23071811-007A	83.0	83.4
160-51097-8	23071811-008A	90.0	84.1
160-51097-9	23071811-009A	89.2	84.5
160-51097-10	23071811-010A	89.5	83.4
160-51097-11	23071811-011A	90.5	89.0
160-51097-12	23071811-012A	90.0	85.2
160-51097-13	23071811-013A	75.4	85.2
160-51097-14	23071811-014A	30.3	89.7
160-51097-15	23071811-015A	92.5	83.0
160-51097-16	23071811-016A	90.2	87.9
160-51097-17	23071811-017A	93.5	86.0
160-51097-19	23071811-019A	78.2	83.0
160-51097-20	23071811-020A	63.2	85.2
LCS 160-624955/2-A	Lab Control Sample	97.5	86.0

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
Job ID: 160-51097-1
SDG: 23071811-1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
LCSD 160-624955/3-A	Lab Control Sample Dup	94.2	86.7
MB 160-624955/1-A	Method Blank	99.7	86.4

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc

5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 9/28/2023 8:46:37 AM Revision 1

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23071811-2

JOB NUMBER

160-51097-2

Eurofins St. Louis

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 TestAmerica Project Manager.

Authorization



Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

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Revision 1



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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Job ID: 160-51097-2

Laboratory: Eurofins St. Louis

Narrative

Job Narrative 160-51097-2

Revision

The report being provided is a revision of the original report sent on 9/15/2023. The report (revision 1) is being revised due to: Sample collection times have been updated per client request.

Receipt

The samples were received on 8/16/2023 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved. The temperature of the cooler at receipt was 18.2° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: 23071811-006A (160-51097-6), 23071811-018A (160-51097-18), 23071811-021A (160-51097-21), 23071811-022A (160-51097-22), 23071811-033A (160-51097-33), 23071811-052A (160-51097-52), 23071811-054A (160-51097-54), 23071811-059A (160-51097-59) and 23071811-062A (160-51097-62). The COC states that these samples were dry or couldn't be pumped.

RAD

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.

Method 904.0: Radium-228

The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 129%: (LCS 160-624957/2-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (63-154%) per method requirements. The LCS is within criteria and no further action is required.

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23071811-030A (160-51097-30) and 23071811-032A (160-51097-32)

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

Jayna Awalt

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Thursday, September 28, 2023 8:11 AM
To: Jayna Awalt
Subject: Teklab WO# 23071811 - Revision Request

Categories: Super important

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Good morning, Jayna,

Teklab client has requested a revised report for WO# 23071811 to update the following collection times:

23071811-035 from 1308 to 1300
23071811-044 from 1204 to 1209
23071811-060 from 1332 to 1432
23071811-061 from 1311 to 1113

Thanks for your help.

Have a great day!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
Cell: (618) 791-8119
Fax: (618) 344-1005
E-mail: ehurley@teklabinc.com
www.teklabinc.com

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234
Project#: 23071811
Cooler Temp: _____
Sampler: J. Riley/B. Gillihan/J. Colp
QC Level: 3
Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.
Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standat TAT Billing/PO: 34883
Phone: 618 344-1004 ext. 33

PLEASE NOTE:
NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-001A	8/10/23 10:10	HNO3	Groundwater
	23071811-002A	8/10/23 12:09	HNO3	Groundwater
	23071811-003A	8/10/23 11:38	HNO3	Groundwater
	23071811-004A	8/10/23 11:13	HNO3	Groundwater
	23071811-005A	8/10/23 10:46	HNO3	Groundwater
	23071811-006A	Dry	HNO3	Groundwater
	23071811-007A	8/14/23 11:52	HNO3	Groundwater
	23071811-008A	8/14/23 11:34	HNO3	Groundwater
	23071811-009A	8/14/23 10:46	HNO3	Groundwater
	23071811-010A	8/10/23 15:28	HNO3	Groundwater
	23071811-011A	8/10/23 15:08	HNO3	Groundwater



*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-16-23 11:30	<i>[Signature]</i>	8-16-23 4:20 PM
<i>[Signature]</i>	8-16-23 5:25 PM	Suzie Wasyun	8/11/23 1716

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Project#: 23071811

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com

Requested Due Date: Standad TAT Billing/PO: 34883

Phone: 618 344-1004 ext. 33

Sampler: J. Riley/B. Gillihan/J. Colp

Cooler Temp: QC Level: 3

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-012A	8/10/23 14:16	HNO3	Groundwater
	23071811-013A	8/10/23 13:25	HNO3	Groundwater
	23071811-014A	8/10/23 12:53	HNO3	Groundwater
	23071811-015A	8/14/23 1345	HNO3	Groundwater
	23071811-016A	8/14/23 1315	HNO3	Groundwater
	23071811-017A	8/14/23 1432	HNO3	Groundwater
	23071811-018A	DAY	HNO3	Groundwater
	23071811-019A	8/14/23 1120	HNO3	Groundwater
	23071811-020A	8/14/23 1235	HNO3	Groundwater
	23071811-021A	DAY	HNO3	Groundwater
	23071811-022A	DAY	HNO3	Groundwater

Ra226/228

*Relinquished By: *[Signature]* Date/Time: 8-16-23 16:30 Received By: *[Signature]* Date/Time: 8-16-23 4:20

[Signature] Date/Time: 8-16-23 8:15 PM *[Signature]* Date/Time: 8/16/23 1715

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234
 Project#: 23071811
 Cooler Temp:
 Sampler: J. Riley/B. Gillihan/J. Colp
 QC Level:
 Comments: **Please issue reports and invoices via email only**
 Please analyze for Radium 22/228 per standard GW methods.
 Changes to methods must be approved by Teklab, Inc.
 Batch QC is required for all analyses requested. Excel EDD requested. IL site.
 Contact: Elizabeth Hurley
 Email: ehurley@teklabinc.com
 Requested Due Date: Standad TAT
 Billing/PO: 34883
 Phone: 618 344-1004 ext. 33

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Ra226/228											
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-023A	8/14/23 1448	HNO3	Groundwater
	23071811-024A	8/14/23 1606	HNO3	Groundwater
	23071811-025A	8/15/23 1145	HNO3	Groundwater
	23071811-026A	8/15/23 1010	HNO3	Groundwater
	23071811-027A	8/15/23 1104	HNO3	Groundwater
	23071811-028A	8/9/23 1113	HNO3	Groundwater
	23071811-029A	8/9/23 1155	HNO3	Groundwater
	23071811-030A	8/9/23 1526	HNO3	Groundwater
	23071811-031A	8/10/23 1236	HNO3	Groundwater
	23071811-032A	8/10/23 1101	HNO3	Groundwater
	23071811-033A	Can't Pump	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-14-23 11:30	<i>[Signature]</i>	8-16-23 9:30
<i>[Signature]</i>	8-16-23 8:15 PM	<i>[Signature]</i>	8-16-23 17:15

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234
 Project#: 23071811 Cooler Temp: Sampler: J. Riley/B. Gillihan/J. Colp QC Level: 3
 Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
 Requested Due Date: Standad TAT Billing/PO: 34883 Phone: 618 344-1004 ext. 33
 Comments: **Please issue reports and invoices via email only**
 Please analyze for Radium 22/228 per standard GW methods.
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Matrix
	23071811-034A	8/10/23 12:12	HNO3	Groundwater	
	23071811-035A	8/10/23 13:08	HNO3	Groundwater	
	23071811-036A	8/9/23 1036	HNO3	Groundwater	
	23071811-037A	8/9/23 1228	HNO3	Groundwater	
	23071811-038A	8/9/23 1412	HNO3	Groundwater	
	23071811-039A	8/9/23 1433	HNO3	Groundwater	
	23071811-040A	8/9/23 1453	HNO3	Groundwater	
	23071811-041A	8/10/23 11:29	HNO3	Groundwater	
	23071811-042A	8/9/23 1343	HNO3	Groundwater	
	23071811-043A	8-11-23 1122	HNO3	Groundwater	
	23071811-044A	8-11-23 1204	HNO3	Groundwater	

*Relinquished By: Faly Date/Time: 8-11-23 16:50
 Received By: Sing Wapfer Date/Time: 8-16-23 8:15 PM
Faly Sing Wapfer 9:20
8/16/23 1715

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Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51097-2

SDG Number: 23071811-2

Login Number: 51097

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

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.	False	Samples listed as Dry under Sample Date/Time were not received.
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	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Method Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-2
SDG: 23071811-2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-2
SDG: 23071811-2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51097-23	23071811-023A	Water	08/14/23 14:48	08/16/23 17:15
160-51097-24	23071811-024A	Water	08/14/23 16:06	08/16/23 17:15
160-51097-25	23071811-025A	Water	08/15/23 11:45	08/16/23 17:15
160-51097-26	23071811-026A	Water	08/15/23 10:10	08/16/23 17:15
160-51097-27	23071811-027A	Water	08/15/23 11:04	08/16/23 17:15
160-51097-28	23071811-028A	Water	08/09/23 11:13	08/16/23 17:15
160-51097-29	23071811-029A	Water	08/09/23 11:55	08/16/23 17:15
160-51097-30	23071811-030A	Water	08/09/23 15:26	08/16/23 17:15
160-51097-31	23071811-031A	Water	08/10/23 12:36	08/16/23 17:15
160-51097-32	23071811-032A	Water	08/10/23 11:01	08/16/23 17:15
160-51097-34	23071811-034A	Water	08/10/23 12:12	08/16/23 17:15
160-51097-35	23071811-035A	Water	08/10/23 13:00	08/16/23 17:15
160-51097-36	23071811-036A	Water	08/09/23 10:36	08/16/23 17:15
160-51097-37	23071811-037A	Water	08/09/23 12:28	08/16/23 17:15
160-51097-38	23071811-038A	Water	08/09/23 14:12	08/16/23 17:15
160-51097-39	23071811-039A	Water	08/09/23 14:33	08/16/23 17:15
160-51097-40	23071811-040A	Water	08/09/23 14:53	08/16/23 17:15



Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
 SDG: 23071811-2

Client Sample ID: 23071811-023A
 Date Collected: 08/14/23 14:48
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-23
 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	0.0514	U	0.0719	0.0720	1.00	0.122	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.139	U	0.347	0.347	1.00	0.609	pCi/L	08/22/23 09:48	09/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/22/23 09:48	09/08/23 12:05	1
Y Carrier	85.6		30 - 110					08/22/23 09:48	09/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.190	U	0.354	0.354	5.00	0.609	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-024A
 Date Collected: 08/14/23 16:06
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-24
 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	0.0608	U	0.0781	0.0783	1.00	0.130	pCi/L	08/22/23 09:46	09/13/23 21:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/22/23 09:46	09/13/23 21:44	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	0.607	U	0.423	0.426	1.00	0.645	pCi/L	08/22/23 09:48	09/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/22/23 09:48	09/08/23 12:05	1
Y Carrier	87.1		30 - 110					08/22/23 09:48	09/08/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.667		0.430	0.433	5.00	0.645	pCi/L		09/15/23 15:57	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-2
 SDG: 23071811-2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-025A
 Date Collected: 08/15/23 11:45
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-25
 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	0.365		0.118	0.123	1.00	0.0997	pCi/L	08/22/23 09:49	09/13/23 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/22/23 09:49	09/13/23 07:25	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	0.355	U	0.285	0.287	1.00	0.436	pCi/L	08/22/23 09:53	09/07/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/22/23 09:53	09/07/23 11:36	1
Y Carrier	87.9		30 - 110					08/22/23 09:53	09/07/23 11:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.719		0.308	0.312	5.00	0.436	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-026A
 Date Collected: 08/15/23 10:10
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-26
 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	0.0930	U	0.0737	0.0742	1.00	0.103	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/22/23 09:49	09/13/23 07:26	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	0.473	U	0.337	0.340	1.00	0.508	pCi/L	08/22/23 09:53	09/07/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/22/23 09:53	09/07/23 11:36	1
Y Carrier	87.5		30 - 110					08/22/23 09:53	09/07/23 11:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.566		0.345	0.348	5.00	0.508	pCi/L		09/15/23 15:50	1

Eurofins St. Louis

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-2
 SDG: 23071811-2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-027A
 Date Collected: 08/15/23 11:04
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-27
 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	0.379		0.142	0.146	1.00	0.126	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/22/23 09:49	09/13/23 07:26	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	2.01		0.599	0.627	1.00	0.671	pCi/L	08/22/23 09:53	09/07/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/22/23 09:53	09/07/23 11:37	1
Y Carrier	86.7		30 - 110					08/22/23 09:53	09/07/23 11:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.39		0.616	0.644	5.00	0.671	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-028A
 Date Collected: 08/09/23 11:13
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-28
 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	0.0854	U	0.0897	0.0900	1.00	0.140	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:49	09/13/23 07:26	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	0.940		0.528	0.535	1.00	0.763	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	86.7		30 - 110					08/22/23 09:53	09/07/23 11:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.536	0.543	5.00	0.763	pCi/L		09/15/23 15:50	1

Eurofins St. Louis

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-2
 SDG: 23071811-2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-029A
 Date Collected: 08/09/23 11:55
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-29
 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	0.0958	U	0.0837	0.0842	1.00	0.126	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:26	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	0.827		0.441	0.447	1.00	0.635	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	84.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.923		0.449	0.455	5.00	0.635	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-030A
 Date Collected: 08/09/23 15:26
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-30
 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	0.267		0.172	0.174	1.00	0.224	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:49	09/13/23 07:26	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	0.770	U G	0.833	0.836	1.00	1.36	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	84.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.04	U	0.851	0.854	5.00	1.36	pCi/L		09/15/23 15:50	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
 SDG: 23071811-2

Client Sample ID: 23071811-031A
 Date Collected: 08/10/23 12:36
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-31
 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	0.0173	U	0.0666	0.0666	1.00	0.127	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:49	09/13/23 07:33	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	0.532		0.330	0.334	1.00	0.480	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	87.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.549		0.337	0.341	5.00	0.480	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-032A
 Date Collected: 08/10/23 11:01
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-32
 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	0.425		0.278	0.280	1.00	0.370	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	53.1		30 - 110					08/22/23 09:49	09/13/23 07:33	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	4.51	G	1.58	1.64	1.00	1.97	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	53.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	85.2		30 - 110					08/22/23 09:53	09/07/23 11:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	4.93		1.60	1.66	5.00	1.97	pCi/L		09/15/23 15:50	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
 SDG: 23071811-2

Client Sample ID: 23071811-034A

Lab Sample ID: 160-51097-34

Date Collected: 08/10/23 12:12

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0678	U	0.0853	0.0855	1.00	0.141	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:49	09/13/23 07:33	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	0.350	U	0.335	0.337	1.00	0.535	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	84.9		30 - 110					08/22/23 09:53	09/07/23 11:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.417	U	0.346	0.348	5.00	0.535	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-035A

Lab Sample ID: 160-51097-35

Date Collected: 08/10/23 13:00

Matrix: Water

Date Received: 08/16/23 17:15

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	0.00179	U	0.0775	0.0775	1.00	0.154	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:33	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	0.215	U	0.336	0.337	1.00	0.572	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	83.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.217	U	0.345	0.346	5.00	0.572	pCi/L		09/15/23 15:50	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
 SDG: 23071811-2

Client Sample ID: 23071811-036A

Lab Sample ID: 160-51097-36

Date Collected: 08/09/23 10:36

Matrix: Water

Date Received: 08/16/23 17:15

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	0.00267	U	0.0722	0.0722	1.00	0.144	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:33	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	0.404	U	0.354	0.356	1.00	0.557	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	86.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.407	U	0.361	0.363	5.00	0.557	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-037A

Lab Sample ID: 160-51097-37

Date Collected: 08/09/23 12:28

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0401	U	0.0767	0.0768	1.00	0.136	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:49	09/13/23 07:33	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	0.776		0.397	0.403	1.00	0.544	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	79.3		30 - 110					08/22/23 09:53	09/07/23 11:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.816		0.404	0.410	5.00	0.544	pCi/L		09/15/23 15:50	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
 SDG: 23071811-2

Client Sample ID: 23071811-038A

Lab Sample ID: 160-51097-38

Date Collected: 08/09/23 14:12

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0572	U	0.0645	0.0647	1.00	0.103	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					08/22/23 09:49	09/13/23 07:33	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	0.569		0.354	0.358	1.00	0.519	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	84.9		30 - 110					08/22/23 09:53	09/07/23 11:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.627		0.360	0.364	5.00	0.519	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-039A

Lab Sample ID: 160-51097-39

Date Collected: 08/09/23 14:33

Matrix: Water

Date Received: 08/16/23 17:15

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	0.259		0.109	0.112	1.00	0.116	pCi/L	08/22/23 09:49	09/13/23 07:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					08/22/23 09:49	09/13/23 07:34	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	0.940		0.393	0.403	1.00	0.503	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	84.5		30 - 110					08/22/23 09:53	09/07/23 11:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.20		0.408	0.418	5.00	0.503	pCi/L		09/15/23 15:50	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-2
 Job No: 84-102
 SDG: 23071811-2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-040A
 Date Collected: 08/09/23 14:53
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-40
 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	0.635		0.186	0.194	1.00	0.150	pCi/L	08/22/23 09:49	09/13/23 07:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:34	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	0.961		0.488	0.496	1.00	0.663	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	84.5		30 - 110					08/22/23 09:53	09/07/23 11:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.60		0.522	0.533	5.00	0.663	pCi/L		09/15/23 15:50	1

QC Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-624954/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624954

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03330	U	0.0668	0.0669	1.00	0.120	pCi/L	08/22/23 09:46	09/13/23 21:36	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	99.7		30 - 110					08/22/23 09:46	09/13/23 21:36	1

Lab Sample ID: LCS 160-624954/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624954

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.996		1.07	1.00	0.107	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	97.5		30 - 110					08/22/23 09:46	09/13/23 21:36	1

Lab Sample ID: LCSD 160-624954/3-A
Matrix: Water
Analysis Batch: 627939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624954

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.90		1.16	1.00	0.133	pCi/L	96	75 - 125	0.41	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	94.2		30 - 110					08/22/23 09:49	09/13/23 07:23	1	

Lab Sample ID: MB 160-624956/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624956

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.006388	U	0.0589	0.0589	1.00	0.125	pCi/L	08/22/23 09:49	09/13/23 07:23	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	68.9		30 - 110					08/22/23 09:49	09/13/23 07:23	1

Lab Sample ID: LCS 160-624956/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624956

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.65		1.15	1.00	0.115	pCi/L	94	75 - 125

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QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

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

Lab Sample ID: LCS 160-624956/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624956

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	80.2		30 - 110

Lab Sample ID: LCSD 160-624956/3-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624956

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER
									Limits	RER	Limit
Radium-226	11.3	11.13		1.20	1.00	0.130	pCi/L	98	75 - 125	0.20	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	76.9		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-624955/1-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624955

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed	Dil Fac
								Prepared	Analyzed	Dil Fac	
Radium-228	0.2999	U	0.298	0.299	1.00	0.477	pCi/L	08/22/23 09:48	09/08/23 11:57		1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		30 - 110	08/22/23 09:48	09/08/23 11:57	1
Y Carrier	86.4		30 - 110	08/22/23 09:48	09/08/23 11:57	1

Lab Sample ID: LCS 160-624955/2-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624955

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec	
									Limits	RER
Radium-228	7.89	8.160		1.15	1.00	0.448	pCi/L	103	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.5		30 - 110
Y Carrier	86.0		30 - 110

Lab Sample ID: LCSD 160-624955/3-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624955

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER
									Limits	RER	Limit
Radium-228	7.89	7.989		1.15	1.00	0.505	pCi/L	101	75 - 125	0.07	1

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QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

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

Lab Sample ID: LCSD 160-624955/3-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624955

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	94.2		30 - 110
Y Carrier	86.7		30 - 110

Lab Sample ID: MB 160-624957/1-A
Matrix: Water
Analysis Batch: 627054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624957

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.7864		0.510	0.515	1.00	0.758	pCi/L	08/22/23 09:53	09/07/23 11:35	1

Carrier	MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	68.9		30 - 110	08/22/23 09:53	09/07/23 11:35	1
Y Carrier	83.0		30 - 110	08/22/23 09:53	09/07/23 11:35	1

Lab Sample ID: LCSD 160-624957/3-A
Matrix: Water
Analysis Batch: 627054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624957

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

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	76.9		30 - 110
Y Carrier	84.5		30 - 110

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Rad

Prep Batch: 624954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-23	23071811-023A	Total/NA	Water	PrecSep-21	
160-51097-24	23071811-024A	Total/NA	Water	PrecSep-21	
MB 160-624954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624954/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-23	23071811-023A	Total/NA	Water	PrecSep_0	
160-51097-24	23071811-024A	Total/NA	Water	PrecSep_0	
MB 160-624955/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-624955/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-624955/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 624956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-25	23071811-025A	Total/NA	Water	PrecSep-21	
160-51097-26	23071811-026A	Total/NA	Water	PrecSep-21	
160-51097-27	23071811-027A	Total/NA	Water	PrecSep-21	
160-51097-28	23071811-028A	Total/NA	Water	PrecSep-21	
160-51097-29	23071811-029A	Total/NA	Water	PrecSep-21	
160-51097-30	23071811-030A	Total/NA	Water	PrecSep-21	
160-51097-31	23071811-031A	Total/NA	Water	PrecSep-21	
160-51097-32	23071811-032A	Total/NA	Water	PrecSep-21	
160-51097-34	23071811-034A	Total/NA	Water	PrecSep-21	
160-51097-35	23071811-035A	Total/NA	Water	PrecSep-21	
160-51097-36	23071811-036A	Total/NA	Water	PrecSep-21	
160-51097-37	23071811-037A	Total/NA	Water	PrecSep-21	
160-51097-38	23071811-038A	Total/NA	Water	PrecSep-21	
160-51097-39	23071811-039A	Total/NA	Water	PrecSep-21	
160-51097-40	23071811-040A	Total/NA	Water	PrecSep-21	
MB 160-624956/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624956/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624956/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-25	23071811-025A	Total/NA	Water	PrecSep_0	
160-51097-26	23071811-026A	Total/NA	Water	PrecSep_0	
160-51097-27	23071811-027A	Total/NA	Water	PrecSep_0	
160-51097-28	23071811-028A	Total/NA	Water	PrecSep_0	
160-51097-29	23071811-029A	Total/NA	Water	PrecSep_0	
160-51097-30	23071811-030A	Total/NA	Water	PrecSep_0	
160-51097-31	23071811-031A	Total/NA	Water	PrecSep_0	
160-51097-32	23071811-032A	Total/NA	Water	PrecSep_0	
160-51097-34	23071811-034A	Total/NA	Water	PrecSep_0	
160-51097-35	23071811-035A	Total/NA	Water	PrecSep_0	
160-51097-36	23071811-036A	Total/NA	Water	PrecSep_0	
160-51097-37	23071811-037A	Total/NA	Water	PrecSep_0	
160-51097-38	23071811-038A	Total/NA	Water	PrecSep_0	
160-51097-39	23071811-039A	Total/NA	Water	PrecSep_0	

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Rad (Continued)

Prep Batch: 624957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-40	23071811-040A	Total/NA	Water	PrecSep_0	
MB 160-624957/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCSD 160-624957/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

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

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-2
 SDG: 23071811-2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	
160-51097-23	23071811-023A	91.7	
160-51097-24	23071811-024A	91.5	
160-51097-25	23071811-025A	96.5	
160-51097-26	23071811-026A	92.2	
160-51097-27	23071811-027A	92.7	
160-51097-28	23071811-028A	92.0	
160-51097-29	23071811-029A	91.0	
160-51097-30	23071811-030A	90.2	
160-51097-31	23071811-031A	95.0	
160-51097-32	23071811-032A	53.1	
160-51097-34	23071811-034A	90.0	
160-51097-35	23071811-035A	91.0	
160-51097-36	23071811-036A	91.0	
160-51097-37	23071811-037A	92.0	
160-51097-38	23071811-038A	94.7	
160-51097-39	23071811-039A	94.0	
160-51097-40	23071811-040A	91.0	
LCS 160-624954/2-A	Lab Control Sample	97.5	
LCS 160-624956/2-A	Lab Control Sample	80.2	
LCSD 160-624954/3-A	Lab Control Sample Dup	94.2	
LCSD 160-624956/3-A	Lab Control Sample Dup	76.9	
MB 160-624954/1-A	Method Blank	99.7	
MB 160-624956/1-A	Method Blank	68.9	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
160-51097-23	23071811-023A	91.7	85.6
160-51097-24	23071811-024A	91.5	87.1
160-51097-25	23071811-025A	96.5	87.9
160-51097-26	23071811-026A	92.2	87.5
160-51097-27	23071811-027A	92.7	86.7
160-51097-28	23071811-028A	92.0	86.7
160-51097-29	23071811-029A	91.0	84.1
160-51097-30	23071811-030A	90.2	84.1
160-51097-31	23071811-031A	95.0	87.1
160-51097-32	23071811-032A	53.1	85.2
160-51097-34	23071811-034A	90.0	84.9
160-51097-35	23071811-035A	91.0	83.0
160-51097-36	23071811-036A	91.0	86.0
160-51097-37	23071811-037A	92.0	79.3
160-51097-38	23071811-038A	94.7	84.9
160-51097-39	23071811-039A	94.0	84.5
160-51097-40	23071811-040A	91.0	84.5

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
Job ID: 160-51097-2
SDG: 23071811-2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
LCS 160-624955/2-A	Lab Control Sample	97.5	86.0
LCSD 160-624955/3-A	Lab Control Sample Dup	94.2	86.7
LCSD 160-624957/3-A	Lab Control Sample Dup	76.9	84.5
MB 160-624955/1-A	Method Blank	99.7	86.4
MB 160-624957/1-A	Method Blank	68.9	83.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

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JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23071811-3

JOB NUMBER

160-51097-3

Eurofins St. Louis

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 TestAmerica Project Manager.

Authorization



Authorized for release by
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Revision 1



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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-3
SDG: 23071811-3

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3

Laboratory: Eurofins St. Louis

Narrative

Job Narrative 160-51097-3

Revision

The report being provided is a revision of the original report sent on 9/18/2023. The report (revision 1) is being revised due to: Sample collection times were changed per client request..

RECEIPT

The samples were received on 08/16/2023; the samples arrived in good condition, properly preserved. The temperature of the coolers at receipt was 18.2 C.

Receipt Exceptions:

The following samples were listed on the Chain of Custody (COC); however, no samples were received: 23071811-006A (160-51097-6), 23071811-018A (160-51097-18), 23071811-021A (160-51097-21), 23071811-022A (160-51097-22), 23071811-033A (160-51097-33), 23071811-052A (160-51097-52), 23071811-054A (160-51097-54), 23071811-059A (160-51097-59) and 23071811-062A (160-51097-62). The COC states that these samples were dry or couldn't be pumped. Samples were set to inactive.

RADIUM-226 (GFPC)

Samples 23071811-041A (160-51097-41), 23071811-042A (160-51097-42), 23071811-043A (160-51097-43), 23071811-044A (160-51097-44), 23071811-045A (160-51097-45), 23071811-046A (160-51097-46), 23071811-047A (160-51097-47), 23071811-048A (160-51097-48), 23071811-049A (160-51097-49), 23071811-050A (160-51097-50), 23071811-051A (160-51097-51), 23071811-053A (160-51097-53), 23071811-055A (160-51097-55), 23071811-056A (160-51097-56), 23071811-057A (160-51097-57), 23071811-058A (160-51097-58), 23071811-060A (160-51097-60) and 23071811-061A (160-51097-61) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were prepared on 08/23/2023 and analyzed on 09/14/2023.

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

RADIUM-228 (GFPC)

Samples 23071811-041A (160-51097-41), 23071811-042A (160-51097-42), 23071811-043A (160-51097-43), 23071811-044A (160-51097-44), 23071811-045A (160-51097-45), 23071811-046A (160-51097-46), 23071811-047A (160-51097-47), 23071811-048A (160-51097-48), 23071811-049A (160-51097-49), 23071811-050A (160-51097-50), 23071811-051A (160-51097-51), 23071811-053A (160-51097-53), 23071811-055A (160-51097-55), 23071811-056A (160-51097-56), 23071811-057A (160-51097-57), 23071811-058A (160-51097-58), 23071811-060A (160-51097-60) and 23071811-061A (160-51097-61) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 08/23/2023 and analyzed on 09/11/2023.

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23071811-044A (160-51097-44) and 23071811-053A (160-51097-53)

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

COMBINED RADIUM-226 AND RADIUM-228

Samples 23071811-041A (160-51097-41), 23071811-042A (160-51097-42), 23071811-043A (160-51097-43), 23071811-044A (160-51097-44), 23071811-045A (160-51097-45), 23071811-046A (160-51097-46), 23071811-047A (160-51097-47), 23071811-048A (160-51097-48), 23071811-049A (160-51097-49), 23071811-050A (160-51097-50), 23071811-051A (160-51097-51), 23071811-053A (160-51097-53), 23071811-055A (160-51097-55), 23071811-056A (160-51097-56), 23071811-057A (160-51097-57), 23071811-058A (160-51097-58), 23071811-060A (160-51097-60) and 23071811-061A (160-51097-61) were analyzed for Combined Radium-226 and Radium-228 in accordance with TAL-STL. The samples were analyzed on 09/18/2023.

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

Jayna Awalt

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Thursday, September 28, 2023 8:11 AM
To: Jayna Awalt
Subject: Teklab WO# 23071811 - Revision Request

Categories: Super important

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

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Good morning, Jayna,

Teklab client has requested a revised report for WO# 23071811 to update the following collection times:

23071811-035 from 1308 to 1300
23071811-044 from 1204 to 1209
23071811-060 from 1332 to 1432
23071811-061 from 1311 to 1113

Thanks for your help.

Have a great day!

Elizabeth Hurley
Director of Customer Service



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E-mail: ehurley@teklabinc.com
www.teklabinc.com

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: J. Riley/B. Gillihan/J. Colp QC Level:

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project#: 23071811
Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standat TAT Billing/PO: 34883
Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-001A	8/10/23 10:10	HNO3	Groundwater
	23071811-002A	8/10/23 12:09	HNO3	Groundwater
	23071811-003A	8/10/23 11:38	HNO3	Groundwater
	23071811-004A	8/10/23 11:13	HNO3	Groundwater
	23071811-005A	8/10/23 10:46	HNO3	Groundwater
	23071811-006A	Dry	HNO3	Groundwater
	23071811-007A	8/14/23 11:52	HNO3	Groundwater
	23071811-008A	8/14/23 11:34	HNO3	Groundwater
	23071811-009A	8/14/23 10:46	HNO3	Groundwater
	23071811-010A	8/10/23 15:28	HNO3	Groundwater
	23071811-011A	8/10/23 15:08	HNO3	Groundwater



*Relinquished By	Date/Time	Received By	Date/Time
[Signature]	8-10-23 11:30	[Signature]	8-10-23 4:30 PM
[Signature]	8-10-23 5:25 PM	Suzi Wajtm	8/10/23 1716

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Teklab Inc
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Collinsville, IL 62234

Project#: 23071811

Contact: Elizabeth Hurley
Email: ehurley@teklabinc.com

Requested Due Date: Standad TAT

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments: **Please issue reports and invoices via email only**
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-012A	8/10/23 14:16	HNO3	Groundwater
	23071811-013A	8/10/23 13:25	HNO3	Groundwater
	23071811-014A	8/10/23 12:53	HNO3	Groundwater
	23071811-015A	8/14/23 1345	HNO3	Groundwater
	23071811-016A	8/14/23 1315	HNO3	Groundwater
	23071811-017A	8/14/23 1432	HNO3	Groundwater
	23071811-018A	Day	HNO3	Groundwater
	23071811-019A	8/14/23 1120	HNO3	Groundwater
	23071811-020A	8/14/23 1235	HNO3	Groundwater
	23071811-021A	Day	HNO3	Groundwater
	23071811-022A	Day	HNO3	Groundwater

*Relinquished By: *[Signature]* Date/Time: 8-16-23 16:30

Received By: *[Signature]* Date/Time: 8-16-23 8:15 PM

Date/Time: 8-16-23 4:20

Date/Time: 8/16/23 1715

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5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES NO With: Ice Blue Ice Preserved in: Lab Field

Teklab Inc
 5445 Horseshoe Lake Road
 Collinsville, IL 62234

Cooler Temp: Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments: **Please Issue reports and invoices via email only**
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 Changes to methods must be approved by Teklab, Inc.
 Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project#: 23071811
 Requested Due Date:
 Contact: Elizabeth Hurley
 Email: ehurley@teklabinc.com
 Billing/PO: 34883
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Ra226/228

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Lab Use	Sample ID	Sample DateTime	Preservative	Matrix
	23071811-023A	8/14/23 1448	HNO3	Groundwater
	23071811-024A	8/14/23 1606	HNO3	Groundwater
	23071811-025A	8/15/23 1145	HNO3	Groundwater
	23071811-026A	8/15/23 1010	HNO3	Groundwater
	23071811-027A	8/15/23 1104	HNO3	Groundwater
	23071811-028A	8/9/23 1113	HNO3	Groundwater
	23071811-029A	8/9/23 1155	HNO3	Groundwater
	23071811-030A	8/9/23 1526	HNO3	Groundwater
	23071811-031A	8/10/23 1236	HNO3	Groundwater
	23071811-032A	8/10/23 1101	HNO3	Groundwater
	23071811-033A	Can't Pump	HNO3	Groundwater

*Relinquished By:	Date/Time: 8-14-23 16:30	Received By:	Date/Time: 8-16-23 9:20
	8-16-23 8:15 PM	Smsa Wipflin	8/16/23 17:15

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Collinsville, IL 62234

Project#: 23071811

Cooler Temp: Sampler: J. Riley/B. Gillihan/J. Colp QC Level: 3

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com

Requested Due Date: Standad TAT Billing/PO: 34883 Phone: 618 344-1004 ext. 33

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Ra226/228	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-034A	8/10/23 12:12	HNO3	Groundwater
	23071811-035A	8/10/23 13:08	HNO3	Groundwater
	23071811-036A	8/9/23 1036	HNO3	Groundwater
	23071811-037A	8/9/23 1228	HNO3	Groundwater
	23071811-038A	8/9/23 1412	HNO3	Groundwater
	23071811-039A	8/9/23 1433	HNO3	Groundwater
	23071811-040A	8/9/23 1453	HNO3	Groundwater
	23071811-041A	8/10/23 11:29	HNO3	Groundwater
	23071811-042A	8/9/23 1343	HNO3	Groundwater
	23071811-043A	8-11-23 1122	HNO3	Groundwater
	23071811-044A	8-11-23 1204	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-16-23 16:30	<i>[Signature]</i>	8-16-23 9:20
	8-16-23 8:15PM	Singa Wayfun	8/16/23 1715

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5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: _____ Sampler: J. Riley/B. Gillihan/J. Colp QC Level: 3

Project#: 23071811
Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 34883

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Ra226/228

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-045A	8-11-23 10:51	HNO3	Groundwater
	23071811-046A	8/14/23 15:43	HNO3	Groundwater
	23071811-047A	8-11-23 12:41	HNO3	Groundwater
	23071811-048A	8-11-23 10:13	HNO3	Groundwater
	23071811-049A	8/10/23 14:32	HNO3	Groundwater
	23071811-050A	8/10/23 14:58	HNO3	Groundwater
	23071811-051A	8/10/23 15:24	HNO3	Groundwater
	23071811-052A	Dry	HNO3	Groundwater
	23071811-053A	8/15/23 13:12	HNO3	Groundwater
	23071811-054A	Dry	HNO3	Groundwater
	23071811-055A	8/15/23 12:53	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-11-23 16:30	<i>[Signature]</i>	8-10-23 9:20
<i>[Signature]</i>	8-16-23 6:15 PM	<i>[Signature]</i>	8/16/23 1:15

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51097-3

SDG Number: 23071811-3

Login Number: 51097

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

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.	False	Samples listed as Dry under Sample Date/Time were not received.
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	

Definitions/Glossary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-3
Doc ID: 160-51097-3
SDG: 23071811-3

Client: TekLab, Inc

Project/Site: Radium-226 and Radium-228

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

Method Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-51097-3
SDG: 23071811-3

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51097-41	23071811-041A	Water	08/10/23 11:29	08/16/23 17:15
160-51097-42	23071811-042A	Water	08/09/23 13:43	08/16/23 17:15
160-51097-43	23071811-043A	Water	08/11/23 11:22	08/16/23 17:15
160-51097-44	23071811-044A	Water	08/11/23 12:09	08/16/23 17:15
160-51097-45	23071811-045A	Water	08/11/23 10:51	08/16/23 17:15
160-51097-46	23071811-046A	Water	08/14/23 15:43	08/16/23 17:15
160-51097-47	23071811-047A	Water	08/11/23 12:41	08/16/23 17:15
160-51097-48	23071811-048A	Water	08/11/23 10:13	08/16/23 17:15
160-51097-49	23071811-049A	Water	08/10/23 14:32	08/16/23 17:15
160-51097-50	23071811-050A	Water	08/10/23 14:58	08/16/23 17:15
160-51097-51	23071811-051A	Water	08/10/23 15:24	08/16/23 17:15
160-51097-53	23071811-053A	Water	08/15/23 13:12	08/16/23 17:15
160-51097-55	23071811-055A	Water	08/15/23 12:53	08/16/23 17:15
160-51097-56	23071811-056A	Water	08/10/23 13:22	08/16/23 17:15
160-51097-57	23071811-057A	Water	08/10/23 13:45	08/16/23 17:15
160-51097-58	23071811-058A	Water	08/15/23 10:35	08/16/23 17:15
160-51097-60	23071811-060A	Water	08/14/23 14:32	08/16/23 17:15
160-51097-61	23071811-061A	Water	08/09/23 11:13	08/16/23 17:15



Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-041A
 Date Collected: 08/10/23 11:29
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-41
 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	0.111	U	0.114	0.114	1.00	0.179	pCi/L	08/23/23 10:03	09/14/23 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					08/23/23 10:03	09/14/23 07:38	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	0.305	U	0.354	0.355	1.00	0.581	pCi/L	08/23/23 10:07	09/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					08/23/23 10:07	09/11/23 11:56	1
Y Carrier	83.4		30 - 110					08/23/23 10:07	09/11/23 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.416	U	0.372	0.373	5.00	0.581	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-042A
 Date Collected: 08/09/23 13:43
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-42
 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	0.0651	U	0.0836	0.0838	1.00	0.138	pCi/L	08/23/23 10:03	09/14/23 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:03	09/14/23 07:38	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	0.596	U	0.399	0.403	1.00	0.599	pCi/L	08/23/23 10:07	09/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:07	09/11/23 11:56	1
Y Carrier	87.5		30 - 110					08/23/23 10:07	09/11/23 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.662		0.408	0.412	5.00	0.599	pCi/L		09/18/23 13:01	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-043A
 Date Collected: 08/11/23 11:22
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-43
 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	-0.00227	U	0.0825	0.0825	1.00	0.171	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.431	U	0.353	0.355	1.00	0.549	pCi/L	08/23/23 10:07	09/11/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/23/23 10:07	09/11/23 11:57	1
Y Carrier	86.7		30 - 110					08/23/23 10:07	09/11/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.431	U	0.363	0.364	5.00	0.549	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-044A
 Date Collected: 08/11/23 12:09
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-44
 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	0.236	U	0.241	0.241	1.00	0.378	pCi/L	08/23/23 10:03	09/14/23 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		30 - 110					08/23/23 10:03	09/14/23 07:44	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	0.160	U G	0.698	0.698	1.00	1.28	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	83.7		30 - 110					08/23/23 10:07	09/11/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.396	U	0.738	0.738	5.00	1.28	pCi/L		09/18/23 13:01	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-045A
 Date Collected: 08/11/23 10:51
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-45
 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	0.318		0.172	0.174	1.00	0.225	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					08/23/23 10:03	09/14/23 07:42	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	0.666		0.427	0.431	1.00	0.631	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	82.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.984		0.460	0.465	5.00	0.631	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-046A
 Date Collected: 08/14/23 15:43
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-46
 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	0.152	U	0.132	0.133	1.00	0.201	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					08/23/23 10:03	09/14/23 07:42	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	0.958		0.401	0.410	1.00	0.512	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	90.5		30 - 110					08/23/23 10:07	09/11/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.11		0.422	0.431	5.00	0.512	pCi/L		09/18/23 13:01	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-047A

Lab Sample ID: 160-51097-47

Date Collected: 08/11/23 12:41

Matrix: Water

Date Received: 08/16/23 17:15

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	0.122	0.123	1.00	0.190	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:03	09/14/23 07:42	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	0.469	U	0.335	0.338	1.00	0.501	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	88.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.598		0.357	0.360	5.00	0.501	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-048A

Lab Sample ID: 160-51097-48

Date Collected: 08/11/23 10:13

Matrix: Water

Date Received: 08/16/23 17:15

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	-0.0202	U	0.110	0.110	1.00	0.226	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.417	U	0.373	0.375	1.00	0.588	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	85.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.417	U	0.389	0.391	5.00	0.588	pCi/L		09/18/23 13:01	1

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Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
 SDG: 23071811-3

Client Sample ID: 23071811-049A

Lab Sample ID: 160-51097-49

Date Collected: 08/10/23 14:32

Matrix: Water

Date Received: 08/16/23 17:15

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	0.231		0.127	0.129	1.00	0.151	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438	U	0.427	0.429	1.00	0.684	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	74.4		30 - 110					08/23/23 10:07	09/11/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.669	U	0.445	0.448	5.00	0.684	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-050A

Lab Sample ID: 160-51097-50

Date Collected: 08/10/23 14:58

Matrix: Water

Date Received: 08/16/23 17:15

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	0.152	U	0.113	0.114	1.00	0.158	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.461	U	0.365	0.367	1.00	0.565	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	85.6		30 - 110					08/23/23 10:07	09/11/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.613		0.382	0.384	5.00	0.565	pCi/L		09/18/23 13:01	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
 SDG: 23071811-3

Client Sample ID: 23071811-051A
 Date Collected: 08/10/23 15:24
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-51
 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	0.0210	U	0.0814	0.0814	1.00	0.160	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.154	U	0.379	0.379	1.00	0.663	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	87.5		30 - 110					08/23/23 10:07	09/11/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.175	U	0.388	0.388	5.00	0.663	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-053A
 Date Collected: 08/15/23 13:12
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-53
 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	0.163	U	0.186	0.186	1.00	0.299	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.9		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.516	U G	0.653	0.654	1.00	1.08	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.9		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	85.6		30 - 110					08/23/23 10:07	09/11/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.679	U	0.679	0.680	5.00	1.08	pCi/L		09/18/23 13:01	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-055A
 Date Collected: 08/15/23 12:53
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-55
 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	0.114	U	0.163	0.164	1.00	0.277	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					08/23/23 10:03	09/14/23 07:42	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	0.918		0.557	0.563	1.00	0.818	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	89.3		30 - 110					08/23/23 10:07	09/11/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.580	0.586	5.00	0.818	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-056A
 Date Collected: 08/10/23 13:22
 Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-56
 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	0.0225	U	0.0997	0.0998	1.00	0.189	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573	U	0.385	0.389	1.00	0.576	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	83.4		30 - 110					08/23/23 10:07	09/11/23 12:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.595		0.398	0.402	5.00	0.576	pCi/L		09/18/23 13:01	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
 SDG: 23071811-3

Client Sample ID: 23071811-057A

Lab Sample ID: 160-51097-57

Date Collected: 08/10/23 13:45

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0352	U	0.0907	0.0908	1.00	0.169	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0721	U	0.305	0.305	1.00	0.555	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	88.2		30 - 110					08/23/23 10:07	09/11/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.107	U	0.318	0.318	5.00	0.555	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-058A

Lab Sample ID: 160-51097-58

Date Collected: 08/15/23 10:35

Matrix: Water

Date Received: 08/16/23 17:15

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	-0.0117	U	0.0816	0.0816	1.00	0.175	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.167	U	0.357	0.357	1.00	0.620	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	87.1		30 - 110					08/23/23 10:07	09/11/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.167	U	0.366	0.366	5.00	0.620	pCi/L		09/18/23 13:01	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-060A

Lab Sample ID: 160-51097-60

Date Collected: 08/14/23 14:32

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122	U	0.122	0.122	1.00	0.191	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.432	U	0.384	0.386	1.00	0.605	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	86.4		30 - 110					08/23/23 10:07	09/11/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.554	U	0.403	0.405	5.00	0.605	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-061A

Lab Sample ID: 160-51097-61

Date Collected: 08/09/23 11:13

Matrix: Water

Date Received: 08/16/23 17:15

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	0.0299	U	0.0965	0.0966	1.00	0.182	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.419	U	0.450	0.452	1.00	0.734	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	86.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.449	U	0.460	0.462	5.00	0.734	pCi/L		09/18/23 13:01	1

Eurofins St. Louis

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEE POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-625151/1-A
 Matrix: Water
 Analysis Batch: 628146

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 625151

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01475	U	0.0678	0.0678	1.00	0.153	pCi/L	08/23/23 10:03	09/14/23 07:34	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
	%Yield	Qualifier								
Ba Carrier	91.7		30 - 110					08/23/23 10:03	09/14/23 07:34	1

Lab Sample ID: LCS 160-625151/2-A
 Matrix: Water
 Analysis Batch: 628146

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 625151

Analyte		Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec
			Result	Qual	Uncert. (2σ+/-)					Limits
Radium-226		11.3	10.62		1.17	1.00	0.163	pCi/L	94	75 - 125
Carrier	LCS LCS		Limits							
	%Yield	Qualifier								
Ba Carrier	96.7		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-625153/1-A
 Matrix: Water
 Analysis Batch: 627474

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 625153

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5370		0.352	0.356	1.00	0.520	pCi/L	08/23/23 10:07	09/11/23 11:55	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
	%Yield	Qualifier								
Ba Carrier	91.7		30 - 110					08/23/23 10:07	09/11/23 11:55	1
Y Carrier	85.6		30 - 110					08/23/23 10:07	09/11/23 11:55	1

Lab Sample ID: LCS 160-625153/2-A
 Matrix: Water
 Analysis Batch: 627474

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 625153

Analyte		Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec
			Result	Qual	Uncert. (2σ+/-)					Limits
Radium-228		7.88	9.382		1.26	1.00	0.504	pCi/L	119	75 - 125
Carrier	LCS LCS		Limits							
	%Yield	Qualifier								
Ba Carrier	96.7		30 - 110							
Y Carrier	87.9		30 - 110							

QC Association Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEE POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
 Job ID: 160-51097-3
 SDG: 23071811-3

Rad

Prep Batch: 625151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-41	23071811-041A	Total/NA	Water	PrecSep-21	
160-51097-42	23071811-042A	Total/NA	Water	PrecSep-21	
160-51097-43	23071811-043A	Total/NA	Water	PrecSep-21	
160-51097-44	23071811-044A	Total/NA	Water	PrecSep-21	
160-51097-45	23071811-045A	Total/NA	Water	PrecSep-21	
160-51097-46	23071811-046A	Total/NA	Water	PrecSep-21	
160-51097-47	23071811-047A	Total/NA	Water	PrecSep-21	
160-51097-48	23071811-048A	Total/NA	Water	PrecSep-21	
160-51097-49	23071811-049A	Total/NA	Water	PrecSep-21	
160-51097-50	23071811-050A	Total/NA	Water	PrecSep-21	
160-51097-51	23071811-051A	Total/NA	Water	PrecSep-21	
160-51097-53	23071811-053A	Total/NA	Water	PrecSep-21	
160-51097-55	23071811-055A	Total/NA	Water	PrecSep-21	
160-51097-56	23071811-056A	Total/NA	Water	PrecSep-21	
160-51097-57	23071811-057A	Total/NA	Water	PrecSep-21	
160-51097-58	23071811-058A	Total/NA	Water	PrecSep-21	
160-51097-60	23071811-060A	Total/NA	Water	PrecSep-21	
160-51097-61	23071811-061A	Total/NA	Water	PrecSep-21	
MB 160-625151/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-625151/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 625153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-41	23071811-041A	Total/NA	Water	PrecSep_0	
160-51097-42	23071811-042A	Total/NA	Water	PrecSep_0	
160-51097-43	23071811-043A	Total/NA	Water	PrecSep_0	
160-51097-44	23071811-044A	Total/NA	Water	PrecSep_0	
160-51097-45	23071811-045A	Total/NA	Water	PrecSep_0	
160-51097-46	23071811-046A	Total/NA	Water	PrecSep_0	
160-51097-47	23071811-047A	Total/NA	Water	PrecSep_0	
160-51097-48	23071811-048A	Total/NA	Water	PrecSep_0	
160-51097-49	23071811-049A	Total/NA	Water	PrecSep_0	
160-51097-50	23071811-050A	Total/NA	Water	PrecSep_0	
160-51097-51	23071811-051A	Total/NA	Water	PrecSep_0	
160-51097-53	23071811-053A	Total/NA	Water	PrecSep_0	
160-51097-55	23071811-055A	Total/NA	Water	PrecSep_0	
160-51097-56	23071811-056A	Total/NA	Water	PrecSep_0	
160-51097-57	23071811-057A	Total/NA	Water	PrecSep_0	
160-51097-58	23071811-058A	Total/NA	Water	PrecSep_0	
160-51097-60	23071811-060A	Total/NA	Water	PrecSep_0	
160-51097-61	23071811-061A	Total/NA	Water	PrecSep_0	
MB 160-625153/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-625153/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-51097-3
 SDG: 23071811-3

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

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)
160-51097-41	23071811-041A	85.2
160-51097-42	23071811-042A	87.2
160-51097-43	23071811-043A	91.5
160-51097-44	23071811-044A	73.7
160-51097-45	23071811-045A	81.5
160-51097-46	23071811-046A	86.2
160-51097-47	23071811-047A	87.2
160-51097-48	23071811-048A	83.5
160-51097-49	23071811-049A	86.0
160-51097-50	23071811-050A	92.0
160-51097-51	23071811-051A	84.2
160-51097-53	23071811-053A	57.9
160-51097-55	23071811-055A	80.7
160-51097-56	23071811-056A	92.0
160-51097-57	23071811-057A	83.7
160-51097-58	23071811-058A	87.7
160-51097-60	23071811-060A	82.0
160-51097-61	23071811-061A	86.7
LCS 160-625151/2-A	Lab Control Sample	96.7
MB 160-625151/1-A	Method Blank	91.7

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-51097-41	23071811-041A	85.2	83.4
160-51097-42	23071811-042A	87.2	87.5
160-51097-43	23071811-043A	91.5	86.7
160-51097-44	23071811-044A	73.7	83.7
160-51097-45	23071811-045A	81.5	82.2
160-51097-46	23071811-046A	86.2	90.5
160-51097-47	23071811-047A	87.2	88.2
160-51097-48	23071811-048A	83.5	85.2
160-51097-49	23071811-049A	86.0	74.4
160-51097-50	23071811-050A	92.0	85.6
160-51097-51	23071811-051A	84.2	87.5
160-51097-53	23071811-053A	57.9	85.6
160-51097-55	23071811-055A	80.7	89.3
160-51097-56	23071811-056A	92.0	83.4
160-51097-57	23071811-057A	83.7	88.2
160-51097-58	23071811-058A	87.7	87.1
160-51097-60	23071811-060A	82.0	86.4
160-51097-61	23071811-061A	86.7	86.7
LCS 160-625153/2-A	Lab Control Sample	96.7	87.9
MB 160-625153/1-A	Method Blank	91.7	85.6

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
Job ID: 160-51097-3
OP-845-10
SDG: 23071811-3

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2023**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 2
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G401	UA	E002	Antimony, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.001	0.003
G401	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/11/23	26	54	CB around T-S line	-0.0164	0.00660
G401	UA	E002	Barium, total	mg/L	11/21/15 - 08/11/23	26	0	CB around T-S line	-0.155	0.140
G401	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/11/23	25	80	CI around median	0.001	0.001
G401	UA	E002	Boron, total	mg/L	11/21/15 - 08/11/23	27	0	CI around median	3.5	0.0290
G401	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/11/23	26	65	CB around T-S line	-0.0016	0.001
G401	UA	E002	Chloride, total	mg/L	11/21/15 - 08/11/23	27	7	CI around geomean	2.96	75.0
G401	UA	E002	Chromium, total	mg/L	11/21/15 - 08/11/23	26	65	CB around T-S line	-0.0295	0.0190
G401	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	0.0656	0.00590
G401	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/11/23	27	93	CI around median	0.25	0.513
G401	UA	E002	Lead, total	mg/L	11/21/15 - 08/11/23	25	64	CB around T-S line	-0.0302	0.0120
G401	UA	E002	Lithium, total	mg/L	11/21/15 - 08/11/23	28	4	CB around T-S line	-0.00812	0.0190
G401	UA	E002	Mercury, total	mg/L	11/21/15 - 08/11/23	25	80	CI around median	0.0002	0.0002
G401	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/11/23	26	69	CI around median	0.001	0.00450
G401	UA	E002	pH (field)	SU	11/21/15 - 08/11/23	29	0	CI around mean	5.9/6.1	6.6/7.5
G401	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/11/23	26	0	CI around median	0.694	1.89
G401	UA	E002	Selenium, total	mg/L	11/21/15 - 08/11/23	26	62	CB around T-S line	-0.00152	0.00480
G401	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/11/23	27	0	CI around median	2,000	370
G401	UA	E002	Thallium, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.002	0.001
G401	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/11/23	27	0	CI around median	2,800	840
G402	UA	E002	Antimony, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.001	0.003
G402	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	-0.00512	0.00660
G402	UA	E002	Barium, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	-0.00217	0.140
G402	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.001	0.001
G402	UA	E002	Boron, total	mg/L	11/21/15 - 08/11/23	27	0	CB around linear reg	4.5	0.0290
G402	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/11/23	26	96	Most recent sample	0.001	0.001
G402	UA	E002	Chloride, total	mg/L	11/21/15 - 08/11/23	27	18	CI around mean	1.58	75.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 2
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G402	UA	E002	Chromium, total	mg/L	11/21/15 - 08/11/23	26	46	CB around linear reg	-0.00394	0.0190
G402	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/11/23	26	23	CB around linear reg	-0.00277	0.00590
G402	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/11/23	27	15	CI around median	0.295	0.513
G402	UA	E002	Lead, total	mg/L	11/21/15 - 08/11/23	25	28	CB around linear reg	-0.00413	0.0120
G402	UA	E002	Lithium, total	mg/L	11/21/15 - 08/11/23	26	4	CB around linear reg	0.0108	0.0190
G402	UA	E002	Mercury, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.0002	0.0002
G402	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	0.00103	0.00450
G402	UA	E002	pH (field)	SU	11/21/15 - 08/11/23	27	0	CB around linear reg	6.8/7.1	6.6/7.5
G402	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/11/23	26	0	CI around median	0.547	1.89
G402	UA	E002	Selenium, total	mg/L	11/21/15 - 08/11/23	26	77	CB around T-S line	0.000439	0.00480
G402	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/11/23	27	0	CB around T-S line	427	370
G402	UA	E002	Thallium, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.002	0.001
G402	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/11/23	27	0	CB around linear reg	1,300	840
G403	UA	E002	Antimony, total	mg/L	11/23/15 - 08/11/23	23	100	All ND - Last	0.001	0.003
G403	UA	E002	Arsenic, total	mg/L	11/23/15 - 08/11/23	26	58	CB around T-S line	0.000177	0.00660
G403	UA	E002	Barium, total	mg/L	11/23/15 - 08/11/23	26	0	CB around T-S line	0.0779	0.140
G403	UA	E002	Beryllium, total	mg/L	11/23/15 - 08/11/23	25	100	All ND - Last	0.001	0.001
G403	UA	E002	Boron, total	mg/L	11/23/15 - 08/11/23	27	18	CI around geomean	0.0157	0.0290
G403	UA	E002	Cadmium, total	mg/L	11/23/15 - 08/11/23	26	100	All ND - Last	0.001	0.001
G403	UA	E002	Chloride, total	mg/L	11/23/15 - 08/11/23	27	0	CB around linear reg	4.22	75.0
G403	UA	E002	Chromium, total	mg/L	11/23/15 - 08/11/23	26	92	CB around T-S line	0.00358	0.0190
G403	UA	E002	Cobalt, total	mg/L	11/23/15 - 08/11/23	26	58	CI around median	0.002	0.00590
G403	UA	E002	Fluoride, total	mg/L	11/23/15 - 08/11/23	27	11	CB around T-S line	0.188	0.513
G403	UA	E002	Lead, total	mg/L	11/23/15 - 08/11/23	25	88	CI around median	0.001	0.0120
G403	UA	E002	Lithium, total	mg/L	11/23/15 - 08/11/23	26	96	CB around T-S line	0.01	0.0190
G403	UA	E002	Mercury, total	mg/L	11/23/15 - 08/11/23	25	100	All ND - Last	0.0002	0.0002
G403	UA	E002	Molybdenum, total	mg/L	11/23/15 - 08/11/23	26	73	CI around median	0.001	0.00450

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
COFFEEN POWER PLANT
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COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G403	UA	E002	pH (field)	SU	11/23/15 - 08/11/23	27	0	CI around mean	6.8/7.0	6.6/7.5
G403	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/23/15 - 08/11/23	26	0	CI around mean	0.598	1.89
G403	UA	E002	Selenium, total	mg/L	11/23/15 - 08/11/23	26	96	CI around median	0.001	0.00480
G403	UA	E002	Sulfate, total	mg/L	11/23/15 - 08/11/23	27	0	CB around T-S line	51.1	370
G403	UA	E002	Thallium, total	mg/L	11/23/15 - 08/11/23	23	100	All ND - Last	0.002	0.001
G403	UA	E002	Total Dissolved Solids	mg/L	11/23/15 - 08/11/23	27	0	CB around linear reg	380	840
G404	UA	E002	Antimony, total	mg/L	11/21/15 - 08/14/23	23	96	CI around median	0.003	0.003
G404	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/14/23	26	85	CI around median	0.001	0.00660
G404	UA	E002	Barium, total	mg/L	11/21/15 - 08/14/23	26	0	CB around linear reg	0.02	0.140
G404	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/14/23	25	100	All ND - Last	0.001	0.001
G404	UA	E002	Boron, total	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	6.35	0.0290
G404	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/14/23	26	100	All ND - Last	0.001	0.001
G404	UA	E002	Chloride, total	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	121	75.0
G404	UA	E002	Chromium, total	mg/L	11/21/15 - 08/14/23	26	96	CI around median	0.004	0.0190
G404	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/14/23	26	93	CI around median	0.002	0.00590
G404	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/14/23	27	79	CI around median	0.25	0.513
G404	UA	E002	Lead, total	mg/L	11/21/15 - 08/14/23	25	96	CI around median	0.001	0.0120
G404	UA	E002	Lithium, total	mg/L	11/21/15 - 08/14/23	26	85	CB around T-S line	0.01	0.0190
G404	UA	E002	Mercury, total	mg/L	11/21/15 - 08/14/23	25	100	All ND - Last	0.0002	0.0002
G404	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/14/23	26	100	All ND - Last	0.0015	0.00450
G404	UA	E002	pH (field)	SU	11/21/15 - 08/14/23	27	0	CB around linear reg	6.5/6.8	6.6/7.5
G404	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/14/23	26	0	CI around mean	0.625	1.89
G404	UA	E002	Selenium, total	mg/L	11/21/15 - 08/14/23	26	100	All ND - Last	0.001	0.00480
G404	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	452	370
G404	UA	E002	Thallium, total	mg/L	11/21/15 - 08/14/23	23	100	All ND - Last	0.002	0.001
G404	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/14/23	27	0	CB around linear reg	1,300	840
G405	UA	E002	Antimony, total	mg/L	11/21/15 - 08/11/23	23	96	CI around median	0.003	0.003

ATTACHMENT C.
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COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G405	UA	E002	Arsenic, total	mg/L	11/21/15 - 08/11/23	26	33	CB around T-S line	-0.00274	0.00660
G405	UA	E002	Barium, total	mg/L	11/21/15 - 08/11/23	26	0	CB around linear reg	0.0071	0.140
G405	UA	E002	Beryllium, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.001	0.001
G405	UA	E002	Boron, total	mg/L	11/21/15 - 08/11/23	27	0	CI around mean	9.25	0.0290
G405	UA	E002	Cadmium, total	mg/L	11/21/15 - 08/11/23	26	96	CI around median	0.001	0.001
G405	UA	E002	Chloride, total	mg/L	11/21/15 - 08/11/23	27	0	CB around T-S line	-3.13	75.0
G405	UA	E002	Chromium, total	mg/L	11/21/15 - 08/11/23	26	89	CI around median	0.004	0.0190
G405	UA	E002	Cobalt, total	mg/L	11/21/15 - 08/11/23	26	70	CB around T-S line	0.00114	0.00590
G405	UA	E002	Fluoride, total	mg/L	11/21/15 - 08/11/23	27	11	CB around linear reg	0.22	0.513
G405	UA	E002	Lead, total	mg/L	11/21/15 - 08/11/23	25	50	CB around T-S line	-0.000982	0.0120
G405	UA	E002	Lithium, total	mg/L	11/21/15 - 08/11/23	26	92	CB around T-S line	0.01	0.0190
G405	UA	E002	Mercury, total	mg/L	11/21/15 - 08/11/23	25	100	All ND - Last	0.0002	0.0002
G405	UA	E002	Molybdenum, total	mg/L	11/21/15 - 08/11/23	26	41	CI around median	0.001	0.00450
G405	UA	E002	pH (field)	SU	11/21/15 - 08/11/23	27	0	CI around mean	6.8/7.0	6.6/7.5
G405	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 08/11/23	26	0	CI around median	0.598	1.89
G405	UA	E002	Selenium, total	mg/L	11/21/15 - 08/11/23	26	89	CI around median	0.001	0.00480
G405	UA	E002	Sulfate, total	mg/L	11/21/15 - 08/11/23	27	0	CB around linear reg	436	370
G405	UA	E002	Thallium, total	mg/L	11/21/15 - 08/11/23	23	100	All ND - Last	0.002	0.001
G405	UA	E002	Total Dissolved Solids	mg/L	11/21/15 - 08/11/23	27	0	CI around mean	1,540	840
G406	UA	E002	Antimony, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.003
G406	UA	E002	Arsenic, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.001	0.00660
G406	UA	E002	Barium, total	mg/L	10/14/20 - 08/11/23	12	0	CI around median	0.012	0.140
G406	UA	E002	Beryllium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.001
G406	UA	E002	Boron, total	mg/L	10/14/20 - 08/11/23	12	0	CI around median	1.4	0.0290
G406	UA	E002	Cadmium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.001
G406	UA	E002	Chloride, total	mg/L	10/14/20 - 08/11/23	12	17	CI around mean	3.05	75.0
G406	UA	E002	Chromium, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.004	0.0190

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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ASH POND NO. 2
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G406	UA	E002	Cobalt, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.00590
G406	UA	E002	Fluoride, total	mg/L	10/14/20 - 08/11/23	12	17	CI around geomean	0.268	0.513
G406	UA	E002	Lead, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.001	0.0120
G406	UA	E002	Lithium, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.02	0.0190
G406	UA	E002	Mercury, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.0002	0.0002
G406	UA	E002	Molybdenum, total	mg/L	10/14/20 - 08/11/23	12	92	CI around median	0.001	0.00450
G406	UA	E002	pH (field)	SU	10/14/20 - 08/11/23	12	0	CI around mean	6.5/6.7	6.6/7.5
G406	UA	E002	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 08/11/23	12	0	CI around mean	0.226	1.89
G406	UA	E002	Selenium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.001	0.00480
G406	UA	E002	Sulfate, total	mg/L	10/14/20 - 08/11/23	12	0	CI around median	450	370
G406	UA	E002	Thallium, total	mg/L	10/14/20 - 08/11/23	12	100	All ND - Last	0.002	0.001
G406	UA	E002	Total Dissolved Solids	mg/L	10/14/20 - 08/11/23	12	0	CI around mean	1,000	840
G407	UA	E002	Antimony, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.003
G407	UA	E002	Arsenic, total	mg/L	10/14/20 - 08/10/23	12	83	CI around median	0.001	0.00660
G407	UA	E002	Barium, total	mg/L	10/14/20 - 08/10/23	12	0	CI around median	0.012	0.140
G407	UA	E002	Beryllium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.001
G407	UA	E002	Boron, total	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	0.07	0.0290
G407	UA	E002	Cadmium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.001
G407	UA	E002	Chloride, total	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	11.3	75.0
G407	UA	E002	Chromium, total	mg/L	10/14/20 - 08/10/23	12	83	CI around median	0.004	0.0190
G407	UA	E002	Cobalt, total	mg/L	10/14/20 - 08/10/23	12	92	CI around median	0.002	0.00590
G407	UA	E002	Fluoride, total	mg/L	10/14/20 - 08/10/23	12	25	CI around geomean	0.259	0.513
G407	UA	E002	Lead, total	mg/L	10/14/20 - 08/10/23	12	92	CI around median	0.001	0.0120
G407	UA	E002	Lithium, total	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	0.0389	0.0190
G407	UA	E002	Mercury, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.0002	0.0002
G407	UA	E002	Molybdenum, total	mg/L	10/14/20 - 08/10/23	12	17	CI around median	0.0012	0.00450
G407	UA	E002	pH (field)	SU	10/14/20 - 08/10/23	12	0	CI around mean	6.6/6.8	6.6/7.5

**ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G407	UA	E002	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 08/10/23	12	0	CI around mean	0.162	1.89
G407	UA	E002	Selenium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.001	0.00480
G407	UA	E002	Sulfate, total	mg/L	10/14/20 - 08/10/23	12	0	CI around median	440	370
G407	UA	E002	Thallium, total	mg/L	10/14/20 - 08/10/23	12	100	All ND - Last	0.002	0.001
G407	UA	E002	Total Dissolved Solids	mg/L	10/14/20 - 08/10/23	12	0	CI around mean	1,910	840

Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

For pH, the values presented are the lower / upper limits of the background determination