



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

March 10, 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 is submitting groundwater monitoring data for the Quarter 4, 2023 sampling event at the Coffeen Power Plant Ash Pond 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 GWPSs detected during the Quarter 2, 2023 sampling event. The IEPA provided a written response on January 11, 2024 that did not concur with the ASDs. Therefore, a Corrective Measures Assessment 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 4, 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 4, 2023 ASH POND NO. 2, COFFEEN POWER PLANT, COFFEEN, ILLINOIS

March 10, 2024

Samples were collected between November 14, 2023 and November 21, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on January 10, 2024. Since Quarter 4, 2023 results were not available for inclusion in the 2023 Annual Groundwater Monitoring and Corrective Action Report (2023 Annual Report), this document also serves as an addendum to the 2023 Annual Report.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2023 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 4, 2023 sampling event. SG-04 located on the unnamed tributary was destroyed following a rain event in October 2023; alternative construction methods for monitoring at this location are being evaluated. Monitoring well G1003 was dry; therefore, groundwater elevation data was not recorded 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 4, 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 demonstrations² (ASDs) were submitted on December 15, 2023 for the exceedances of the GWPSs detected during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on January 11, 2024³ 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. GWPS exceedances for subsequent events will be incorporated into the CMA on a case-by-case basis, as opposed to generating a new CMA. As allowed in 35

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 (Geosyntec), 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.*

Geosyntec Consultants (Geosyntec), 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.*

³ Illinois Environmental Protection Agency (IEPA), 2023. *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 Source Demonstration (ASD) Submittal. January 11, 2024.*

I.A.C. § 845.650(e), an ASD will be evaluated for new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 4, 2023
Table 2	Comparison of Statistical Results to GWPS - Quarter 4, 2023

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 4, 2023
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 4, 2023
Attachment C	Comparison of Statistical Results to Background - Quarter 4, 2023

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G270	Background	E003	11/17/2023	Antimony, total	0.0004 U	mg/L
G270	Background	E003	11/17/2023	Arsenic, total	0.0005 J	mg/L
G270	Background	E003	11/17/2023	Barium, total	0.0649	mg/L
G270	Background	E003	11/17/2023	Beryllium, total	0.0002 U	mg/L
G270	Background	E003	11/17/2023	Boron, total	0.0125 U	mg/L
G270	Background	E003	11/17/2023	Cadmium, total	0.0002 U	mg/L
G270	Background	E003	11/17/2023	Calcium, total	58.1	mg/L
G270	Background	E003	11/17/2023	Chloride, total	15.0	mg/L
G270	Background	E003	11/17/2023	Chromium, total	0.0007 U	mg/L
G270	Background	E003	11/17/2023	Cobalt, total	0.0002 J	mg/L
G270	Background	E003	11/17/2023	Dissolved Oxygen	1.91	mg/L
G270	Background	E003	11/17/2023	Fluoride, total	0.380	mg/L
G270	Background	E003	11/17/2023	Lead, total	0.0006 U	mg/L
G270	Background	E003	11/17/2023	Lithium, total	0.00310	mg/L
G270	Background	E003	11/17/2023	Mercury, total	0.00006 U	mg/L
G270	Background	E003	11/17/2023	Molybdenum, total	0.0011 J	mg/L
G270	Background	E003	11/17/2023	Oxidation Reduction Potential	98.0	mV
G270	Background	E003	11/17/2023	pH (field)	7.1	SU
G270	Background	E003	11/17/2023	Radium 226 + Radium 228, total	1.06	pCi/L
G270	Background	E003	11/17/2023	Selenium, total	0.0006 U	mg/L
G270	Background	E003	11/17/2023	Specific Conductance @ 25C (field)	689	micromhos/cm
G270	Background	E003	11/17/2023	Sulfate, total	50.0	mg/L
G270	Background	E003	11/17/2023	Temperature	15.2	degrees C
G270	Background	E003	11/17/2023	Thallium, total	0.001 U	mg/L
G270	Background	E003	11/17/2023	Total Dissolved Solids	460	mg/L
G270	Background	E003	11/17/2023	Turbidity, field	10.0	NTU
G280	Background	E003	11/20/2023	Antimony, total	0.0005 U	mg/L
G280	Background	E003	11/20/2023	Arsenic, total	0.0005 J	mg/L
G280	Background	E003	11/20/2023	Barium, total	0.0611	mg/L
G280	Background	E003	11/20/2023	Beryllium, total	0.0002 U	mg/L
G280	Background	E003	11/20/2023	Boron, total	0.01 J	mg/L
G280	Background	E003	11/20/2023	Cadmium, total	0.0002 U	mg/L
G280	Background	E003	11/20/2023	Calcium, total	91.5	mg/L
G280	Background	E003	11/20/2023	Chloride, total	70.0	mg/L
G280	Background	E003	11/20/2023	Chromium, total	0.0015 UJ	mg/L
G280	Background	E003	11/20/2023	Cobalt, total	0.0002 J	mg/L
G280	Background	E003	11/20/2023	Dissolved Oxygen	1.79	mg/L
G280	Background	E003	11/20/2023	Fluoride, total	0.330	mg/L
G280	Background	E003	11/20/2023	Lead, total	0.0006 U	mg/L
G280	Background	E003	11/20/2023	Lithium, total	0.00540	mg/L
G280	Background	E003	11/20/2023	Mercury, total	0.00006 U	mg/L
G280	Background	E003	11/20/2023	Molybdenum, total	0.00240	mg/L
G280	Background	E003	11/20/2023	Oxidation Reduction Potential	107	mV
G280	Background	E003	11/20/2023	pH (field)	7.4	SU
G280	Background	E003	11/20/2023	Selenium, total	0.00130	mg/L
G280	Background	E003	11/20/2023	Specific Conductance @ 25C (field)	849	micromhos/cm

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G280	Background	E003	11/20/2023	Sulfate, total	113	mg/L
G280	Background	E003	11/20/2023	Temperature	14.7	degrees C
G280	Background	E003	11/20/2023	Thallium, total	0.001 U	mg/L
G280	Background	E003	11/20/2023	Total Dissolved Solids	608	mg/L
G280	Background	E003	11/20/2023	Turbidity, field	7.90	NTU
G281	Background	E003	11/20/2023	Antimony, total	0.0005 U	mg/L
G281	Background	E003	11/20/2023	Arsenic, total	0.0005 J	mg/L
G281	Background	E003	11/20/2023	Barium, total	0.0651	mg/L
G281	Background	E003	11/20/2023	Beryllium, total	0.0002 U	mg/L
G281	Background	E003	11/20/2023	Boron, total	0.0092 U	mg/L
G281	Background	E003	11/20/2023	Cadmium, total	0.0002 U	mg/L
G281	Background	E003	11/20/2023	Calcium, total	152	mg/L
G281	Background	E003	11/20/2023	Chloride, total	74.0	mg/L
G281	Background	E003	11/20/2023	Chromium, total	0.0015 UJ	mg/L
G281	Background	E003	11/20/2023	Cobalt, total	0.0006 J	mg/L
G281	Background	E003	11/20/2023	Dissolved Oxygen	1.54	mg/L
G281	Background	E003	11/20/2023	Fluoride, total	0.360	mg/L
G281	Background	E003	11/20/2023	Lead, total	0.0006 U	mg/L
G281	Background	E003	11/20/2023	Lithium, total	0.00440	mg/L
G281	Background	E003	11/20/2023	Mercury, total	0.00006 U	mg/L
G281	Background	E003	11/20/2023	Molybdenum, total	0.0008 J	mg/L
G281	Background	E003	11/20/2023	Oxidation Reduction Potential	112	mV
G281	Background	E003	11/20/2023	pH (field)	6.9	SU
G281	Background	E003	11/20/2023	Radium 226 + Radium 228, total	4.19	pCi/L
G281	Background	E003	11/20/2023	Selenium, total	0.0006 U	mg/L
G281	Background	E003	11/20/2023	Specific Conductance @ 25C (field)	1,250	micromhos/cm
G281	Background	E003	11/20/2023	Sulfate, total	293	mg/L
G281	Background	E003	11/20/2023	Temperature	16.1	degrees C
G281	Background	E003	11/20/2023	Thallium, total	0.001 U	mg/L
G281	Background	E003	11/20/2023	Total Dissolved Solids	958	mg/L
G281	Background	E003	11/20/2023	Turbidity, field	9.40	NTU
G1001	Compliance	E003	11/14/2023	Antimony, total	0.00490	mg/L
G1001	Compliance	E003	11/14/2023	Arsenic, total	0.00150	mg/L
G1001	Compliance	E003	11/14/2023	Barium, total	0.0917	mg/L
G1001	Compliance	E003	11/14/2023	Beryllium, total	0.0002 U	mg/L
G1001	Compliance	E003	11/14/2023	Boron, total	1.10	mg/L
G1001	Compliance	E003	11/14/2023	Cadmium, total	0.0002 U	mg/L
G1001	Compliance	E003	11/14/2023	Calcium, total	131	mg/L
G1001	Compliance	E003	11/14/2023	Chloride, total	16.0	mg/L
G1001	Compliance	E003	11/14/2023	Chromium, total	0.00280 J+	mg/L
G1001	Compliance	E003	11/14/2023	Cobalt, total	0.00190	mg/L
G1001	Compliance	E003	11/14/2023	Dissolved Oxygen	1.59	mg/L
G1001	Compliance	E003	11/14/2023	Fluoride, total	0.320	mg/L
G1001	Compliance	E003	11/14/2023	Lead, total	0.00110	mg/L
G1001	Compliance	E003	11/14/2023	Lithium, total	0.0105	mg/L
G1001	Compliance	E003	11/14/2023	Mercury, total	0.00006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G1001	Compliance	E003	11/14/2023	Molybdenum, total	0.00840	mg/L
G1001	Compliance	E003	11/14/2023	Oxidation Reduction Potential	0	mV
G1001	Compliance	E003	11/14/2023	pH (field)	7.0	SU
G1001	Compliance	E003	11/14/2023	Radium 226 + Radium 228, total	1.32	pCi/L
G1001	Compliance	E003	11/14/2023	Selenium, total	0.0006 U	mg/L
G1001	Compliance	E003	11/14/2023	Specific Conductance @ 25C (field)	1,220	micromhos/cm
G1001	Compliance	E003	11/14/2023	Sulfate, total	291	mg/L
G1001	Compliance	E003	11/14/2023	Temperature	16.7	degrees C
G1001	Compliance	E003	11/14/2023	Thallium, total	0.001 U	mg/L
G1001	Compliance	E003	11/14/2023	Total Dissolved Solids	900	mg/L
G1001	Compliance	E003	11/14/2023	Turbidity, field	10.0	NTU
G401	Compliance	E003	11/21/2023	Antimony, total	0.0004 U	mg/L
G401	Compliance	E003	11/21/2023	Arsenic, total	0.00160	mg/L
G401	Compliance	E003	11/21/2023	Barium, total	0.0132	mg/L
G401	Compliance	E003	11/21/2023	Beryllium, total	0.0002 U	mg/L
G401	Compliance	E003	11/21/2023	Boron, total	5.37	mg/L
G401	Compliance	E003	11/21/2023	Cadmium, total	0.0003 J	mg/L
G401	Compliance	E003	11/21/2023	Calcium, total	553	mg/L
G401	Compliance	E003	11/21/2023	Chloride, total	3 J	mg/L
G401	Compliance	E003	11/21/2023	Chromium, total	0.0007 U	mg/L
G401	Compliance	E003	11/21/2023	Cobalt, total	0.206	mg/L
G401	Compliance	E003	11/21/2023	Dissolved Oxygen	1.13	mg/L
G401	Compliance	E003	11/21/2023	Fluoride, total	0.200	mg/L
G401	Compliance	E003	11/21/2023	Lead, total	0.0006 U	mg/L
G401	Compliance	E003	11/21/2023	Lithium, total	0.0329	mg/L
G401	Compliance	E003	11/21/2023	Mercury, total	0.00006 U	mg/L
G401	Compliance	E003	11/21/2023	Molybdenum, total	0.0008 U	mg/L
G401	Compliance	E003	11/21/2023	Oxidation Reduction Potential	15.0	mV
G401	Compliance	E003	11/21/2023	pH (field)	5.9	SU
G401	Compliance	E003	11/21/2023	Radium 226 + Radium 228, total	8.66	pCi/L
G401	Compliance	E003	11/21/2023	Selenium, total	0.0006 U	mg/L
G401	Compliance	E003	11/21/2023	Specific Conductance @ 25C (field)	2,830	micromhos/cm
G401	Compliance	E003	11/21/2023	Sulfate, total	1,980	mg/L
G401	Compliance	E003	11/21/2023	Temperature	12.9	degrees C
G401	Compliance	E003	11/21/2023	Thallium, total	0.001 U	mg/L
G401	Compliance	E003	11/21/2023	Total Dissolved Solids	2,940	mg/L
G401	Compliance	E003	11/21/2023	Turbidity, field	28.0	NTU
G402	Compliance	E003	11/21/2023	Antimony, total	0.0004 U	mg/L
G402	Compliance	E003	11/21/2023	Arsenic, total	0.00240	mg/L
G402	Compliance	E003	11/21/2023	Barium, total	0.0281	mg/L
G402	Compliance	E003	11/21/2023	Beryllium, total	0.0002 U	mg/L
G402	Compliance	E003	11/21/2023	Boron, total	8.13	mg/L
G402	Compliance	E003	11/21/2023	Cadmium, total	0.0002 U	mg/L
G402	Compliance	E003	11/21/2023	Calcium, total	213	mg/L
G402	Compliance	E003	11/21/2023	Chloride, total	2 J	mg/L
G402	Compliance	E003	11/21/2023	Chromium, total	0.00150 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G402	Compliance	E003	11/21/2023	Cobalt, total	0.00150	mg/L
G402	Compliance	E003	11/21/2023	Dissolved Oxygen	3.40	mg/L
G402	Compliance	E003	11/21/2023	Fluoride, total	0.340	mg/L
G402	Compliance	E003	11/21/2023	Lead, total	0.0006 U	mg/L
G402	Compliance	E003	11/21/2023	Lithium, total	0.0320	mg/L
G402	Compliance	E003	11/21/2023	Mercury, total	0.00008 U	mg/L
G402	Compliance	E003	11/21/2023	Molybdenum, total	0.00240	mg/L
G402	Compliance	E003	11/21/2023	Oxidation Reduction Potential	158	mV
G402	Compliance	E003	11/21/2023	pH (field)	6.7	SU
G402	Compliance	E003	11/21/2023	Radium 226 + Radium 228, total	2.95	pCi/L
G402	Compliance	E003	11/21/2023	Selenium, total	0.0006 U	mg/L
G402	Compliance	E003	11/21/2023	Specific Conductance @ 25C (field)	1,580	micromhos/cm
G402	Compliance	E003	11/21/2023	Sulfate, total	599	mg/L
G402	Compliance	E003	11/21/2023	Temperature	15.0	degrees C
G402	Compliance	E003	11/21/2023	Thallium, total	0.001 U	mg/L
G402	Compliance	E003	11/21/2023	Total Dissolved Solids	1,360	mg/L
G402	Compliance	E003	11/21/2023	Turbidity, field	21.0	NTU
G403	Compliance	E003	11/20/2023	Antimony, total	0.0004 U	mg/L
G403	Compliance	E003	11/20/2023	Arsenic, total	0.0004 J	mg/L
G403	Compliance	E003	11/20/2023	Barium, total	0.139	mg/L
G403	Compliance	E003	11/20/2023	Beryllium, total	0.0002 U	mg/L
G403	Compliance	E003	11/20/2023	Boron, total	0.0200 J	mg/L
G403	Compliance	E003	11/20/2023	Cadmium, total	0.0002 U	mg/L
G403	Compliance	E003	11/20/2023	Calcium, total	85.9	mg/L
G403	Compliance	E003	11/20/2023	Chloride, total	5.00	mg/L
G403	Compliance	E003	11/20/2023	Chromium, total	0.0015 UJ	mg/L
G403	Compliance	E003	11/20/2023	Cobalt, total	0.00260	mg/L
G403	Compliance	E003	11/20/2023	Dissolved Oxygen	1.22	mg/L
G403	Compliance	E003	11/20/2023	Fluoride, total	0.340	mg/L
G403	Compliance	E003	11/20/2023	Lead, total	0.0006 U	mg/L
G403	Compliance	E003	11/20/2023	Lithium, total	0.00450	mg/L
G403	Compliance	E003	11/20/2023	Mercury, total	0.00006 U	mg/L
G403	Compliance	E003	11/20/2023	Molybdenum, total	0.0008 U	mg/L
G403	Compliance	E003	11/20/2023	Oxidation Reduction Potential	112	mV
G403	Compliance	E003	11/20/2023	pH (field)	6.9	SU
G403	Compliance	E003	11/20/2023	Radium 226 + Radium 228, total	2.25	pCi/L
G403	Compliance	E003	11/20/2023	Selenium, total	0.0006 U	mg/L
G403	Compliance	E003	11/20/2023	Specific Conductance @ 25C (field)	685	micromhos/cm
G403	Compliance	E003	11/20/2023	Sulfate, total	74.0	mg/L
G403	Compliance	E003	11/20/2023	Temperature	15.1	degrees C
G403	Compliance	E003	11/20/2023	Thallium, total	0.001 U	mg/L
G403	Compliance	E003	11/20/2023	Total Dissolved Solids	508	mg/L
G403	Compliance	E003	11/20/2023	Turbidity, field	4.20	NTU
G404	Compliance	E003	11/21/2023	Antimony, total	0.0004 U	mg/L
G404	Compliance	E003	11/21/2023	Arsenic, total	0.0007 J	mg/L
G404	Compliance	E003	11/21/2023	Barium, total	0.0369	mg/L

TABLE 1.
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845 QUARTERLY REPORT
 COFFEEN POWER PLANT
 ASH POND NO. 2
 COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G404	Compliance	E003	11/21/2023	Beryllium, total	0.0002 U	mg/L
G404	Compliance	E003	11/21/2023	Boron, total	21.2	mg/L
G404	Compliance	E003	11/21/2023	Cadmium, total	0.0002 U	mg/L
G404	Compliance	E003	11/21/2023	Calcium, total	273	mg/L
G404	Compliance	E003	11/21/2023	Chloride, total	71.0	mg/L
G404	Compliance	E003	11/21/2023	Chromium, total	0.0015 UJ	mg/L
G404	Compliance	E003	11/21/2023	Cobalt, total	0.0006 J	mg/L
G404	Compliance	E003	11/21/2023	Dissolved Oxygen	2.09	mg/L
G404	Compliance	E003	11/21/2023	Fluoride, total	0.190	mg/L
G404	Compliance	E003	11/21/2023	Lead, total	0.0006 U	mg/L
G404	Compliance	E003	11/21/2023	Lithium, total	0.0116	mg/L
G404	Compliance	E003	11/21/2023	Mercury, total	0.00006 U	mg/L
G404	Compliance	E003	11/21/2023	Molybdenum, total	0.0011 J	mg/L
G404	Compliance	E003	11/21/2023	Oxidation Reduction Potential	85.0	mV
G404	Compliance	E003	11/21/2023	pH (field)	6.7	SU
G404	Compliance	E003	11/21/2023	Radium 226 + Radium 228, total	0.75	pCi/L
G404	Compliance	E003	11/21/2023	Selenium, total	0.0006 U	mg/L
G404	Compliance	E003	11/21/2023	Specific Conductance @ 25C (field)	2,030	micromhos/cm
G404	Compliance	E003	11/21/2023	Sulfate, total	647	mg/L
G404	Compliance	E003	11/21/2023	Temperature	13.7	degrees C
G404	Compliance	E003	11/21/2023	Thallium, total	0.001 U	mg/L
G404	Compliance	E003	11/21/2023	Total Dissolved Solids	1,370	mg/L
G404	Compliance	E003	11/21/2023	Turbidity, field	8.10	NTU
G405	Compliance	E003	11/21/2023	Antimony, total	0.0008 J+	mg/L
G405	Compliance	E003	11/21/2023	Arsenic, total	0.00160	mg/L
G405	Compliance	E003	11/21/2023	Barium, total	0.0259	mg/L
G405	Compliance	E003	11/21/2023	Beryllium, total	0.0002 U	mg/L
G405	Compliance	E003	11/21/2023	Boron, total	15.4	mg/L
G405	Compliance	E003	11/21/2023	Cadmium, total	0.0002 J	mg/L
G405	Compliance	E003	11/21/2023	Calcium, total	248	mg/L
G405	Compliance	E003	11/21/2023	Chloride, total	17.0	mg/L
G405	Compliance	E003	11/21/2023	Chromium, total	0.0015 UJ	mg/L
G405	Compliance	E003	11/21/2023	Cobalt, total	0.00150	mg/L
G405	Compliance	E003	11/21/2023	Dissolved Oxygen	3.08	mg/L
G405	Compliance	E003	11/21/2023	Fluoride, total	0.470	mg/L
G405	Compliance	E003	11/21/2023	Lead, total	0.0006 U	mg/L
G405	Compliance	E003	11/21/2023	Lithium, total	0.00470	mg/L
G405	Compliance	E003	11/21/2023	Mercury, total	0.00006 U	mg/L
G405	Compliance	E003	11/21/2023	Molybdenum, total	0.00150 J	mg/L
G405	Compliance	E003	11/21/2023	Oxidation Reduction Potential	76.0	mV
G405	Compliance	E003	11/21/2023	pH (field)	7.0	SU
G405	Compliance	E003	11/21/2023	Radium 226 + Radium 228, total	0.688	pCi/L
G405	Compliance	E003	11/21/2023	Selenium, total	0.0006 U	mg/L
G405	Compliance	E003	11/21/2023	Specific Conductance @ 25C (field)	1,840	micromhos/cm
G405	Compliance	E003	11/21/2023	Sulfate, total	897	mg/L
G405	Compliance	E003	11/21/2023	Temperature	15.3	degrees C

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G405	Compliance	E003	11/21/2023	Thallium, total	0.001 U	mg/L
G405	Compliance	E003	11/21/2023	Total Dissolved Solids	1,610	mg/L
G405	Compliance	E003	11/21/2023	Turbidity, field	5.50	NTU
G406	Compliance	E003	11/20/2023	Antimony, total	0.0004 U	mg/L
G406	Compliance	E003	11/20/2023	Arsenic, total	0.0004 U	mg/L
G406	Compliance	E003	11/20/2023	Barium, total	0.0201	mg/L
G406	Compliance	E003	11/20/2023	Beryllium, total	0.0002 U	mg/L
G406	Compliance	E003	11/20/2023	Boron, total	2.29	mg/L
G406	Compliance	E003	11/20/2023	Cadmium, total	0.0002 U	mg/L
G406	Compliance	E003	11/20/2023	Calcium, total	206	mg/L
G406	Compliance	E003	11/20/2023	Chloride, total	5.00	mg/L
G406	Compliance	E003	11/20/2023	Chromium, total	0.0007 U	mg/L
G406	Compliance	E003	11/20/2023	Cobalt, total	0.0008 J	mg/L
G406	Compliance	E003	11/20/2023	Dissolved Oxygen	1.81	mg/L
G406	Compliance	E003	11/20/2023	Fluoride, total	0.320	mg/L
G406	Compliance	E003	11/20/2023	Lead, total	0.0006 U	mg/L
G406	Compliance	E003	11/20/2023	Lithium, total	0.0183	mg/L
G406	Compliance	E003	11/20/2023	Mercury, total	0.00006 U	mg/L
G406	Compliance	E003	11/20/2023	Molybdenum, total	0.0008 U	mg/L
G406	Compliance	E003	11/20/2023	Oxidation Reduction Potential	127	mV
G406	Compliance	E003	11/20/2023	pH (field)	6.6	SU
G406	Compliance	E003	11/20/2023	Radium 226 + Radium 228, total	0.63	pCi/L
G406	Compliance	E003	11/20/2023	Selenium, total	0.0006 U	mg/L
G406	Compliance	E003	11/20/2023	Specific Conductance @ 25C (field)	1,210	micromhos/cm
G406	Compliance	E003	11/20/2023	Sulfate, total	450	mg/L
G406	Compliance	E003	11/20/2023	Temperature	15.7	degrees C
G406	Compliance	E003	11/20/2023	Thallium, total	0.001 U	mg/L
G406	Compliance	E003	11/20/2023	Total Dissolved Solids	1,060	mg/L
G406	Compliance	E003	11/20/2023	Turbidity, field	3.00	NTU
G407	Compliance	E003	11/20/2023	Antimony, total	0.0004 U	mg/L
G407	Compliance	E003	11/20/2023	Arsenic, total	0.0006 J	mg/L
G407	Compliance	E003	11/20/2023	Barium, total	0.0193	mg/L
G407	Compliance	E003	11/20/2023	Beryllium, total	0.0002 U	mg/L
G407	Compliance	E003	11/20/2023	Boron, total	0.139	mg/L
G407	Compliance	E003	11/20/2023	Cadmium, total	0.0002 U	mg/L
G407	Compliance	E003	11/20/2023	Calcium, total	397	mg/L
G407	Compliance	E003	11/20/2023	Chloride, total	12.0	mg/L
G407	Compliance	E003	11/20/2023	Chromium, total	0.0015 UJ	mg/L
G407	Compliance	E003	11/20/2023	Cobalt, total	0.00200	mg/L
G407	Compliance	E003	11/20/2023	Dissolved Oxygen	1.56	mg/L
G407	Compliance	E003	11/20/2023	Fluoride, total	0.330	mg/L
G407	Compliance	E003	11/20/2023	Lead, total	0.0006 U	mg/L
G407	Compliance	E003	11/20/2023	Lithium, total	0.0718	mg/L
G407	Compliance	E003	11/20/2023	Mercury, total	0.00006 U	mg/L
G407	Compliance	E003	11/20/2023	Molybdenum, total	0.00220	mg/L
G407	Compliance	E003	11/20/2023	Oxidation Reduction Potential	124	mV

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G407	Compliance	E003	11/20/2023	pH (field)	6.6	SU
G407	Compliance	E003	11/20/2023	Radium 226 + Radium 228, total	0.921	pCi/L
G407	Compliance	E003	11/20/2023	Selenium, total	0.0006 U	mg/L
G407	Compliance	E003	11/20/2023	Specific Conductance @ 25C (field)	2,980	micromhos/cm
G407	Compliance	E003	11/20/2023	Sulfate, total	1,010	mg/L
G407	Compliance	E003	11/20/2023	Temperature	14.2	degrees C
G407	Compliance	E003	11/20/2023	Thallium, total	0.001 U	mg/L
G407	Compliance	E003	11/20/2023	Total Dissolved Solids	2,010	mg/L
G407	Compliance	E003	11/20/2023	Turbidity, field	10.0	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.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 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
G1001	LCU	E003	Antimony, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.0049	0.006	Standard	No Exceedance
G1001	LCU	E003	Arsenic, total	mg/L	02/15/23 - 11/14/23	3	33	Most recent sample	0.0015	0.010	Standard	No Exceedance
G1001	LCU	E003	Barium, total	mg/L	02/15/23 - 11/14/23	3	0	Most recent sample	0.0917	2.0	Standard	No Exceedance
G1001	LCU	E003	Beryllium, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.001	0.004	Standard	No Exceedance
G1001	LCU	E003	Boron, total	mg/L	05/12/21 - 11/14/23	4	0	CI around mean	0.395	2	Standard	No Exceedance
G1001	LCU	E003	Cadmium, total	mg/L	02/15/23 - 11/14/23	3	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G1001	LCU	E003	Chloride, total	mg/L	05/12/21 - 11/14/23	4	0	CI around mean	0.773	200	Standard	No Exceedance
G1001	LCU	E003	Chromium, total	mg/L	02/15/23 - 11/14/23	3	33	Most recent sample	0.0028	0.1	Standard	No Exceedance
G1001	LCU	E003	Cobalt, total	mg/L	05/12/21 - 11/14/23	4	50	CI around geomean	0.000175	0.006	Standard	No Exceedance
G1001	LCU	E003	Fluoride, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.32	4.0	Standard	No Exceedance
G1001	LCU	E003	Lead, total	mg/L	02/15/23 - 11/14/23	3	33	Most recent sample	0.0011	0.0120	Background	No Exceedance
G1001	LCU	E003	Lithium, total	mg/L	05/12/21 - 11/14/23	4	25	CI around mean	-0.00339	0.04	Standard	No Exceedance
G1001	LCU	E003	Mercury, total	mg/L	02/15/23 - 11/14/23	3	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G1001	LCU	E003	Molybdenum, total	mg/L	02/15/23 - 11/14/23	3	0	Most recent sample	0.0084	0.1	Standard	No Exceedance
G1001	LCU	E003	pH (field)	SU	02/15/23 - 11/14/23	3	0	Most recent sample	7.0/7.0	6.5/9.0	Standard/Standard	No Exceedance
G1001	LCU	E003	Radium 226 + Radium 228, total	pCi/L	02/15/23 - 11/14/23	3	0	Most recent sample	1.32	5	Standard	No Exceedance
G1001	LCU	E003	Selenium, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.001	0.05	Standard	No Exceedance
G1001	LCU	E003	Sulfate, total	mg/L	05/12/21 - 11/14/23	4	0	CI around mean	-195	400	Standard	No Exceedance
G1001	LCU	E003	Thallium, total	mg/L	02/15/23 - 11/14/23	3	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G1001	LCU	E003	Total Dissolved Solids	mg/L	02/15/23 - 11/14/23	3	0	Most recent sample	900	1,200	Standard	No Exceedance
G401	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G401	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	52	CB around T-S line	-0.0189	0.010	Standard	No Exceedance
G401	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around T-S line	-0.188	2.0	Standard	No Exceedance
G401	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	81	CI around median	0.001	0.004	Standard	No Exceedance
G401	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CI around median	3.5	2	Standard	Exceedance
G401	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	67	CB around T-S line	-0.00221	0.005	Standard	No Exceedance
G401	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	11	CI around geomean	2.9	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 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	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	67	CB around T-S line	-0.0432	0.1	Standard	No Exceedance
G401	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.0692	0.006	Standard	Exceedance
G401	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	89	CB around T-S line	0.25	4.0	Standard	No Exceedance
G401	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	65	CB around T-S line	-0.0201	0.0120	Background	No Exceedance
G401	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	29	3	CB around T-S line	-0.00496	0.04	Standard	No Exceedance
G401	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	81	CI around median	0.0002	0.002	Standard	No Exceedance
G401	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	70	CI around median	0.001	0.1	Standard	No Exceedance
G401	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	30	0	CI around mean	5.9/6.1	6.5/9.0	Standard/Standard	Exceedance
G401	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around geomean	0.498	5	Standard	No Exceedance
G401	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	63	CB around T-S line	-0.00195	0.05	Standard	No Exceedance
G401	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around T-S line	1,410	400	Standard	Exceedance
G401	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G401	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CI around median	2,800	1,200	Standard	Exceedance
G402	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G402	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	-0.00514	0.010	Standard	No Exceedance
G402	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	-0.00186	2.0	Standard	No Exceedance
G402	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G402	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CI around mean	5.44	2	Standard	Exceedance
G402	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	96	Most recent sample	0.001	0.005	Standard	No Exceedance
G402	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	21	CI around mean	1.59	200	Standard	No Exceedance
G402	UA	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	44	CB around T-S line	-0.00756	0.1	Standard	No Exceedance
G402	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	22	CB around linear reg	-0.00291	0.006	Standard	No Exceedance
G402	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	14	CI around median	0.295	4.0	Standard	No Exceedance
G402	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	31	CB around linear reg	-0.00416	0.0120	Background	No Exceedance
G402	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	27	4	CB around linear reg	0.0114	0.04	Standard	No Exceedance
G402	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G402	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.00106	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 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	E003	pH (field)	SU	11/21/15 - 11/21/23	28	0	CI around mean	6.7/6.8	6.5/9.0	Standard/Standard	No Exceedance
G402	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around median	0.547	5	Standard	No Exceedance
G402	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	78	CB around T-S line	0.000433	0.05	Standard	No Exceedance
G402	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around T-S line	393	400	Standard	No Exceedance
G402	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G402	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	1,290	1,200	Standard	Exceedance
G403	UA	E003	Antimony, total	mg/L	11/23/15 - 11/20/23	24	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G403	UA	E003	Arsenic, total	mg/L	11/23/15 - 11/20/23	27	59	CB around T-S line	0.000144	0.010	Standard	No Exceedance
G403	UA	E003	Barium, total	mg/L	11/23/15 - 11/20/23	27	0	CB around T-S line	0.0813	2.0	Standard	No Exceedance
G403	UA	E003	Beryllium, total	mg/L	11/23/15 - 11/20/23	26	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G403	UA	E003	Boron, total	mg/L	11/23/15 - 11/20/23	28	18	CI around geomean	0.0159	2	Standard	No Exceedance
G403	UA	E003	Cadmium, total	mg/L	11/23/15 - 11/20/23	27	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G403	UA	E003	Chloride, total	mg/L	11/23/15 - 11/20/23	28	0	CB around linear reg	4.27	200	Standard	No Exceedance
G403	UA	E003	Chromium, total	mg/L	11/23/15 - 11/20/23	27	93	CB around T-S line	0.00296	0.1	Standard	No Exceedance
G403	UA	E003	Cobalt, total	mg/L	11/23/15 - 11/20/23	27	56	CI around median	0.002	0.006	Standard	No Exceedance
G403	UA	E003	Fluoride, total	mg/L	11/23/15 - 11/20/23	28	11	CB around T-S line	0.198	4.0	Standard	No Exceedance
G403	UA	E003	Lead, total	mg/L	11/23/15 - 11/20/23	26	88	CI around median	0.001	0.0120	Background	No Exceedance
G403	UA	E003	Lithium, total	mg/L	11/23/15 - 11/20/23	27	93	CB around T-S line	0.01	0.04	Standard	No Exceedance
G403	UA	E003	Mercury, total	mg/L	11/23/15 - 11/20/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G403	UA	E003	Molybdenum, total	mg/L	11/23/15 - 11/20/23	27	74	CI around median	0.001	0.1	Standard	No Exceedance
G403	UA	E003	pH (field)	SU	11/23/15 - 11/20/23	28	0	CI around mean	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance
G403	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/23/15 - 11/20/23	27	0	CI around mean	0.624	5	Standard	No Exceedance
G403	UA	E003	Selenium, total	mg/L	11/23/15 - 11/20/23	27	96	CI around median	0.001	0.05	Standard	No Exceedance
G403	UA	E003	Sulfate, total	mg/L	11/23/15 - 11/20/23	28	0	CB around T-S line	53.8	400	Standard	No Exceedance
G403	UA	E003	Thallium, total	mg/L	11/23/15 - 11/20/23	24	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G403	UA	E003	Total Dissolved Solids	mg/L	11/23/15 - 11/20/23	28	0	CB around linear reg	393	1,200	Standard	No Exceedance
G404	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	96	CI around median	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 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
G404	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	86	CI around median	0.001	0.010	Standard	No Exceedance
G404	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.0204	2.0	Standard	No Exceedance
G404	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G404	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	7.42	2	Standard	Exceedance
G404	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G404	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	111	200	Standard	No Exceedance
G404	UA	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	96	CI around median	0.004	0.1	Standard	No Exceedance
G404	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	93	CI around median	0.002	0.006	Standard	No Exceedance
G404	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	76	CI around median	0.25	4.0	Standard	No Exceedance
G404	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	96	CI around median	0.001	0.0120	Background	No Exceedance
G404	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	27	82	CB around T-S line	0.01	0.04	Standard	No Exceedance
G404	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G404	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G404	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	28	0	CB around linear reg	6.5/6.8	6.5/9.0	Standard/Standard	No Exceedance
G404	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around mean	0.63	5	Standard	No Exceedance
G404	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G404	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	478	400	Standard	Exceedance
G404	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G404	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	1,320	1,200	Standard	Exceedance
G405	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	96	CI around median	0.003	0.006	Standard	No Exceedance
G405	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	32	CB around T-S line	-0.00261	0.010	Standard	No Exceedance
G405	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.0079	2.0	Standard	No Exceedance
G405	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G405	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CI around mean	9.42	2	Standard	Exceedance
G405	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	96	CI around median	0.001	0.005	Standard	No Exceedance
G405	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	0	CI around geomean	9.2	200	Standard	No Exceedance
G405	UA	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	89	CI around median	0.004	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 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	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	68	CB around T-S line	0.0011	0.006	Standard	No Exceedance
G405	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	10	CI around mean	0.376	4.0	Standard	No Exceedance
G405	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	52	CB around T-S line	-0.00114	0.0120	Background	No Exceedance
G405	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	27	89	CI around median	0.01	0.04	Standard	No Exceedance
G405	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G405	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	39	CI around median	0.001	0.1	Standard	No Exceedance
G405	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	28	0	CI around mean	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance
G405	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around median	0.598	5	Standard	No Exceedance
G405	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	89	CI around median	0.001	0.05	Standard	No Exceedance
G405	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	442	400	Standard	Exceedance
G405	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G405	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CI around mean	1,540	1,200	Standard	Exceedance
G406	UA	E003	Antimony, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G406	UA	E003	Arsenic, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.010	Standard	No Exceedance
G406	UA	E003	Barium, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	0.013	2.0	Standard	No Exceedance
G406	UA	E003	Beryllium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G406	UA	E003	Boron, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	1.4	2	Standard	No Exceedance
G406	UA	E003	Cadmium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G406	UA	E003	Chloride, total	mg/L	10/14/20 - 11/20/23	13	15	CI around mean	3.13	200	Standard	No Exceedance
G406	UA	E003	Chromium, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.004	0.1	Standard	No Exceedance
G406	UA	E003	Cobalt, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G406	UA	E003	Fluoride, total	mg/L	10/14/20 - 11/20/23	13	15	CI around geomean	0.273	4.0	Standard	No Exceedance
G406	UA	E003	Lead, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.0120	Background	No Exceedance
G406	UA	E003	Lithium, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.02	0.04	Standard	No Exceedance
G406	UA	E003	Mercury, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G406	UA	E003	Molybdenum, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.1	Standard	No Exceedance
G406	UA	E003	pH (field)	SU	10/14/20 - 11/20/23	13	0	CI around mean	6.5/6.7	6.5/9.0	Standard/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 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	E003	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 11/20/23	13	0	CI around mean	0.264	5	Standard	No Exceedance
G406	UA	E003	Selenium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G406	UA	E003	Sulfate, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	450	400	Standard	Exceedance
G406	UA	E003	Thallium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G406	UA	E003	Total Dissolved Solids	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	1,010	1,200	Standard	No Exceedance
G407	UA	E003	Antimony, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G407	UA	E003	Arsenic, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.001	0.010	Standard	No Exceedance
G407	UA	E003	Barium, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	0.012	2.0	Standard	No Exceedance
G407	UA	E003	Beryllium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G407	UA	E003	Boron, total	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	0.0737	2	Standard	No Exceedance
G407	UA	E003	Cadmium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G407	UA	E003	Chloride, total	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	11.4	200	Standard	No Exceedance
G407	UA	E003	Chromium, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.004	0.1	Standard	No Exceedance
G407	UA	E003	Cobalt, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.002	0.006	Standard	No Exceedance
G407	UA	E003	Fluoride, total	mg/L	10/14/20 - 11/20/23	13	23	CI around geomean	0.264	4.0	Standard	No Exceedance
G407	UA	E003	Lead, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.0120	Background	No Exceedance
G407	UA	E003	Lithium, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	0.039	0.04	Standard	No Exceedance
G407	UA	E003	Mercury, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G407	UA	E003	Molybdenum, total	mg/L	10/14/20 - 11/20/23	13	15	CI around median	0.0013	0.1	Standard	No Exceedance
G407	UA	E003	pH (field)	SU	10/14/20 - 11/20/23	13	0	CI around mean	6.6/6.7	6.5/9.0	Standard/Standard	No Exceedance
G407	UA	E003	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 11/20/23	13	0	CI around mean	0.227	5	Standard	No Exceedance
G407	UA	E003	Selenium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G407	UA	E003	Sulfate, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	830	400	Standard	Exceedance
G407	UA	E003	Thallium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G407	UA	E003	Total Dissolved Solids	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	1,920	1,200	Standard	Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023

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

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

LCU = Lower Confining 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

-POND- ae
 COFFEEN POWER PLANT
 COFFEEN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 4, 2023**

**ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 4, 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	11/13/2023	6.49	591.12
G1003	Water Level	11/13/2023	Dry	
G270	Background	11/13/2023	10.90	614.96
G280	Background	11/13/2023	8.91	616.44
G281	Background	11/13/2023	8.59	617.77
G401	Compliance	11/13/2023	13.63	611.94
G402	Compliance	11/13/2023	11.71	601.66
G403	Compliance	11/13/2023	8.27	618.20
G404	Compliance	11/13/2023	6.48	609.19
G405	Compliance	11/13/2023	7.73	615.90
G406	Compliance	11/13/2023	13.83	611.53
G407	Compliance	11/13/2023	8.31	613.01
SG-02	Water Level	11/13/2023	7.36	598.51
SG-03	Water Level	11/13/2023	9.71	585.23
SG-04	Water Level	11/13/2023	Not Measured	

Notes:

Only wells with groundwater elevations measured are included.
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 4, 2023**

January 08, 2024

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-23Q4

WorkOrder: 23110002

Dear Eric Bauer:

TEKLAB, INC received 16 samples for COF_845_102 on 12/7/2023 12:55:00 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: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	34
Quality Control Results	35
Receiving Check List	210
Chain of Custody	Appended

Definitions

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

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: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

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-23Q4

Work Order: 23110002
Report Date: 08-Jan-24

Cooler Receipt Temp: 6.0 °C

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

G124, G125, G275, G275D, G277, G284, G312 and G317 could not be collected; the wells were dry.

G154, G1003, and R104 collection dates/times will be reported per the field file rather than the chain of custody. EAH 11/27/23

G211 required resampling for Cl, SO4, F-, and TDS due to lab error. EAH 12/6/23

G124, G125, and G275D were resampled per Ramboll's request to re-attempt dry wells. Date/times of collection per field file. EAH 12/7/23

Per Eric Bauer's request, only COF_845_102 data is included in this report. EAH 1/8/24

Locations

Collinsville

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Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

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Springfield

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Fax (217) 698-1005
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Chicago

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Downers Grove, IL 60515
Phone (630) 324-6855
Fax
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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: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	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 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-039
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G270

Collection Date: 11/17/2023 9:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		10.90	ft	1	11/17/2023 9:13	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	11/17/2023 9:13	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		98	mV	1	11/17/2023 9:13	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		689	µS/cm	1	11/17/2023 9:13	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.2	°C	1	11/17/2023 9:13	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.91	mg/L	1	11/17/2023 9:13	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		7.12		1	11/17/2023 9:13	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		325	mg/L	1	11/27/2023 10:19	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 10:19	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		460	mg/L	1	11/21/2023 9:32	R339670
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		50	mg/L	1	11/29/2023 0:51	R339808
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.38	mg/L	1	11/28/2023 10:38	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		15	mg/L	1	11/29/2023 0:51	R339847
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		58.1	mg/L	1	11/22/2023 15:09	214920
Magnesium	NELAP	0.006	0.050		24.1	mg/L	1	11/22/2023 15:09	214920
Potassium	NELAP	0.040	0.100		0.749	mg/L	1	11/22/2023 15:09	214920
Sodium	NELAP	0.018	0.050		67.1	mg/L	1	11/22/2023 15:09	214920
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/22/2023 0:46	214920
Arsenic	NELAP	0.4	1.0	J	0.5	µg/L	5	11/22/2023 0:46	214920
Barium	NELAP	0.7	1.0		64.9	µg/L	5	11/22/2023 0:46	214920
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/22/2023 0:46	214920
Boron	NELAP	12.5	20.0		< 20.0	µg/L	5	11/23/2023 1:16	214920
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/22/2023 0:46	214920
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/22/2023 0:46	214920
Cobalt	NELAP	0.1	1.0	J	0.2	µg/L	5	11/22/2023 0:46	214920
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/22/2023 0:46	214920
Lithium	*	1.4	3.0		3.1	µg/L	5	11/23/2023 1:16	214920
Molybdenum	NELAP	0.6	1.5	J	1.1	µg/L	5	11/22/2023 0:46	214920
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/22/2023 0:46	214920
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/22/2023 0:46	214920



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-039
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G270
Collection Date: 11/17/2023 9:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/30/2023 12:07	215313



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-050
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G280

Collection Date: 11/20/2023 9:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.91	ft	1	11/20/2023 9:50	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		7.9	NTU	1	11/20/2023 9:50	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		107	mV	1	11/20/2023 9:50	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		849	µS/cm	1	11/20/2023 9:50	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.7	°C	1	11/20/2023 9:50	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.79	mg/L	1	11/20/2023 9:50	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		7.39		1	11/20/2023 9:50	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		254	mg/L	1	11/27/2023 9:20	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 9:20	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		608	mg/L	1	11/21/2023 13:24	R339670
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		113	mg/L	10	11/29/2023 2:51	R339808
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.33	mg/L	1	11/28/2023 10:42	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		70	mg/L	2	11/29/2023 2:40	R339847
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		91.5	mg/L	1	11/30/2023 11:48	215174
Magnesium	NELAP	0.006	0.050		42.7	mg/L	1	11/30/2023 11:48	215174
Potassium	NELAP	0.040	0.100		0.644	mg/L	1	11/30/2023 11:48	215174
Sodium	NELAP	0.018	0.050		60.7	mg/L	1	11/30/2023 11:48	215174
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.5	1.0		< 1.0	µg/L	5	11/30/2023 12:49	215174
Arsenic	NELAP	0.4	1.0	J	0.5	µg/L	5	11/30/2023 1:05	215174
Barium	NELAP	0.7	1.0		61.1	µg/L	5	11/30/2023 1:05	215174
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 1:05	215174
Boron	NELAP	9.2	20	J	10	µg/L	5	11/30/2023 1:05	215174
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 1:05	215174
Chromium	NELAP	0.7	1.5	J	1.4	µg/L	5	11/30/2023 12:49	215174
Cobalt	NELAP	0.1	1.0	J	0.2	µg/L	5	11/30/2023 1:05	215174
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 12:49	215174
Lithium	*	1.4	3.0		5.4	µg/L	5	11/30/2023 1:05	215174
Molybdenum	NELAP	0.6	1.5		2.4	µg/L	5	11/30/2023 1:05	215174
Selenium	NELAP	0.6	1.0		1.3	µg/L	5	11/30/2023 1:05	215174
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 1:05	215174



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

Lab ID: 23110002-050

Client Sample ID: G280

Matrix: GROUNDWATER

Collection Date: 11/20/2023 9:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/29/2023 13:50	215196



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-051
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G281

Collection Date: 11/20/2023 8:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.59	ft	1	11/20/2023 8:56	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.4	NTU	1	11/20/2023 8:56	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		112	mV	1	11/20/2023 8:56	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1250	µS/cm	1	11/20/2023 8:56	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	11/20/2023 8:56	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.54	mg/L	1	11/20/2023 8:56	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.90		1	11/20/2023 8:56	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		358	mg/L	1	11/27/2023 9:26	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 9:26	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		958	mg/L	1	11/21/2023 13:25	R339670
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		293	mg/L	10	11/29/2023 3:23	R339808
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.36	mg/L	1	11/28/2023 10:48	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		74	mg/L	2	11/29/2023 3:17	R339847
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		152	mg/L	1	11/30/2023 11:49	215174
Magnesium	NELAP	0.006	0.050		68.5	mg/L	1	11/30/2023 11:49	215174
Potassium	NELAP	0.040	0.100		0.663	mg/L	1	11/30/2023 11:49	215174
Sodium	NELAP	0.018	0.050		93.3	mg/L	1	11/30/2023 11:49	215174
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.5	1.0		< 1.0	µg/L	5	11/30/2023 12:56	215174
Arsenic	NELAP	0.4	1.0	J	0.5	µg/L	5	11/30/2023 1:11	215174
Barium	NELAP	0.7	1.0		65.1	µg/L	5	11/30/2023 1:11	215174
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 1:11	215174
Boron	NELAP	9.2	20.0		< 20.0	µg/L	5	11/30/2023 1:11	215174
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 1:11	215174
Chromium	NELAP	0.7	1.5	J	1.0	µg/L	5	11/30/2023 12:56	215174
Cobalt	NELAP	0.1	1.0	J	0.6	µg/L	5	11/30/2023 1:11	215174
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 12:56	215174
Lithium	*	1.4	3.0		4.4	µg/L	5	11/30/2023 1:11	215174
Molybdenum	NELAP	0.6	1.5	J	0.8	µg/L	5	11/30/2023 1:11	215174
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 1:11	215174
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 1:11	215174



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110002
Report Date: 08-Jan-24

Lab ID: 23110002-051

Client Sample ID: G281

Matrix: GROUNDWATER

Collection Date: 11/20/2023 8:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/29/2023 12:22	215196



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-074
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G401

Collection Date: 11/21/2023 9:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		13.63	ft	1	11/21/2023 9:24	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		28	NTU	1	11/21/2023 9:24	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		15	mV	1	11/21/2023 9:24	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2830	µS/cm	1	11/21/2023 9:24	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		12.9	°C	1	11/21/2023 9:24	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.13	mg/L	1	11/21/2023 9:24	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		5.89		1	11/21/2023 9:24	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		99	mg/L	1	11/27/2023 9:34	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 9:34	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		2940	mg/L	2.5	11/22/2023 9:40	R339719
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		1980	mg/L	50	11/29/2023 17:49	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.20	mg/L	1	11/28/2023 10:50	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	3	mg/L	1	12/01/2023 12:04	R340022
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		553	mg/L	1	11/29/2023 17:53	215175
Magnesium	NELAP	0.006	0.050		142	mg/L	1	11/29/2023 17:53	215175
Potassium	NELAP	0.040	0.100		2.80	mg/L	1	11/29/2023 17:53	215175
Sodium	NELAP	0.018	0.050		64.0	mg/L	1	11/29/2023 17:53	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 1:52	215175
Arsenic	NELAP	0.4	1.0		1.6	µg/L	5	11/30/2023 4:12	215175
Barium	NELAP	0.7	1.0		13.2	µg/L	5	11/30/2023 4:12	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 4:12	215175
Boron	NELAP	9.2	20.0		5370	µg/L	5	11/30/2023 4:12	215175
Cadmium	NELAP	0.2	1.0	J	0.3	µg/L	5	11/30/2023 4:12	215175
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/30/2023 15:51	215175
Cobalt	NELAP	0.1	1.0		206	µg/L	5	11/30/2023 4:12	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 15:51	215175
Lithium	*	1.4	3.0		32.9	µg/L	5	11/30/2023 4:12	215175
Molybdenum	NELAP	0.8	1.5		< 1.5	µg/L	5	11/30/2023 4:12	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 4:12	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 4:12	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-074
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G401
Collection Date: 11/21/2023 9:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/30/2023 11:39	215244



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-075
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G402

Collection Date: 11/21/2023 8:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.71	ft	1	11/21/2023 8:37	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		21	NTU	1	11/21/2023 8:37	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		158	mV	1	11/21/2023 8:37	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1580	µS/cm	1	11/21/2023 8:37	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.0	°C	1	11/21/2023 8:37	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.40	mg/L	1	11/21/2023 8:37	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.66		1	11/21/2023 8:37	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		486	mg/L	1	11/27/2023 9:39	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 9:39	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		1360	mg/L	2.5	11/22/2023 9:50	R339719
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		599	mg/L	50	11/29/2023 17:58	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.34	mg/L	1	11/28/2023 10:52	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	2	mg/L	1	11/29/2023 17:53	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		213	mg/L	1	11/29/2023 17:55	215175
Magnesium	NELAP	0.006	0.050		130	mg/L	1	11/29/2023 17:55	215175
Potassium	NELAP	0.040	0.100		0.996	mg/L	1	11/29/2023 17:55	215175
Sodium	NELAP	0.018	0.050		43.6	mg/L	1	11/29/2023 17:55	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 1:56	215175
Arsenic	NELAP	0.4	1.0		2.4	µg/L	5	11/30/2023 4:18	215175
Barium	NELAP	0.7	1.0		28.1	µg/L	5	11/30/2023 4:18	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 4:18	215175
Boron	NELAP	9.2	20.0		8130	µg/L	5	11/30/2023 4:18	215175
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 4:18	215175
Chromium	NELAP	0.7	1.5		1.5	µg/L	5	11/30/2023 15:57	215175
Cobalt	NELAP	0.1	1.0		1.5	µg/L	5	11/30/2023 4:18	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 15:57	215175
Lithium	*	1.4	3.0		32.0	µg/L	5	11/30/2023 4:18	215175
Molybdenum	NELAP	0.8	1.5		2.4	µg/L	5	11/30/2023 4:18	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 4:18	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 4:18	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-075
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G402
Collection Date: 11/21/2023 8:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.08	0.20		< 0.20	µg/L	1	11/30/2023 10:15	215244



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-076
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G403

Collection Date: 11/20/2023 11:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.27	ft	1	11/20/2023 11:41	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.2	NTU	1	11/20/2023 11:41	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		112	mV	1	11/20/2023 11:41	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		685	µS/cm	1	11/20/2023 11:41	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.1	°C	1	11/20/2023 11:41	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.22	mg/L	1	11/20/2023 11:41	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.90		1	11/20/2023 11:41	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		323	mg/L	1	11/27/2023 9:47	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 9:47	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		508	mg/L	1	11/21/2023 14:37	R339670
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		74	mg/L	2	11/29/2023 18:05	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.34	mg/L	1	11/28/2023 10:53	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		5	mg/L	1	11/29/2023 18:01	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		85.9	mg/L	1	11/29/2023 17:56	215175
Magnesium	NELAP	0.006	0.050		40.2	mg/L	1	11/29/2023 17:56	215175
Potassium	NELAP	0.040	0.100		0.573	mg/L	1	11/29/2023 17:56	215175
Sodium	NELAP	0.018	0.050		26.3	mg/L	1	11/29/2023 17:56	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 2:00	215175
Arsenic	NELAP	0.4	1.0	J	0.4	µg/L	5	11/30/2023 4:24	215175
Barium	NELAP	0.7	1.0		139	µg/L	5	11/30/2023 4:24	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 4:24	215175
Boron	NELAP	9.2	20	J	20	µg/L	5	11/30/2023 4:24	215175
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 4:24	215175
Chromium	NELAP	0.7	1.5	J	0.8	µg/L	5	11/30/2023 16:03	215175
Cobalt	NELAP	0.1	1.0		2.6	µg/L	5	11/30/2023 4:24	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 16:03	215175
Lithium	*	1.4	3.0		4.5	µg/L	5	11/30/2023 4:24	215175
Molybdenum	NELAP	0.8	1.5		< 1.5	µg/L	5	11/30/2023 4:24	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 4:24	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 4:24	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-076
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G403
Collection Date: 11/20/2023 11:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/29/2023 11:05	215226



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-077
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G404

Collection Date: 11/21/2023 10:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.48	ft	1	11/21/2023 10:07	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.1	NTU	1	11/21/2023 10:07	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		85	mV	1	11/21/2023 10:07	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2030	µS/cm	1	11/21/2023 10:07	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.7	°C	1	11/21/2023 10:07	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.09	mg/L	1	11/21/2023 10:07	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.67		1	11/21/2023 10:07	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		326	mg/L	1	11/27/2023 9:54	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	11/27/2023 9:54	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1370	mg/L	1	11/22/2023 9:40	R339719
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		647	mg/L	50	11/29/2023 18:13	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.19	mg/L	1	11/28/2023 10:55	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		71	mg/L	2	11/29/2023 18:09	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		273	mg/L	1	11/29/2023 17:58	215175
Magnesium	NELAP	0.006	0.050		124	mg/L	1	11/29/2023 17:58	215175
Potassium	NELAP	0.040	0.100		0.594	mg/L	1	11/29/2023 17:58	215175
Sodium	NELAP	0.018	0.050		94.0	mg/L	1	11/29/2023 17:58	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 2:04	215175
Arsenic	NELAP	0.4	1.0	J	0.7	µg/L	5	11/30/2023 5:14	215175
Barium	NELAP	0.7	1.0		36.9	µg/L	5	11/30/2023 5:14	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:14	215175
Boron	NELAP	9.2	20.0		21200	µg/L	5	11/30/2023 5:14	215175
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:14	215175
Chromium	NELAP	0.7	1.5	J	0.8	µg/L	5	11/30/2023 17:09	215175
Cobalt	NELAP	0.1	1.0	J	0.6	µg/L	5	11/30/2023 5:14	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 17:09	215175
Lithium	*	1.4	3.0		11.6	µg/L	5	11/30/2023 5:14	215175
Molybdenum	NELAP	0.8	1.5	J	1.1	µg/L	5	11/30/2023 5:14	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 5:14	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 5:14	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-077
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G404
Collection Date: 11/21/2023 10:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/30/2023 10:17	215244



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-078
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G405

Collection Date: 11/21/2023 10:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.73	ft	1	11/21/2023 10:32	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.5	NTU	1	11/21/2023 10:32	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		76	mV	1	11/21/2023 10:32	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1840	µS/cm	1	11/21/2023 10:32	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.3	°C	1	11/21/2023 10:32	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.08	mg/L	1	11/21/2023 10:32	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.95		1	11/21/2023 10:32	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		286	mg/L	1	11/27/2023 10:01	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 10:01	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1610	mg/L	1	11/22/2023 9:41	R339719
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		897	mg/L	50	11/29/2023 18:21	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.47	mg/L	1	11/28/2023 10:56	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		17	mg/L	1	11/29/2023 18:17	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		248	mg/L	1	11/29/2023 18:00	215175
Magnesium	NELAP	0.006	0.050		107	mg/L	1	11/29/2023 18:00	215175
Potassium	NELAP	0.040	0.100		0.594	mg/L	1	11/29/2023 18:00	215175
Sodium	NELAP	0.018	0.050		103	mg/L	1	11/29/2023 18:00	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0	J	0.8	µg/L	5	12/02/2023 2:08	215175
Arsenic	NELAP	0.4	1.0		1.6	µg/L	5	11/30/2023 5:20	215175
Barium	NELAP	0.7	1.0		25.9	µg/L	5	11/30/2023 5:20	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:20	215175
Boron	NELAP	9.2	20.0		15400	µg/L	5	11/30/2023 5:20	215175
Cadmium	NELAP	0.2	1.0	J	0.2	µg/L	5	11/30/2023 5:20	215175
Chromium	NELAP	0.7	1.5	J	0.8	µg/L	5	11/30/2023 17:15	215175
Cobalt	NELAP	0.1	1.0		1.5	µg/L	5	11/30/2023 5:20	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 17:15	215175
Lithium	*	1.4	3.0		4.7	µg/L	5	11/30/2023 5:20	215175
Molybdenum	NELAP	0.8	1.5	J	1.5	µg/L	5	11/30/2023 5:20	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 5:20	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 5:20	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-078
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G405
Collection Date: 11/21/2023 10:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/30/2023 11:41	215244



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-079
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G406
Collection Date: 11/20/2023 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		13.83	ft	1	11/20/2023 13:20	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.0	NTU	1	11/20/2023 13:20	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		127	mV	1	11/20/2023 13:20	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1210	µS/cm	1	11/20/2023 13:20	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.7	°C	1	11/20/2023 13:20	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.81	mg/L	1	11/20/2023 13:20	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.59		1	11/20/2023 13:20	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		289	mg/L	1	11/27/2023 10:09	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		0	mg/L	1	11/27/2023 10:09	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1060	mg/L	1	11/21/2023 14:26	R339670
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		450	mg/L	10	11/29/2023 18:42	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.32	mg/L	1	11/28/2023 10:58	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		5	mg/L	1	11/29/2023 18:25	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		206	mg/L	1	11/29/2023 18:01	215175
Magnesium	NELAP	0.006	0.050		60.1	mg/L	1	11/29/2023 18:01	215175
Potassium	NELAP	0.040	0.100		0.255	mg/L	1	11/29/2023 18:01	215175
Sodium	NELAP	0.018	0.050		32.5	mg/L	1	11/29/2023 18:01	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 2:12	215175
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/30/2023 5:27	215175
Barium	NELAP	0.7	1.0		20.1	µg/L	5	11/30/2023 5:27	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:27	215175
Boron	NELAP	9.2	20.0		2290	µg/L	5	11/30/2023 5:27	215175
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:27	215175
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/30/2023 17:22	215175
Cobalt	NELAP	0.1	1.0	J	0.8	µg/L	5	11/30/2023 5:27	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 17:22	215175
Lithium	*	1.4	3.0		18.3	µg/L	5	11/30/2023 5:27	215175
Molybdenum	NELAP	0.8	1.5		< 1.5	µg/L	5	11/30/2023 5:27	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 5:27	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 5:27	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-079
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G406
Collection Date: 11/20/2023 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/29/2023 11:07	215226



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-080
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24

Client Sample ID: G407

Collection Date: 11/20/2023 12:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.31	ft	1	11/20/2023 12:18	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	11/20/2023 12:18	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		124	mV	1	11/20/2023 12:18	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2980	µS/cm	1	11/20/2023 12:18	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.2	°C	1	11/20/2023 12:18	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.56	mg/L	1	11/20/2023 12:18	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.57		1	11/20/2023 12:18	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		550	mg/L	1	11/22/2023 18:25	R339658
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/22/2023 18:25	R339658
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2010	mg/L	1	11/21/2023 14:37	R339670
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		1010	mg/L	50	11/29/2023 18:51	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.33	mg/L	1	11/28/2023 10:13	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		12	mg/L	1	11/29/2023 18:46	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		397	mg/L	1	11/29/2023 18:10	215175
Magnesium	NELAP	0.006	0.050		250	mg/L	1	11/29/2023 18:10	215175
Potassium	NELAP	0.040	0.100		4.14	mg/L	1	11/29/2023 18:10	215175
Sodium	NELAP	0.018	0.050		106	mg/L	1	11/29/2023 18:10	215175
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 2:16	215175
Arsenic	NELAP	0.4	1.0	J	0.6	µg/L	5	11/30/2023 5:33	215175
Barium	NELAP	0.7	1.0		19.3	µg/L	5	11/30/2023 5:33	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:33	215175
Boron	NELAP	9.2	20.0		139	µg/L	5	11/30/2023 5:33	215175
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:33	215175
Chromium	NELAP	0.7	1.5	J	1.0	µg/L	5	11/30/2023 17:28	215175
Cobalt	NELAP	0.1	1.0		2.0	µg/L	5	11/30/2023 5:33	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 17:28	215175
Lithium	*	1.4	3.0		71.8	µg/L	5	11/30/2023 5:33	215175
Molybdenum	NELAP	0.8	1.5		2.2	µg/L	5	11/30/2023 5:33	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 5:33	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 5:33	215175

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-080
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G407
Collection Date: 11/20/2023 12:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/29/2023 10:40	215226



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-083
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: G1001
Collection Date: 11/14/2023 11:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.49	ft	1	11/14/2023 11:36	R339628
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	11/14/2023 11:36	R339628
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		0	mV	1	11/14/2023 11:36	R339628
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1220	µS/cm	1	11/14/2023 11:36	R339628
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.7	°C	1	11/14/2023 11:36	R339628
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.59	mg/L	1	11/14/2023 11:36	R339628
SW-846 9040B FIELD									
pH	*	0	1.00		6.97		1	11/14/2023 11:36	R339628
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		605	mg/L	1	11/20/2023 11:18	R339514
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/20/2023 11:18	R339514
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		900	mg/L	2.5	11/17/2023 9:54	R339458
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		291	mg/L	10	11/17/2023 2:31	R339393
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.32	mg/L	1	11/28/2023 10:14	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		16	mg/L	1	11/17/2023 2:26	R339442
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		131	mg/L	1	11/22/2023 15:14	214920
Magnesium	NELAP	0.006	0.050		61.0	mg/L	1	11/22/2023 15:14	214920
Potassium	NELAP	0.040	0.100		2.24	mg/L	1	11/22/2023 15:14	214920
Sodium	NELAP	0.018	0.050		84.6	mg/L	1	11/22/2023 15:14	214920
SW-846 3005A, 6020A, METALS BY ICMS (TOTAL)									
Antimony	NELAP	0.4	1.0		4.9	µg/L	5	11/22/2023 2:16	214920
Arsenic	NELAP	0.4	1.0		1.5	µg/L	5	11/22/2023 2:16	214920
Barium	NELAP	0.7	1.0		91.7	µg/L	5	11/22/2023 2:16	214920
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/22/2023 2:16	214920
Boron	NELAP	12.5	20.0		1100	µg/L	5	11/23/2023 1:46	214920
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/22/2023 2:16	214920
Chromium	NELAP	0.7	1.5		2.8	µg/L	5	11/22/2023 2:16	214920
Cobalt	NELAP	0.1	1.0		1.9	µg/L	5	11/22/2023 2:16	214920
Lead	NELAP	0.6	1.0		1.1	µg/L	5	11/22/2023 2:16	214920
Lithium	*	1.4	3.0		10.5	µg/L	5	11/23/2023 1:46	214920
Molybdenum	NELAP	0.6	1.5		8.4	µg/L	5	11/22/2023 2:16	214920
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/22/2023 2:16	214920
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/22/2023 2:16	214920



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

Lab ID: 23110002-083

Client Sample ID: G1001

Matrix: GROUNDWATER

Collection Date: 11/14/2023 11:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/22/2023 14:20	214958



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

Lab ID: 23110002-084

Client Sample ID: G1003

Matrix: GROUNDWATER

Collection Date: 11/13/2023 10:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		Dry	ft	1	11/13/2023 10:20	R339628



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-093
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: YSG02
Collection Date: 11/13/2023 14:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.36	ft	1	11/13/2023 14:03	R339628



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-094
Matrix: GROUNDWATER

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: YSG03
Collection Date: 11/13/2023 13:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.71	ft	1	11/13/2023 13:53	R339628



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110002
Report Date: 08-Jan-24

Lab ID: 23110002-095

Client Sample ID: YSG04

Matrix: GROUNDWATER

Collection Date: 11/13/2023 14:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.32	ft	1	11/13/2023 14:21	R339628



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110002-102
Matrix: AQUEOUS

Work Order: 23110002
Report Date: 08-Jan-24
Client Sample ID: Field Blank
Collection Date: 11/21/2023 10:36

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	11/27/2023 10:15	R339712
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/27/2023 10:15	R339712
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	11/22/2023 9:41	R339719
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		< 10	mg/L	1	11/29/2023 20:00	R339891
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	11/28/2023 11:00	R339781
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		< 4	mg/L	1	11/29/2023 20:00	R339907
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		< 0.100	mg/L	1	11/29/2023 18:20	215175
Magnesium	NELAP	0.006	0.050	J	0.016	mg/L	1	11/29/2023 18:20	215175
Potassium	NELAP	0.040	0.100		< 0.100	mg/L	1	11/29/2023 18:20	215175
Sodium	NELAP	0.018	0.050		< 0.050	mg/L	1	11/29/2023 18:20	215175
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	12/02/2023 3:10	215175
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/30/2023 5:51	215175
Barium	NELAP	0.7	1.0		< 1.0	µg/L	5	11/30/2023 5:51	215175
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:51	215175
Boron	NELAP	9.2	20.0		< 20.0	µg/L	5	11/30/2023 5:51	215175
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/30/2023 5:51	215175
Chromium	NELAP	0.7	1.5	J	0.7	µg/L	5	11/30/2023 17:46	215175
Cobalt	NELAP	0.1	1.0		< 1.0	µg/L	5	11/30/2023 5:51	215175
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 17:46	215175
Lithium	*	1.4	3.0		< 3.0	µg/L	5	11/30/2023 5:51	215175
Molybdenum	NELAP	0.8	1.5		< 1.5	µg/L	5	11/30/2023 5:51	215175
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/30/2023 5:51	215175
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/30/2023 5:51	215175
<i>LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/30/2023 11:46	215244



Sample Summary

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110002
Report Date: 08-Jan-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23110002-039	G270	Groundwater	6	11/17/2023 9:13
23110002-050	G280	Groundwater	6	11/20/2023 9:50
23110002-051	G281	Groundwater	4	11/20/2023 8:56
23110002-074	G401	Groundwater	4	11/21/2023 9:24
23110002-075	G402	Groundwater	4	11/21/2023 8:37
23110002-076	G403	Groundwater	4	11/20/2023 11:41
23110002-077	G404	Groundwater	4	11/21/2023 10:07
23110002-078	G405	Groundwater	4	11/21/2023 10:32
23110002-079	G406	Groundwater	4	11/20/2023 13:20
23110002-080	G407	Groundwater	4	11/20/2023 12:18
23110002-083	G1001	Groundwater	2	11/14/2023 11:36
23110002-084	G1003	Groundwater	1	11/13/2023 10:20
23110002-093	YSG02	Groundwater	1	11/13/2023 14:03
23110002-094	YSG03	Groundwater	1	11/13/2023 13:53
23110002-095	YSG04	Groundwater	1	11/13/2023 14:21
23110002-102	Field Blank	Aqueous	15	11/21/2023 10:36



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 2510 B FIELD

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.8	90	110	11/14/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-10											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	11/21/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-11											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.4	90	110	12/06/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-12											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1430	1412	0	101.2	90	110	12/07/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.3	90	110	11/15/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1430	1412	0	101.4	90	110	11/16/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	11/16/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-5											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1430	1412	0	101.6	90	110	11/17/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 2510 B FIELD

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-6											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	11/17/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-7											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1430	1412	0	101.1	90	110	11/20/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-8											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	11/20/2023	

Batch R339628		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R339628-9											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1440	1412	0	102.2	90	110	11/21/2023	

SW-846 9040B FIELD

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4	11/14/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-10											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		6.98	7.000	0	99.7	98.57	101.4	11/21/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-11											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	12/06/2023	



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SW-846 9040B FIELD

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-12											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	12/07/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.04	7.000	0	100.6	98.57	101.4	11/15/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4	11/16/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.06	7.000	0	100.9	98.57	101.4	11/16/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-5											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	11/17/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-6											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4	11/17/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-7											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	11/20/2023	

Batch R339628		SampType: LCS		Units							
SampID: LCS-R339628-8											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.06	7.000	0	100.9	98.57	101.4	11/20/2023	



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SW-846 9040B FIELD

Batch R339628		SampType: LCS		Units							Date
SampID: LCS-R339628-9											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
pH	*	1.00		7.03	7.000	0	100.4	98.57	101.4		11/21/2023

EPA 1664A

Batch R339481		SampType: MBLK		Units mg/L							Date
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Hexane Extractable Material		5		< 5	4.400	0	0	-100	100		11/17/2023

Batch R339481		SampType: LCS		Units mg/L							Date
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Hexane Extractable Material		5		38	40.00	0	95.8	78	114		11/17/2023

Batch R339481		SampType: MS		Units mg/L							Date
SampID: 23110742-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Hexane Extractable Material		5	S	32	42.28	0	75.5	78	114		11/17/2023

Batch R339734		SampType: MBLK		Units mg/L							Date
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Hexane Extractable Material		5		< 5	4.400	0	0	-100	100		11/22/2023

Batch R339734		SampType: LCS		Units mg/L							Date
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Hexane Extractable Material		5		45	40.00	0	111.5	78	114		11/22/2023

Batch R339734		SampType: MS		Units mg/L							Date
SampID: 23111204-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Hexane Extractable Material		6		42	44.72	6.013	80.8	78	114		11/22/2023



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EPA 1664A

Batch R339734		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111728-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Hexane Extractable Material		4		36	32.88	5.193	92.5	78	114	11/22/2023	

EPA 600 350.1 (TOTAL)

Batch R339404		SampType: MBLK		Units mg/L							Date Analyzed
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		< 0.10	0.0270	0	0	-100	100	11/17/2023	

Batch R339404		SampType: LCS		Units mg/L							Date Analyzed
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		1.02	1.000	0	101.5	90	110	11/17/2023	

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111161-002GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		3.49	2.000	1.583	95.6	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111161-002GMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		3.50	2.000	1.583	95.6	3.494	0.06	11/17/2023		

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111196-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.03300	93.5	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111196-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.91	2.000	0.03300	94.0	1.903	0.52	11/17/2023		



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EPA 600 350.1 (TOTAL)

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111243-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.03200	93.2	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111243-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.87	2.000	0.03200	92.0	1.895	1.22	11/17/2023		

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111270-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0	94.9	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111270-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0	93.8	1.898	1.11	11/17/2023		

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111272-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.89	2.000	0	94.5	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111272-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.85	2.000	0	92.6	1.890	2.09	11/17/2023		

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111317-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		2.89	2.000	1.004	94.4	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111317-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		2.88	2.000	1.004	93.8	2.892	0.42	11/17/2023		



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Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111323-004DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0.03200	92.5	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111323-004DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.86	2.000	0.03200	91.6	1.882	0.96	11/17/2023		

Batch R339484		SampType: MBLK		Units mg/L							Date Analyzed
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		< 0.10	0.0270	0	0	-100	100	11/20/2023	

Batch R339484		SampType: LCS		Units mg/L							Date Analyzed
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		1.04	1.000	0	103.9	90	110	11/20/2023	

Batch R339484		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111236-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		2.00		54.7	40.00	16.68	95.0	90	110	11/20/2023	

Batch R339484		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111236-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		2.00		54.8	40.00	16.68	95.4	54.68	0.32	11/20/2023		

Batch R339484		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111416-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.91	2.000	0.04200	93.6	90	110	11/20/2023	

Batch R339484		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111416-004AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.93	2.000	0.04200	94.4	1.914	0.78	11/20/2023		



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Batch R339484		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111416-008AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.03400	93.6	90	110	11/20/2023	

Batch R339484		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111416-008AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.03400	93.2	1.905	0.32	11/20/2023		

Batch R339484		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111434-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0	94.0	90	110	11/20/2023	

Batch R339484		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111434-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0	94.0	1.881	0.05	11/20/2023		

Batch R339623		SampType: MBLK		Units mg/L							Date Analyzed
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		< 0.10	0.0270	0	0	-100	100	11/22/2023	

Batch R339623		SampType: LCS		Units mg/L							Date Analyzed
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		1.00	1.000	0	100.3	90	110	11/22/2023	

Batch R339623		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111452-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.20	S	3.77	4.000	0.2310	88.5	90	110	11/22/2023	

Batch R339623		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111452-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.20	S	3.82	4.000	0.2310	89.8	3.772	1.37	11/22/2023		



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Batch R339623		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111606-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	1.84	2.000	0.06300	88.6	90	110	11/22/2023	

Batch R339623		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111606-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0.06300	90.6	1.835	2.16	11/22/2023		

Batch R339623		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111613-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		2.16	2.000	0.2890	93.4	90	110	11/22/2023	

Batch R339623		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111613-001DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		2.18	2.000	0.2890	94.7	2.157	1.20	11/22/2023		

Batch R339623		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111641-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.85	2.000	0.03100	90.8	90	110	11/22/2023	

Batch R339623		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111641-007BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.83	2.000	0.03100	90.1	1.847	0.76	11/22/2023		

Batch R339623		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111700-004DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.80	2.000	0	90.0	90	110	11/22/2023	

Batch R339623		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111700-004DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.80	2.000	0	90.0	1.801	0.06	11/22/2023		



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Batch R339623		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111714-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0.04900	91.4	90	110	11/22/2023	

Batch R339623		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111714-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.91	2.000	0.04900	92.8	1.878	1.48	11/22/2023		

Batch R340305		SampType: MBLK		Units mg/L							Date Analyzed
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		< 0.10	0.0270	0	0	-100	100	12/08/2023	

Batch R340305		SampType: LCS		Units mg/L							Date Analyzed
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		1.01	1.000	0	101.0	90	110	12/08/2023	

Batch R340305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120341-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.92	2.000	0.03700	94.2	90	110	12/08/2023	

Batch R340305		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120341-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0.03700	91.9	1.920	2.37	12/08/2023		

Batch R340305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120364-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.98	2.000	0.07400	95.0	90	110	12/08/2023	

Batch R340305		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120364-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.93	2.000	0.07400	92.9	1.975	2.20	12/08/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

EPA 600 350.1 (TOTAL)

Batch R340305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120434-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		2.88	2.000	0.9010	99.1	90	110	12/08/2023	

Batch R340305		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120434-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		2.84	2.000	0.9010	96.8	2.883	1.61	12/08/2023		

Batch R340305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120474-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.92	2.000	0.03300	94.2	90	110	12/08/2023	

Batch R340305		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120474-003AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0.03300	92.2	1.916	2.06	12/08/2023		

Batch R340305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120520-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.98	2.000	0.08700	94.4	90	110	12/08/2023	

Batch R340305		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120520-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.97	2.000	0.08700	94.0	1.975	0.46	12/08/2023		

Batch R340305		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120576-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		3.09	2.000	1.199	94.7	90	110	12/08/2023	

Batch R340305		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120576-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		3.10	2.000	1.199	95.3	3.093	0.39	12/08/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

EPA 600 365.4 (TOTAL)

Batch 214836		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231116 TP1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		< 0.100	0.0660	0	0	-100	100	11/21/2023	

Batch 214836		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231116 TP1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		1.08	1.000	0	108.5	85	115	11/21/2023	

Batch 214836		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111282-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.500		5.92	5.000	0.8000	102.3	85	115	11/21/2023	

Batch 214836		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111282-001EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phosphorus, Total (as P)		0.500		6.04	5.000	0.8000	104.9	5.915	2.17	11/21/2023		

Batch 215040		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231121 TP1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		< 0.100	0.0660	0	0	-100	100	11/28/2023	

Batch 215040		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231121 TP1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		0.967	1.000	0	96.7	85	115	11/28/2023	

Batch 215040		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111608-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		2.50		41.7	25.00	19.30	89.7	85	115	11/28/2023	

Batch 215040		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111608-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phosphorus, Total (as P)		2.50		41.7	25.00	19.30	89.6	41.72	0.06	11/28/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

EPA 600 365.4 (TOTAL)

Batch 215040		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111641-008AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		1.63	1.000	0.6250	100.2	85	115	11/28/2023	

Batch 215040		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111641-008AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phosphorus, Total (as P)		0.100		1.61	1.000	0.6250	98.6	1.627	0.99	11/28/2023		

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R339458		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/17/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/17/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/17/2023	

Batch R339458		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		948	1000	0	94.8	90	110	11/17/2023	
Total Dissolved Solids		20		972	1000	0	97.2	90	110	11/17/2023	
Total Dissolved Solids		20		966	1000	0	96.6	90	110	11/17/2023	

Batch R339458		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-091ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		655				705.0	7.35	11/17/2023		

Batch R339458		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-103ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		568				592.0	4.14	11/17/2023		

Batch R339458		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111131-007ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		675				650.0	3.77	11/17/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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Batch R339670 SampType: MBLK Units mg/L

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/21/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/21/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/21/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/21/2023

Batch R339670 SampType: LCS Units mg/L

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		1020	1000	0	102.0	90	110	11/21/2023
Total Dissolved Solids		20		992	1000	0	99.2	90	110	11/21/2023
Total Dissolved Solids		20		1010	1000	0	101.2	90	110	11/21/2023
Total Dissolved Solids		20		1000	1000	0	100.2	90	110	11/21/2023

Batch R339670 SampType: DUP Units mg/L

SampID: 23111155-014ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		< 20				0	0.00	11/21/2023

Batch R339670 SampType: DUP Units mg/L

SampID: 23111400-001ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		1820				1854	1.63	11/21/2023

Batch R339670 SampType: DUP Units mg/L

SampID: 23111475-015ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		< 20				0	0.00	11/21/2023

Batch R339670 SampType: DUP Units mg/L

SampID: 23111606-001ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		655				685.0	4.48	11/21/2023



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Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R339719		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/22/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/22/2023	

Batch R339719		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		970	1000	0	97.0	90	110	11/22/2023	
Total Dissolved Solids		20		960	1000	0	96.0	90	110	11/22/2023	

Batch R339719		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-078ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		1630				1608	1.11	11/22/2023		

Batch R339719		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110663-008ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20	H	608				604.0	0.66	11/22/2023		

Batch R339719		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111356-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		676				665.0	1.64	11/22/2023		

Batch R339719		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111785-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		378				396.0	4.65	11/22/2023		

Batch R340221		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/06/2023	
Total Dissolved Solids		20	J	16	16.00	0	100.0	-100	100	12/06/2023	



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Client Project: COF-23Q4

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Batch R340221		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		948	1000	0	94.8	90	110	12/06/2023	
Total Dissolved Solids		20		918	1000	0	91.8	90	110	12/06/2023	

Batch R340221		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23112017-002ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		1660				1630	1.94	12/06/2023		

Batch R340221		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120399-005BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		620				570.0	8.40	12/06/2023		

Batch R340363		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/08/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/08/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/08/2023	

Batch R340363		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		922	1000	0	92.2	90	110	12/08/2023	
Total Dissolved Solids		20		946	1000	0	94.6	90	110	12/08/2023	
Total Dissolved Solids		20		946	1000	0	94.6	90	110	12/08/2023	

Batch R340363		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120502-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		1000		24300				24200	0.41	12/08/2023		

Batch R340363		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120623-002ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		398				396.0	0.50	12/08/2023		



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Batch R340363		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23120635-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		200		520				500.0	3.92	12/08/2023	

Batch R340363		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23120637-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		200		18700				18320	1.95	12/08/2023	

Batch R340683		SampType: MBLK		Units mg/L						Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/15/2023
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/15/2023

Batch R340683		SampType: LCS		Units mg/L						Date Analyzed
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		934	1000	0	93.4	90	110	12/15/2023
Total Dissolved Solids		20		940	1000	0	94.0	90	110	12/15/2023

Batch R340683		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-062ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		50	H	880				915.0	3.90	12/15/2023	

Batch R340683		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23121193-002BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		544				494.0	9.63	12/15/2023	

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Batch R339483		SampType: MBLK		Units mg/L						Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/17/2023
Total Suspended Solids	*	0.5		< 0.5	0.3000	0	0	-100	100	11/17/2023
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/17/2023



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Batch R339483		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Suspended Solids		6		106	100.0	0	106.0	85	115	11/17/2023	
Total Suspended Solids		6		106	100.0	0	106.0	85	115	11/17/2023	
Total Suspended Solids		6		102	100.0	0	102.0	85	115	11/17/2023	

Batch R339483		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111220-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Suspended Solids		6		15				15.00	0.00	11/17/2023		

Batch R339483		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111226-002ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Suspended Solids	*	0.8		6.2				6.400	2.66	11/17/2023		

Batch R339483		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111227-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Suspended Solids		6		< 6				0	0.00	11/17/2023		

Batch R339483		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111271-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Suspended Solids		6		< 6				0	0.00	11/17/2023		

Batch R339483		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111297-002ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Suspended Solids		6		10				10.00	0.00	11/17/2023		

Batch R339483		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111305-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Suspended Solids		6		19				19.00	0.00	11/17/2023		



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 2540 D 1997, 2011

Batch R339698		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/22/2023	
Total Suspended Solids	*	0.5		< 0.5	0.3000	0	0	-100	100	11/22/2023	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/22/2023	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/22/2023	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/22/2023	

Batch R339698		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Suspended Solids		6		105	100.0	0	105.0	85	115	11/22/2023	
Total Suspended Solids		6		101	100.0	0	101.0	85	115	11/22/2023	
Total Suspended Solids		6		99	100.0	0	99.0	85	115	11/22/2023	
Total Suspended Solids		6		104	100.0	0	104.0	85	115	11/22/2023	
Total Suspended Solids		6		105	100.0	0	105.0	85	115	11/22/2023	

Batch R339698		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23110002-102EDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Suspended Solids		6		< 6				0	0.00	11/22/2023		

Batch R339698		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111607-001BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Suspended Solids		6		< 6				0	0.00	11/22/2023		

Batch R339698		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111637-002ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Suspended Solids		6	J	5				5.000	0.00	11/22/2023		

Batch R339698		SampType: DUP		Units mg/L							RPD Limit 5	Date Analyzed
SampID: 23111656-002ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Suspended Solids		6		< 6				0	0.00	11/22/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 2540 D 1997, 2011

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								6			< 6				0	0.00	11/22/2023

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								400		R	2470				2714	9.56	11/22/2023

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								6		J	4				4.000	0.00	11/22/2023

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								6			< 6				0	0.00	11/22/2023

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								6		JH	4				4.000	0.00	11/22/2023

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								*	0.8		3.8				3.600	4.67	11/22/2023

Batch	R339698	SampType:	DUP	Units	mg/L	RPD Limit	5										
Analyses								Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids								6			< 6				0	0.00	11/22/2023



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.86	2.000	0	92.8	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-001EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.86	2.000	0	93.2	1.857	0.32	11/17/2023		

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-002GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.86	2.000	0	92.9	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-002GMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.10		1.87	2.000	0	93.4	1.858	0.48	11/17/2023		

Batch R339404		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111131-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.20		4.82	4.000	1.089	93.4	90	110	11/17/2023	

Batch R339404		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111131-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)		0.20		4.88	4.000	1.089	94.8	4.824	1.22	11/17/2023		

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R339375		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-011BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.4	85	115	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R339375		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23110002-011BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.4	0.5070	0.00	11/16/2023	

Batch R339605		SampType: MS		Units mg/L				RPD Limit 10			
SampID: 23110002-020BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.6	85	115	11/21/2023	

Batch R339605		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23110002-020BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.0	0.5230	1.33	11/21/2023	

Batch R340237		SampType: MS		Units mg/L				RPD Limit 10			
SampID: 23110002-016BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	103.4	85	115	12/07/2023	

Batch R340237		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23110002-016BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.8	0.5170	0.58	12/07/2023	

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R339304		SampType: MBLK		Units mg/L				RPD Limit 10			
SampID: 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	11/15/2023	

Batch R339304		SampType: LCS		Units mg/L				RPD Limit 10			
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	99.2	90	110	11/15/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R339304		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111147-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.2	85	115	11/15/2023	

Batch R339304		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111147-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.46	0.5000	0	92.8	0.5110	9.64	11/15/2023		

Batch R339304		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111182-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.6	85	115	11/15/2023	

Batch R339304		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111182-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.0	0.5280	0.38	11/15/2023		

Batch R339304		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111182-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.2	85	115	11/15/2023	

Batch R339304		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111182-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.8	0.5010	0.60	11/15/2023		

Batch R339304		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111182-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.8	85	115	11/15/2023	

Batch R339304		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111182-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	103.8	0.5140	0.97	11/15/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R339304		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111182-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.2	85	115	11/15/2023	

Batch R339304		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111182-005BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.6	0.5260	0.38	11/15/2023		

Batch R339304		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111199-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.0	85	115	11/15/2023	

Batch R339304		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111199-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.8	0.5100	1.18	11/15/2023		

Batch R339375		SampType: MBLK		Units mg/L							Date Analyzed
SampID: 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	11/16/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/16/2023	

Batch R339375		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	98.5	90	110	11/16/2023	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	98.5	90	110	11/16/2023	

Batch R339375		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111216-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.6	85	115	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch	R339375	SampType:	MSD	Units mg/L			RPD Limit 10				
SampID: 23111216-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.0	0.5030	0.60	11/16/2023	

Batch	R339375	SampType:	MS	Units mg/L			RPD Limit 10				
SampID: 23111249-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.2	85	115	11/16/2023	

Batch	R339375	SampType:	MSD	Units mg/L			RPD Limit 10				
SampID: 23111249-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.4	0.5260	0.19	11/16/2023	

Batch	R339375	SampType:	MS	Units mg/L			RPD Limit 10				
SampID: 23111251-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.2	85	115	11/16/2023	

Batch	R339375	SampType:	MSD	Units mg/L			RPD Limit 10				
SampID: 23111251-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.8	0.5260	9.35	11/16/2023	

Batch	R339375	SampType:	MS	Units mg/L			RPD Limit 10				
SampID: 23111255-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.4	85	115	11/16/2023	

Batch	R339375	SampType:	MSD	Units mg/L			RPD Limit 10				
SampID: 23111255-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.4	0.5220	0.95	11/16/2023	

Batch	R339375	SampType:	MS	Units mg/L			RPD Limit 10				
SampID: 23111356-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.4	85	115	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch	R339375	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111356-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.0	0.5270	0.57	11/16/2023	

Batch	R339448	SampType:	MBLK	Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/17/2023	

Batch	R339448	SampType:	LCS	Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	100.2	90	110	11/17/2023	

Batch	R339448	SampType:	MS	Units mg/L							Date Analyzed
SampID: 23111364-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.2	85	115	11/17/2023	

Batch	R339448	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111364-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.4	0.4960	0.81	11/17/2023	

Batch	R339448	SampType:	MS	Units mg/L							Date Analyzed
SampID: 23111364-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.6	85	115	11/17/2023	

Batch	R339448	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111364-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.6	0.5080	0.00	11/17/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R339605		SampType: MBLK		Units mg/L							Date Analyzed
SampID: 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	11/21/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/21/2023	

Batch R339605		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	100.2	90	110	11/21/2023	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	100.2	90	110	11/21/2023	

Batch R339605		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111625-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.0	85	115	11/21/2023	

Batch R339605		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111625-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.2	0.4900	0.20	11/21/2023		

Batch R339605		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111660-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.8	85	115	11/21/2023	

Batch R339605		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111660-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.6	0.5140	1.74	11/21/2023		

Batch R340237		SampType: MBLK		Units mg/L							Date Analyzed
SampID: 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	12/07/2023	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	12/07/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R340237		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	100.2	90	110	12/07/2023	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	100.2	90	110	12/07/2023	

Batch R340237		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120530-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.59	0.5000	0.08400	100.8	85	115	12/07/2023	

Batch R340237		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120530-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.59	0.5000	0.08400	101.0	0.5880	0.17	12/07/2023		

Batch R340237		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120623-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	103.8	85	115	12/07/2023	

Batch R340237		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120623-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.8	0.5190	2.93	12/07/2023		

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.299	0.2500	0.05700	96.8	85	115	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-004BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.311	0.2500	0.05700	101.6	0.2990	3.93	11/15/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-009BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.308	0.2500	0.05700	100.4	85	115	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-009BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.310	0.2500	0.05700	101.2	0.3080	0.65	11/15/2023		

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110394-008BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.235	0.2500	0	94.0	85	115	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110394-008BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.230	0.2500	0	92.0	0.2350	2.15	11/15/2023		

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111131-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.213	0.2500	0	85.2	85	115	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111131-007AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050	R	0.240	0.2500	0	96.0	0.2130	11.92	11/15/2023		

Batch R339385		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-014BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.100		1.16	0.5000	0.6630	99.2	85	115	11/16/2023	

Batch R339385		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-014BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.100	S	1.09	0.5000	0.6630	84.6	1.159	6.50	11/16/2023		



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Work Order: 23110002

Client Project: COF-23Q4

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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R339385		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-096BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.100		1.87	0.5000	1.375	99.6	85	115	11/16/2023	

Batch R339385		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-096BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.100		1.90	0.5000	1.375	105.8	1.873	1.64	11/16/2023		

Batch R339482		SampType: DUP		Units mg/L							RPD Limit 0	Date Analyzed
SampID: 23110323-010BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate (as N)		0.250	H	< 0.250				0	0.00	11/17/2023		
Nitrogen, Nitrate-Nitrite (as N)		0.250	H	1.82				1.824	0.49	11/17/2023		

Batch R340414		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120718-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00	EH	20.3	5.000	15.44	97.1	90	110	12/11/2023	

Batch R340414		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120718-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		1.00	EH	20.6	5.000	15.44	103.3	20.29	1.51	12/11/2023		

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R339342		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/15/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/15/2023	

Batch R339342		SampType: LCS		Units mg/L							Date Analyzed
SampID: 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		0.508	0.5000	0	101.6	90	110	11/15/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R339342		SampType: MS		Units mg/L							Date
SampID: 23110751-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100	E	2.30	0.5000	1.772	105.0	90	110		11/15/2023

Batch R339342		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23110751-001EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100	E	2.30	0.5000	1.772	106.2	2.297	0.26		11/15/2023

Batch R339342		SampType: MS		Units mg/Kg-dry							Date
SampID: 23111071-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		1.02		7.49	5.086	2.482	98.4	85	115		11/15/2023

Batch R339342		SampType: MSD		Units mg/Kg-dry		RPD Limit 10					Date
SampID: 23111071-004AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		1.02		7.65	5.086	2.482	101.6	7.486	2.15		11/15/2023

Batch R339342		SampType: MS		Units mg/L							Date
SampID: 23111083-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		2.50		34.6	12.50	21.49	104.9	90	110		11/15/2023

Batch R339342		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23111083-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		2.50		34.9	12.50	21.49	106.9	34.60	0.74		11/15/2023

Batch R339342		SampType: MS		Units mg/L							Date
SampID: 23111147-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.265	0.2500	0.02400	96.4	85	115		11/15/2023

Batch R339342		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23111147-006BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.265	0.2500	0.02400	96.4	0.2650	0.00		11/15/2023



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111147-012BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.236	0.2500	0	94.4	85	115	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111147-012BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.238	0.2500	0	95.2	0.2360	0.84	11/15/2023		

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111182-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.241	0.2500	0.01100	92.0	90	110	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111182-005BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.230	0.2500	0.01100	87.6	0.2410	4.67	11/15/2023		

Batch R339342		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111182-013BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	H	0.235	0.2500	0	94.0	90	110	11/15/2023	

Batch R339342		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111182-013BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050	H	0.236	0.2500	0	94.4	0.2350	0.42	11/15/2023		

Batch R339385		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/16/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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Batch R339385		SampType: LCS		Units mg/L							Date Analyzed
SampID: 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		0.528	0.5000	0	105.6	90	110	11/16/2023	

Batch R339385		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111153-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		2.84	2.500	0.1460	107.8	90	110	11/16/2023	

Batch R339385		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111153-001EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.500		2.67	2.500	0.1460	100.8	2.840	6.28	11/16/2023		

Batch R339385		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111220-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.748	0.2500	0.4880	104.0	90	110	11/16/2023	

Batch R339385		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111220-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.746	0.2500	0.4880	103.2	0.7480	0.27	11/16/2023		

Batch R339385		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111249-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.206	0.2500	0	82.4	85	115	11/16/2023	

Batch R339385		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111249-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050	R	0.244	0.2500	0	97.6	0.2060	16.89	11/16/2023		

Batch R339385		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111251-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.229	0.2500	0	91.6	85	115	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R339385		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111251-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.243	0.2500	0	97.2	0.2290	5.93	11/16/2023	

Batch R339385		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 23111255-005BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.264	0.2500	0	105.6	85	115	11/16/2023

Batch R339385		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111255-005BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.267	0.2500	0	106.8	0.2640	1.13	11/16/2023	

Batch R339482		SampType: MBLK		Units mg/L				RPD Limit 10		Date Analyzed
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/17/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/17/2023

Batch R339482		SampType: LCS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 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		0.526	0.5000	0	105.2	90	110	11/17/2023

Batch R339482		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 23111212-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		1.00		9.34	5.000	4.499	96.8	90	110	11/17/2023

Batch R339482		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111212-003AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		9.55	5.000	4.499	101.0	9.340	2.20	11/17/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R339482		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111356-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.230	0.2500	0	92.0	85	115	11/17/2023	

Batch R339482		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111356-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.231	0.2500	0	92.4	0.2300	0.43	11/17/2023		

Batch R339482		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111364-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.226	0.2500	0	90.4	85	115	11/17/2023	

Batch R339482		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111364-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.234	0.2500	0	93.6	0.2260	3.48	11/17/2023		

Batch R339574		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/21/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/21/2023	

Batch R339574		SampType: LCS		Units mg/L							Date Analyzed
SampID: 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		0.495	0.5000	0	99.0	90	110	11/21/2023	

Batch R339574		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-074AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.177	0.2500	0.02100	62.4	85	115	11/21/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch	R339574	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23110002-074AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.177	0.2500	0.02100	62.4	0.1770	0.00	11/21/2023	

Batch	R339574	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23110002-080AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.280	0.2500	0.03200	99.2	85	115	11/21/2023	

Batch	R339574	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23110002-080AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.286	0.2500	0.03200	101.6	0.2800	2.12	11/21/2023	

Batch	R339574	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111443-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.677	0.2500	0.4150	104.8	90	110	11/21/2023	

Batch	R339574	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111443-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.685	0.2500	0.4150	108.0	0.6770	1.17	11/21/2023	

Batch	R339574	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111488-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.04	1.250	1.690	107.8	90	110	11/21/2023	

Batch	R339574	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111488-002CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.250		2.98	1.250	1.690	103.1	3.037	1.93	11/21/2023	

Batch	R339574	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 23111625-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		1.00		13.7	5.000	8.978	95.0	90	110	11/21/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch	R339574	SampType:	MSD	Units mg/L				RPD Limit 10			
SampID: 23111625-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		14.2	5.000	8.978	104.7	13.73	3.47	11/21/2023	

Batch	R339574	SampType:	MS	Units mg/L				RPD Limit 10			
SampID: 23111660-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.320	0.2500	0.07400	98.4	90	110	11/21/2023	

Batch	R339574	SampType:	MSD	Units mg/L				RPD Limit 10			
SampID: 23111660-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.319	0.2500	0.07400	98.0	0.3200	0.31	11/21/2023	

Batch	R339574	SampType:	MS	Units mg/L				RPD Limit 10			
SampID: 23111667-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.448	0.2500	0.1800	107.2	90	110	11/21/2023	

Batch	R339574	SampType:	MSD	Units mg/L				RPD Limit 10			
SampID: 23111667-002CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.448	0.2500	0.1800	107.2	0.4480	0.00	11/21/2023	

Batch	R339708	SampType:	MBLK	Units mg/L				RPD Limit 10			
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/22/2023	

Batch	R339708	SampType:	LCS	Units mg/L				RPD Limit 10			
SampID: 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		0.491	0.5000	0	98.2	90	110	11/22/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R340414		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						12/11/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	12/11/2023	

Batch R340414		SampType: LCS		Units mg/L							
SampID: 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		0.512	0.5000	0	102.4	90	110	12/11/2023	

Batch R340414		SampType: MS		Units mg/L							
SampID: 23120389-001KMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00	E	21.7	5.000	16.22	109.9	90	110	12/11/2023	

Batch R340414		SampType: MSD		Units mg/L							
SampID: 23120389-001KMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00	E	21.2	5.000	16.22	100.6	21.71	2.18	12/11/2023	

Batch R340414		SampType: MS		Units mg/L							
SampID: 23120455-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.250		2.56	1.250	1.315	99.8	90	110	12/11/2023	

Batch R340414		SampType: MSD		Units mg/L							
SampID: 23120455-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.250		2.57	1.250	1.315	100.1	2.563	0.12	12/11/2023	

Batch R340414		SampType: MS		Units mg/L							
SampID: 23120598-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	H	0.252	0.2500	0	100.8	90	110	12/11/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120598-007BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrate-Nitrite (as N)		0.050	H	0.253	0.2500	0	101.2	0.2520	0.40	12/11/2023		

Batch	R340414	SampType:	MS	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120607-002BMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Nitrate-Nitrite (as N)		1.00		13.2	5.000	8.018	104.5	90	110	12/11/2023		

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120607-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrate-Nitrite (as N)		1.00		13.2	5.000	8.018	104.5	13.24	0.02	12/11/2023		

Batch	R340414	SampType:	MS	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120635-002CMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Nitrate-Nitrite (as N)		0.250	S	3.91	1.250	2.508	112.4	90	110	12/11/2023		

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120635-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrate-Nitrite (as N)		0.250	S	3.90	1.250	2.508	111.3	3.913	0.36	12/11/2023		

Batch	R340414	SampType:	MS	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120637-002AMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Nitrate-Nitrite (as N)		10.0		102	50.00	53.26	98.2	90	110	12/11/2023		

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120637-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrate-Nitrite (as N)		10.0		104	50.00	53.26	102.2	102.4	1.90	12/11/2023		

Batch	R340414	SampType:	MS	Units mg/L				RPD Limit 10				Date Analyzed
SampID: 23120674-002CMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Nitrate-Nitrite (as N)		2.50	H	26.6	12.50	13.65	103.8	90	110	12/11/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23120674-002CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50	H	26.4	12.50	13.65	102.0	26.63	0.88	12/11/2023	

Batch	R340414	SampType:	MS	Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: 23120735-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		1.00		11.6	5.000	6.287	105.5	90	110	12/11/2023

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23120735-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		11.6	5.000	6.287	106.3	11.56	0.35	12/11/2023	

Batch	R340414	SampType:	MS	Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: 23120746-001CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.20	1.250	1.980	97.8	90	110	12/11/2023

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23120746-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.25	1.250	1.980	101.7	3.202	1.52	12/11/2023	

Batch	R340414	SampType:	MS	Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: 23120809-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		2.50		32.5	12.50	19.96	100.4	90	110	12/11/2023

Batch	R340414	SampType:	MSD	Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23120809-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		32.5	12.50	19.96	100.4	32.52	0.01	12/11/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 5210 B 2001, 2011

Batch 214780 SampType: LCS Units mg/L

SampleID: LCS-BOD-1-111623

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Biochemical Oxygen Demand		100		210	198.0	0	106.1	84.6	115.4	11/16/2023

Batch 214780 SampType: DUP Units mg/L

SampleID: 23111220-001ADUP

RPD Limit 40

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Biochemical Oxygen Demand		10		200				196.0	2.02	11/16/2023

Batch 214780 SampType: DUP Units mg/L

SampleID: 23111271-001ADUP

RPD Limit 40

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Biochemical Oxygen Demand		10		< 10				0	0.00	11/16/2023

Batch 214994 SampType: LCS Units mg/L

SampleID: LCS-BOD-2-112123

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Biochemical Oxygen Demand		100		182	198.0	0	91.9	84.6	115.4	11/21/2023

Batch 214994 SampType: DUP Units mg/L

SampleID: 23110002-102EDUP

RPD Limit 40

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Biochemical Oxygen Demand		10		< 10				0	0.00	11/21/2023

Batch 214994 SampType: DUP Units mg/L

SampleID: 23111685-001CDUP

RPD Limit 40

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Biochemical Oxygen Demand		50		370				420.0	12.66	11/21/2023

STANDARD METHODS 5220 D (TOTAL) 1997

Batch R339506 SampType: MBLK Units mg/L

SampleID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		50		< 50	17.00	0	0	-100	100	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

STANDARD METHODS 5220 D (TOTAL) 1997

Batch R339506		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		50		119	109.4	0	108.4	90	110	11/20/2023	

Batch R339506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110389-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1070	1000	0	106.6	90	110	11/20/2023	

Batch R339506		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110389-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chemical Oxygen Demand		100		1050	1000	0	105.2	1066	1.28	11/20/2023		

Batch R339506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111176-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1110	1000	59.77	105.1	90	110	11/20/2023	

Batch R339506		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111176-001EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chemical Oxygen Demand		100		1080	1000	59.77	102.4	1111	2.47	11/20/2023		

Batch R339506		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111282-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1500	1000	437.8	105.8	90	110	11/20/2023	

Batch R339506		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111282-001EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chemical Oxygen Demand		100		1470	1000	437.8	103.1	1496	1.83	11/20/2023		

Batch R339725		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		50		< 50	17.00	0	0	-100	100	11/27/2023	



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Batch R339725		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		50		106	109.4	0	96.8	90	110	11/27/2023	

Batch R339725		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111508-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1080	1000	0	108.0	90	110	11/27/2023	

Batch R339725		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111508-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chemical Oxygen Demand		100		1060	1000	0	106.3	1080	1.59	11/27/2023		

Batch R339725		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111700-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1080	1000	18.65	106.1	90	110	11/27/2023	

Batch R339725		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111700-001DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chemical Oxygen Demand		100		1080	1000	18.65	106.6	1080	0.39	11/27/2023		

Batch R339725		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111700-006DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		1060	1000	0	105.9	90	110	11/27/2023	

Batch R339725		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111700-006DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chemical Oxygen Demand		100		1050	1000	0	105.0	1059	0.81	11/27/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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Batch R339417 SampType: MBLK Units mg/L

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		< 0.0010	0.0004	0	0	-100	100	11/17/2023

Batch R339417 SampType: LCS Units mg/L

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0505	0.0500	0	101.0	90	110	11/17/2023

Batch R339417 SampType: MS Units µg/L

SampID: 23110002-085DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		10.0		517	500.0	13.00	100.8	85	115	11/17/2023

Batch R339417 SampType: MS Units mg/L

SampID: 23111267-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent	*	0.0050		0.2325	0.2500	0.003000	91.8	85	115	11/17/2023

Batch R339417 SampType: MS Units mg/L

SampID: 23111268-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent	*	0.0050		0.2475	0.2500	0	99.0	85	115	11/17/2023

Batch R339417 SampType: MS Units mg/L

SampID: 23111341-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0496	0.0500	0	99.2	85	115	11/17/2023

Batch R339417 SampType: MSD Units mg/L

SampID: 23111341-001AMSD

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chromium, Hexavalent		0.0010		0.0514	0.0500	0	102.8	0.04960	3.56	11/17/2023

Batch R339417 SampType: MS Units mg/L

SampID: 23111360-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0492	0.0500	0	98.4	85	115	11/17/2023



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Batch R339417		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23111360-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0487	0.0500	0	97.4	0.04920	1.02	11/17/2023	

Batch R339417		SampType: MS		Units mg/L							
SampID: 23111360-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0486	0.0500	0	97.2	85	115	11/17/2023	

Batch R339417		SampType: MS		Units mg/L							
SampID: 23111360-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010	S	0.0361	0.0500	0	72.2	85	115	11/17/2023	
Chromium, Hexavalent		0.0100		0.4780	0.5000	0	95.6	85	115	11/17/2023	

Batch R339417		SampType: MS		Units mg/L							
SampID: 23111360-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0494	0.0500	0.001700	95.4	85	115	11/17/2023	

Batch R339417		SampType: MS		Units mg/L							
SampID: 23111360-005AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0507	0.0500	0.001500	98.4	85	115	11/17/2023	

Batch R339417		SampType: MS		Units mg/L							
SampID: 23111360-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0473	0.0500	0	94.6	85	115	11/17/2023	

Batch R339417		SampType: MS		Units mg/L							
SampID: 23111360-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0463	0.0500	0	92.6	85	115	11/17/2023	



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Batch R339417		SampType: MS		Units mg/L						
SampID: 23111360-008AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0491	0.0500	0	98.2	85	115	11/17/2023

Batch R339417		SampType: MS		Units mg/L						
SampID: 23111360-009AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0502	0.0500	0.001200	98.0	85	115	11/17/2023

Batch R339417		SampType: MS		Units mg/L						
SampID: 23111362-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0486	0.0500	0	97.2	85	115	11/17/2023

Batch R339417		SampType: MS		Units mg/L						
SampID: 23111362-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0100		0.5320	0.5000	0	106.4	85	115	11/17/2023
Chromium, Hexavalent		0.0010	S	0.0356	0.0500	0	71.2	85	115	11/17/2023

Batch R339417		SampType: MS		Units mg/L						
SampID: 23111362-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.1098	0.0500	0.05730	105.0	85	115	11/17/2023

Batch R339417		SampType: MS		Units mg/L						
SampID: 23111362-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0495	0.0500	0	99.0	85	115	11/17/2023

Batch R339417		SampType: MS		Units mg/L						
SampID: 23111362-005AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent		0.0010		0.0509	0.0500	0	101.8	85	115	11/17/2023



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Batch R339542		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		< 0.0010	0.0004	0	0	-100	100	11/20/2023	

Batch R339542		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0490	0.0500	0	98.0	90	110	11/20/2023	

Batch R339542		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-102DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		1.00		49.1	50.00	0	98.2	85	115	11/21/2023	

Batch R339542		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111497-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0486	0.0500	0	97.2	85	115	11/20/2023	

Batch R339542		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111497-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chromium, Hexavalent		0.0010		0.0503	0.0500	0	100.6	0.04860	3.44	11/20/2023		

Batch R339542		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111531-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0050		0.2410	0.2500	0	96.4	85	115	11/20/2023	

Batch R339542		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111653-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0462	0.0500	0.001900	88.6	85	115	11/21/2023	

Batch R339542		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111662-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0514	0.0500	0	102.8	85	115	11/21/2023	



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Batch	R339542	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chromium, Hexavalent		0.0010		0.0532	0.0500	0	106.4	0.05140	3.44	11/21/2023	

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Batch	214815	SampType:	MBLK	Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/17/2023	

Batch	214815	SampType:	LCS	Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.025	0.0250	0	98.6	90	110	11/17/2023	

Batch	214879	SampType:	MBLK	Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/20/2023	

Batch	214879	SampType:	LCS	Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.026	0.0250	0	102.2	85	115	11/20/2023	

Batch	214879	SampType:	MS	Units mg/L							Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.025	0.0250	0	99.5	75	125	11/20/2023	

Batch	214879	SampType:	MSD	Units mg/L			RPD Limit 15				Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Cyanide		0.005		0.025	0.0250	0	98.8	0.02488	0.71	11/20/2023	



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Batch 214879		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111147-002HMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	101.6	75	125	11/20/2023	

Batch 214879		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111147-002HMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.025	0.0250	0	101.7	0.02540	0.14	11/20/2023		

Batch 214879		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111147-009EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	101.0	75	125	11/20/2023	

Batch 214879		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111147-009EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.024	0.0250	0	97.7	0.02524	3.28	11/20/2023		

Batch 214879		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111147-012EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	103.8	75	125	11/20/2023	

Batch 214879		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111147-012EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.026	0.0250	0	102.3	0.02596	1.51	11/20/2023		

Batch 214880		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231117 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/20/2023	

Batch 214880		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231117 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	103.8	90	110	11/20/2023	



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Batch 214880		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-027EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	99.8	75	125	11/20/2023	

Batch 214880		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-027EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.024	0.0250	0	95.6	0.02496	4.32	11/20/2023		

Batch 214948		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231120 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/21/2023	

Batch 214948		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231120 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	98.6	90	110	11/21/2023	

Batch 214948		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-038EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.020	0.0250	0	80.9	75	125	11/21/2023	

Batch 214948		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-038EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.023	0.0250	0	90.9	0.02022	11.71	11/21/2023		

Batch 214948		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-091EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	105.4	75	125	11/21/2023	

Batch 214948		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-091EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.028	0.0250	0	110.6	0.02634	4.89	11/21/2023		



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Batch 215079		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231122 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/27/2023	

Batch 215079		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231122 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.024	0.0250	0	96.5	90	110	11/27/2023	

Batch 215079		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111474-003HMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0.002495	92.8	75	125	11/27/2023	

Batch 215079		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111474-003HMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.030	0.0250	0.002495	108.0	0.02570	13.80	11/27/2023		

Batch 215079		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111497-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025		0.145	0.1250	0.01730	102.1	90	110	11/27/2023	

Batch 215079		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111497-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.025		0.143	0.1250	0.01730	100.5	0.1450	1.39	11/27/2023		

Batch 215081		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231122 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/27/2023	

Batch 215081		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231122 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	99.7	85	115	11/27/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9012A (TOTAL)

Batch 215081		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-074DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.022	0.0250	0	86.7	75	125	11/27/2023	

Batch 215081		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-074DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.023	0.0250	0	92.5	0.02168	6.41	11/27/2023		

Batch 215150		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231127 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/29/2023	

Batch 215150		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231127 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	108.1	90	110	11/29/2023	

Batch 215150		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111697-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025		0.138	0.1250	0.01408	99.4	90	110	11/29/2023	

Batch 215150		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111697-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.025		0.138	0.1250	0.01408	99.4	0.1384	0.00	11/29/2023		

Batch 215150		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111830-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025		0.152	0.1250	0.01910	106.2	90	110	11/29/2023	

Batch 215150		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111830-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.025		0.139	0.1250	0.01910	96.1	0.1519	8.67	11/29/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9012A (TOTAL)

Batch 215151		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231127 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/29/2023	

Batch 215151		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231127 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	103.0	90	110	11/29/2023	

Batch 215151		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-081DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	102.3	75	125	11/29/2023	

Batch 215151		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-081DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.026	0.0250	0	103.3	0.02558	0.99	11/29/2023		

Batch 215200		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231128 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/29/2023	

Batch 215200		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231128 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	107.2	90	110	11/29/2023	

Batch 215200		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-102IMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	107.7	75	125	11/29/2023	

Batch 215200		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-102IMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.027	0.0250	0	106.9	0.02692	0.69	11/29/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9012A (TOTAL)

Batch 215754		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 231208 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	12/11/2023	

Batch 215754		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 231208 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	101.4	90	110	12/11/2023	

Batch 215754		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120571-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025		0.137	0.1250	0.02078	92.7	90	110	12/11/2023	

Batch 215754		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23120571-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.025		0.142	0.1250	0.02078	96.9	0.1367	3.72	12/11/2023		

Batch 215754		SampType: MS		Units µg/L							Date Analyzed
SampID: 23120603-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		5.00		26.1	25.00	0	104.2	90	110	12/11/2023	

Batch 215754		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23120603-004BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		5.00		27.0	25.00	0	107.8	26.06	3.38	12/11/2023		

SW-846 9036 (DISSOLVED)

Batch R339393		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		308	200.0	137.5	85.4	85	115	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (DISSOLVED)

Batch R339393		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		317	200.0	137.5	89.7	308.2	2.74	11/16/2023	

Batch R339502		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-012BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	E	50	20.00	31.98	90.4	85	115	11/17/2023	

Batch R339502		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-012BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		10		50	20.00	31.98	90.0	50.06	0.16	11/17/2023	

Batch R339502		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-015BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		299	200.0	122.8	88.2	85	115	11/17/2023	

Batch R339502		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-015BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		297	200.0	122.8	86.9	299.2	0.86	11/17/2023	

Batch R339502		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-027BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		192	100.0	96.21	96.3	85	115	11/17/2023	

Batch R339502		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-027BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		198	100.0	96.21	101.9	192.5	2.91	11/17/2023	

Batch R339502		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111131-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		292	200.0	115.0	88.5	85	115	11/18/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (DISSOLVED)

Batch R339502		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111131-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		289	200.0	115.0	87.1	292.1	0.96	11/18/2023	

Batch R339808		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-046BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		449	200.0	269.9	89.8	85	115	11/28/2023	

Batch R339808		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-046BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		442	200.0	269.9	86.1	449.4	1.66	11/28/2023	

Batch R339808		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-050BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		154	100.0	55.48	98.2	85	115	11/28/2023	

Batch R339808		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-050BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		155	100.0	55.48	99.4	153.7	0.76	11/28/2023	

Batch R339891		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-040BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		200		602	400.0	227.8	93.6	85	115	11/29/2023	

Batch R339891		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23110002-040BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		200		607	400.0	227.8	94.8	602.2	0.83	11/29/2023	

Batch R340657		SampType: MS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23121193-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	103	40.00	65.84	92.9	85	115	12/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (DISSOLVED)

Batch R340657		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23121193-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20	E	100	40.00	65.84	86.3	103.0	2.61	12/15/2023	

Batch R340912		SampType: MS		Units mg/L							
SampID: 23121192-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		3990	2000	2197	89.7	85	115	12/19/2023	

Batch R340912		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23121192-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		1000		4000	2000	2197	89.9	3992	0.10	12/19/2023	

SW-846 9036 (TOTAL)

Batch R339393		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	11/16/2023	

Batch R339393		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	92.6	90	110	11/16/2023	

Batch R339393		SampType: MS		Units mg/L							
SampID: 23110002-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		315	200.0	136.3	89.2	85	115	11/17/2023	

Batch R339393		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23110002-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		315	200.0	136.3	89.2	314.8	0.03	11/17/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (TOTAL)

Batch R339393		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110858-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		88	40.00	47.08	101.7	85	115	11/16/2023	

Batch R339393		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110858-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		86	40.00	47.08	97.0	87.77	2.17	11/16/2023		

Batch R339393		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110866-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		5000	S	14200	10000	6190	79.9	90	110	11/16/2023	

Batch R339393		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110866-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		5000	S	14200	10000	6190	80.1	14180	0.12	11/16/2023		

Batch R339393		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110925-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		311	200.0	123.0	94.1	85	115	11/16/2023	

Batch R339393		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110925-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100	R	351	200.0	123.0	114.2	311.1	12.14	11/16/2023		

Batch R339393		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110933-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		181	100.0	86.34	95.0	85	115	11/16/2023	

Batch R339393		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110933-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		181	100.0	86.34	94.5	181.3	0.24	11/16/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (TOTAL)

Batch R339502		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	11/17/2023	

Batch R339502		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	93.2	90	110	11/17/2023	

Batch R339502		SampType: MS		Units mg/L							
SampID: 23110002-025AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		307	200.0	131.8	87.6	85	115	11/18/2023	

Batch R339502		SampType: MSD		Units mg/L							
SampID: 23110002-025AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		306	200.0	131.8	87.0	307.0	0.39	11/18/2023	

Batch R339502		SampType: MS		Units mg/L							
SampID: 23111147-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		330	200.0	150.4	89.9	85	115	11/17/2023	

Batch R339502		SampType: MSD		Units mg/L							
SampID: 23111147-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100		335	200.0	150.4	92.3	330.3	1.42	11/17/2023	

Batch R339502		SampType: MS		Units mg/L							
SampID: 23111182-010BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	SE	53	20.00	35.92	83.0	90	110	11/17/2023	

Batch R339502		SampType: MSD		Units mg/L							
SampID: 23111182-010BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		10	E	55	20.00	35.92	95.9	52.53	4.78	11/17/2023	



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Client: Ramboll

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Client Project: COF-23Q4

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Batch R339502		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111226-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		76	40.00	37.77	95.5	90	110	11/17/2023	

Batch R339502		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111226-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		80	40.00	37.77	106.7	75.97	5.74	11/17/2023		

Batch R339808		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	11/28/2023	

Batch R339808		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS/ICV											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		22	20.00	0	108.4	90	110	11/28/2023	

Batch R339808		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-030AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	SE	106	40.00	81.72	61.4	85	115	11/28/2023	

Batch R339808		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-030AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20	SE	107	40.00	81.72	63.3	106.3	0.70	11/28/2023		

Batch R339808		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-037AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		200		794	400.0	427.3	91.7	85	115	11/29/2023	

Batch R339808		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-037AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		200		813	400.0	427.3	96.4	794.2	2.33	11/29/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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Batch R339808		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-050AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		293	200.0	113.1	90.2	85	115	11/29/2023	

Batch R339808		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-050AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		295	200.0	113.1	90.8	293.5	0.44	11/29/2023		

Batch R339808		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111432-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		46	20.00	25.09	105.6	85	115	11/28/2023	

Batch R339808		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111432-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		44	20.00	25.09	92.8	46.20	5.68	11/28/2023		

Batch R339891		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	11/29/2023	

Batch R339891		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	97.0	90	110	11/29/2023	

Batch R339891		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-042AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		200		719	400.0	333.4	96.4	85	115	11/29/2023	

Batch R339891		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110002-042AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		200		724	400.0	333.4	97.7	718.9	0.72	11/29/2023		



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Client: Ramboll

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Batch R339891		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111606-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		292	200.0	116.3	87.8	85	115	11/29/2023	

Batch R339891		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111606-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		293	200.0	116.3	88.6	291.8	0.56	11/29/2023		

Batch R340009		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/01/2023	

Batch R340009		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	95.5	90	110	12/01/2023	

Batch R340009		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110440-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		192	100.0	91.92	100.2	85	115	12/01/2023	

Batch R340009		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110440-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		188	100.0	91.92	95.7	192.1	2.34	12/01/2023		

Batch R340009		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111685-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		370	200.0	176.4	96.8	90	110	12/01/2023	

Batch R340009		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111685-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		369	200.0	176.4	96.3	370.1	0.26	12/01/2023		



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Batch R340009		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111785-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	S	42	20.00	35.33	35.0	90	110	12/01/2023	

Batch R340009		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111785-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10	S	42	20.00	35.33	33.1	42.32	0.88	12/01/2023		

Batch R340009		SampType: MS		Units mg/L							Date Analyzed
SampID: 23112066-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	S	59	40.00	23.04	88.7	90	110	12/01/2023	

Batch R340009		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23112066-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		59	40.00	23.04	90.2	58.51	1.00	12/01/2023		

Batch R340009		SampType: MS		Units mg/L							Date Analyzed
SampID: 23112078-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		316	200.0	133.3	91.2	85	115	12/01/2023	

Batch R340009		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23112078-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		319	200.0	133.3	92.9	315.7	1.06	12/01/2023		

Batch R340126		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/05/2023	

Batch R340126		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	95.0	90	110	12/05/2023	



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Batch R340126		SampType: MS		Units mg/L							Date Analyzed
SampID: 23112078-010AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		92	40.00	53.68	94.8	85	115	12/05/2023	

Batch R340126		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23112078-010AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		92	40.00	53.68	96.7	91.58	0.84	12/05/2023		

Batch R340126		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120036-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	94.3	90	110	12/05/2023	

Batch R340126		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120036-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		19	20.00	0	96.5	18.86	2.31	12/05/2023		

Batch R340126		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120190-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		32	20.00	14.61	85.0	85	115	12/05/2023	

Batch R340126		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120190-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		32	20.00	14.61	85.0	31.60	0.06	12/05/2023		

Batch R340185		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/06/2023	

Batch R340185		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		21	20.00	0	107.4	90	110	12/06/2023	



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Client Project: COF-23Q4

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Batch R340185		SampType: MS		Units mg/L							Date Analyzed
SampID: 23112017-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		390	200.0	207.1	91.7	85	115	12/06/2023	

Batch R340185		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23112017-007AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		385	200.0	207.1	88.9	390.5	1.43	12/06/2023		

Batch R340185		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120088-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		200		625	400.0	257.5	91.8	90	110	12/06/2023	

Batch R340185		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120088-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		200		629	400.0	257.5	92.8	624.8	0.61	12/06/2023		

Batch R340185		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120202-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		3980	2000	2009	98.8	90	110	12/06/2023	

Batch R340185		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120202-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		1000		3990	2000	2009	99.2	3984	0.22	12/06/2023		

Batch R340185		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120317-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		40	20.00	22.03	91.4	85	115	12/06/2023	

Batch R340185		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120317-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		41	20.00	22.03	92.6	40.32	0.54	12/06/2023		



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Batch R340310		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/08/2023	

Batch R340310		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	94.6	90	110	12/08/2023	

Batch R340310		SampType: MS		Units mg/L							
SampID: 23120389-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		1000		3560	2000	1754	90.5	90	110	12/08/2023	

Batch R340310		SampType: MSD		Units mg/L							
SampID: 23120389-001DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		1000		3600	2000	1754	92.4	3564	1.06	12/08/2023	

Batch R340310		SampType: MS		Units mg/L							
SampID: 23120399-004CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		169	100.0	72.67	96.0	90	110	12/08/2023	

Batch R340310		SampType: MSD		Units mg/L							
SampID: 23120399-004CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		163	100.0	72.67	90.8	168.7	3.18	12/08/2023	

Batch R340310		SampType: MS		Units mg/L							
SampID: 23120467-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	102	40.00	62.72	98.7	90	110	12/08/2023	

Batch R340310		SampType: MSD		Units mg/L							
SampID: 23120467-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20	E	106	40.00	62.72	108.6	102.2	3.79	12/08/2023	



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Batch R340310		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120486-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		99	40.00	61.73	92.1	85	115	12/08/2023	

Batch R340310		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120486-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		97	40.00	61.73	89.3	98.56	1.14	12/08/2023		

Batch R340310		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120623-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		97	40.00	59.95	91.8	85	115	12/08/2023	

Batch R340310		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120623-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		99	40.00	59.95	96.5	96.67	1.91	12/08/2023		

Batch R340379		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/11/2023	

Batch R340379		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		18	20.00	0	90.7	90	110	12/11/2023	

Batch R340379		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120602-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100	S	333	200.0	157.4	87.6	90	110	12/11/2023	

Batch R340379		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120602-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100	S	335	200.0	157.4	88.9	332.6	0.75	12/11/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (TOTAL)

Batch R340379		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120667-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		211	100.0	117.2	93.8	85	115	12/11/2023	

Batch R340379		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120667-007BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		206	100.0	117.2	88.7	211.0	2.47	12/11/2023		

Batch R340379		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120667-016BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	SE	59	20.00	45.61	66.3	85	115	12/11/2023	

Batch R340379		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23120667-016BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10	SE	59	20.00	45.61	66.7	58.87	0.14	12/11/2023		

Batch R340657		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/15/2023	

Batch R340657		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	92.8	90	110	12/15/2023	

Batch R340657		SampType: MS		Units mg/L							Date Analyzed
SampID: 23121094-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		200		713	400.0	344.4	92.1	90	110	12/15/2023	

Batch R340657		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23121094-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		200		714	400.0	344.4	92.4	712.9	0.13	12/15/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9036 (TOTAL)

Batch R340912		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	12/19/2023	

Batch R340912		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	98.5	90	110	12/19/2023	

Batch R340912		SampType: MS		Units mg/L							
SampID: 23121293-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		235	100.0	147.7	87.0	85	115	12/19/2023	

Batch R340912		SampType: MSD		Units mg/L							
SampID: 23121293-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		50		240	100.0	147.7	92.6	234.8	2.35	12/19/2023	

SW-846 9060A

Batch R339588		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	11/21/2023	

Batch R339588		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		5.2	5.000	0	103.6	90	110	11/21/2023	

Batch R339588		SampType: MS		Units mg/L							
SampID: 23110393-004GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		10.0		72.5	50.00	24.05	96.8	85	115	11/21/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9060A

Batch R339588		SampType: MSD		Units mg/L			RPD Limit 10			
SampID: 23110393-004GMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		10.0		72.3	50.00	24.05	96.4	72.47	0.29	11/21/2023

Batch R339588		SampType: MS		Units mg/L			RPD Limit 10			
SampID: 23111427-001DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.230	98.6	85	115	11/21/2023

Batch R339588		SampType: MSD		Units mg/L			RPD Limit 10			
SampID: 23111427-001DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.230	100.2	6.160	1.29	11/21/2023

Batch R339588		SampType: MS		Units mg/L			RPD Limit 10			
SampID: 23111427-005DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.300	98.0	85	115	11/21/2023

Batch R339588		SampType: MSD		Units mg/L			RPD Limit 10			
SampID: 23111427-005DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.300	98.4	6.200	0.32	11/21/2023

Batch R339588		SampType: MS		Units mg/L			RPD Limit 10			
SampID: 23111427-010DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.340	96.8	85	115	11/21/2023

Batch R339588		SampType: MSD		Units mg/L			RPD Limit 10			
SampID: 23111427-010DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.0	5.000	1.340	94.0	6.180	2.29	11/21/2023

Batch R339588		SampType: MS		Units mg/L			RPD Limit 10			
SampID: 23111427-020DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.8	5.000	2.200	92.0	85	115	11/22/2023



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9060A

Batch R339588		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111427-020DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		6.8	5.000	2.200	91.2	6.800	0.59	11/22/2023	

Batch R339588		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 23111427-030DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.5	5.000	2.030	89.6	85	115	11/22/2023

Batch R339588		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111427-030DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		6.4	5.000	2.030	88.4	6.510	0.93	11/22/2023	

Batch R339588		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111179-001BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		5.6				5.650	0.53	11/21/2023	

Batch R339588		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23111179-002BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		1.0		5.5				5.640	3.24	11/21/2023	

Batch R339792		SampType: MBLK		Units mg/L				RPD Limit 10			Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	11/27/2023	

Batch R339792		SampType: LCS		Units mg/L				RPD Limit 10			Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		5.2	5.000	0	103.4	90	110	11/27/2023	

Batch R339792		SampType: DUP		Units mg/L				RPD Limit			Date Analyzed
SampID: 23111238-001GDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Organic Carbon (TOC)		50.0		62.4						11/27/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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Batch R339961		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	11/30/2023	

Batch R339961		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		4.9	5.000	0	98.6	90	110	11/30/2023	

Batch R339961		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111427-035DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.190	100.6	85	115	11/30/2023	

Batch R339961		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111427-035DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Organic Carbon (TOC)		1.0		6.2	5.000	1.190	101.2	6.220	0.48	11/30/2023		

Batch R339961		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111427-040DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		7.1	5.000	2.430	93.8	85	115	11/30/2023	

Batch R339961		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111427-040DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Organic Carbon (TOC)		1.0		7.1	5.000	2.430	92.8	7.120	0.70	11/30/2023		

Batch R339961		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111475-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		8.6	5.000	3.830	94.4	85	115	11/30/2023	

Batch R339961		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111475-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Organic Carbon (TOC)		1.0		8.6	5.000	3.830	95.0	8.550	0.35	11/30/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9060A

Batch R339961		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111475-010CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		6.0	5.000	1.140	98.0	85	115	11/30/2023	

Batch R339961		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23111475-010CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Organic Carbon (TOC)		1.0		5.9	5.000	1.140	95.8	6.040	1.84	11/30/2023		

Batch R339961		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 23110941-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Organic Carbon (TOC)		2.0		5.3				5.470	3.35	11/30/2023		

SW-846 9066 (TOTAL)

Batch R339615		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		< 0.005	0.0028	0	0	-100	100	11/21/2023	

Batch R339615		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.051	0.0500	0	102.6	90	110	11/21/2023	

Batch R339615		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-030FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5	SE	114	50.00	14.02	200.6	85	115	11/21/2023	

Batch R339615		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-030FMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		5	SE	108	50.00	14.02	188.9	114.3	5.26	11/21/2023		



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Client Project: COF-23Q4

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SW-846 9066 (TOTAL)

Batch R339615		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111267-002FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005	S	0.083	0.0500	0.01917	127.7	90	110	11/21/2023	

Batch R339615		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111267-002FMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.005	S	0.086	0.0500	0.01917	133.1	0.08304	3.18	11/21/2023		

Batch R339615		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111268-002EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.053	0.0500	0	106.4	90	110	11/21/2023	

Batch R339615		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111268-002EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.005		0.052	0.0500	0	103.6	0.05322	2.67	11/21/2023		

Batch R339615		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111494-001GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005	S	0.056	0.0500	0	111.5	90	110	11/21/2023	

Batch R339615		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111494-001GMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.005	S	0.057	0.0500	0	113.7	0.05575	1.97	11/21/2023		

Batch R339857		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		< 0.005	0.0028	0	0	-100	100	11/29/2023	

Batch R339857		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.052	0.0500	0	103.1	90	110	11/29/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9066 (TOTAL)

Batch R339857		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111728-001GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005	S	0.069	0.0500	0.003490	130.5	90	110	11/29/2023	

Batch R339857		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111728-001GMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.005	S	0.060	0.0500	0.003490	112.5	0.06873	13.98	11/29/2023		

Batch R339857		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111799-014AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.052	0.0500	0	104.3	90	110	11/29/2023	

Batch R339857		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111799-014AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.005		0.054	0.0500	0	108.4	0.05214	3.87	11/29/2023		

Batch R339857		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111826-001GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005	S	0.059	0.0500	0.003130	112.4	90	110	11/29/2023	

Batch R339857		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111826-001GMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.005	S	0.065	0.0500	0.003130	123.7	0.05934	9.04	11/29/2023		

Batch R339857		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111951-003EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.025	E	0.509	0.2500	0.2394	108.0	90	110	11/29/2023	

Batch R339857		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111951-003EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Phenols		0.025	E	0.503	0.2500	0.2394	105.5	0.5094	1.24	11/29/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (DISSOLVED)

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.58	2.000	0.3230	112.8	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.51	2.000	0.3230	109.3	2.580	2.79	11/27/2023		

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-011BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.49	2.000	0.3850	105.2	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-011BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.50	2.000	0.3850	105.7	2.489	0.40	11/27/2023		

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-014BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.29	2.000	0.2130	103.7	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-014BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.32	2.000	0.2130	105.2	2.287	1.30	11/27/2023		

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-019BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.78	2.000	0.5970	109.1	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-019BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.75	2.000	0.5970	107.4	2.779	1.19	11/27/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (DISSOLVED)

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-027BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.61	2.000	0.4300	109.0	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-027BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.76	2.000	0.4300	116.8	2.610	5.77	11/27/2023		

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-034BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.44	2.000	0.3820	103.0	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-034BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.46	2.000	0.3820	103.6	2.442	0.53	11/27/2023		

Batch R339717		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-046BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.48	2.000	0.3630	105.6	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-046BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.45	2.000	0.3630	104.4	2.476	1.06	11/27/2023		

SW-846 9214 (TOTAL)

Batch R339717		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	11/27/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R339717		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.93	1.000	0	92.7	90	110	11/27/2023	

Batch R339717		SampType: MS		Units mg/L							
SampID: 23110002-036AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.34	2.000	0.3500	99.6	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							
SampID: 23110002-036AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.39	2.000	0.3500	102.0	2.342	2.03	11/27/2023	

Batch R339717		SampType: MS		Units mg/L							
SampID: 23110002-048AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.19	2.000	0.2810	95.6	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							
SampID: 23110002-048AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.20	2.000	0.2810	95.9	2.193	0.27	11/27/2023	

Batch R339717		SampType: MS		Units mg/L							
SampID: 23111262-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		3.38	2.000	1.104	114.1	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L							
SampID: 23111262-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		3.27	2.000	1.104	108.1	3.385	3.58	11/27/2023	

Batch R339717		SampType: MS		Units mg/L							
SampID: 23111427-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.23	2.000	0.1350	104.8	75	125	11/27/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R339717		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111427-007AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.25	2.000	0.1350	105.8	2.230	0.98	11/27/2023	

Batch R339717		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23111427-015AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.16	2.000	0.1440	100.8	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111427-015AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.21	2.000	0.1440	103.1	2.161	2.06	11/27/2023	

Batch R339717		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23111427-023AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.24	2.000	0.1930	102.5	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111427-023AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.22	2.000	0.1930	101.5	2.243	0.94	11/27/2023	

Batch R339717		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23111427-031AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.35	2.000	0.3080	102.2	75	125	11/27/2023	

Batch R339717		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111427-031AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.40	2.000	0.3080	104.6	2.351	2.02	11/27/2023	

Batch R339717		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23111427-039AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.30	2.000	0.3020	100.0	75	125	11/27/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R339717		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111427-039AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.38	2.000	0.3020	103.7	2.301	3.21	11/27/2023	

Batch R339781		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	11/28/2023	

Batch R339781		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.98	1.000	0	98.3	90	110	11/28/2023	

Batch R339781		SampType: MS		Units mg/L							
SampID: 23110002-027AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.55	2.000	0.4220	106.5	75	125	11/28/2023	

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-027AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.56	2.000	0.4220	106.7	2.552	0.16	11/28/2023	

Batch R339781		SampType: MS		Units mg/L							
SampID: 23110002-035AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.46	2.000	0.3380	106.3	75	125	11/28/2023	

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-035AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.47	2.000	0.3380	106.8	2.464	0.36	11/28/2023	

Batch R339781		SampType: MS		Units mg/L							
SampID: 23110002-057AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.45	2.000	0.3060	107.0	75	125	11/28/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-057AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.44	2.000	0.3060	106.6	2.447	0.33	11/28/2023	

Batch R339781		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110002-066AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.48	2.000	0.3340	107.4	75	125	11/28/2023	

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-066AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.45	2.000	0.3340	105.7	2.482	1.38	11/28/2023	

Batch R339781		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110002-090AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.56	2.000	0.3530	110.2	75	125	11/28/2023	

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-090AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.48	2.000	0.3530	106.5	2.557	2.94	11/28/2023	

Batch R339781		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110002-102CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.02	2.000	0	101.0	75	125	11/28/2023	

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-102CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.02	2.000	0	100.8	2.019	0.20	11/28/2023	

Batch R339781		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110002-107AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.50	2.000	0.3860	105.8	75	125	11/28/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-107AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.54	2.000	0.3860	107.6	2.502	1.43	11/28/2023	

Batch R339781		SampType: MS		Units mg/L							
SampID: 23110440-020AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.41	2.000	0.2890	106.1	75	125	11/28/2023	

Batch R339781		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110440-020AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.32	2.000	0.2890	101.7	2.411	3.76	11/28/2023	

Batch R340135		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	12/06/2023	

Batch R340135		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.92	1.000	0	91.7	90	110	12/06/2023	

Batch R340135		SampType: MS		Units mg/L							
SampID: 23112017-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.18	2.000	0.1590	101.1	75	125	12/06/2023	

Batch R340135		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23112017-007AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.19	2.000	0.1590	101.4	2.181	0.32	12/06/2023	

Batch R340135		SampType: MS		Units mg/L							
SampID: 23120291-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.30	2.000	0.3530	97.1	75	125	12/06/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R340135		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120291-004AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.50	2.000	0.3530	107.6	2.295	8.75	12/06/2023	

Batch R340348		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	12/11/2023	

Batch R340348		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.02	1.000	0	102.4	90	110	12/11/2023	

Batch R340348		SampType: MS		Units mg/L							
SampID: 23120456-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.30	2.000	0.1750	106.1	75	125	12/11/2023	

Batch R340348		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120456-005BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.32	2.000	0.1750	107.4	2.297	1.17	12/11/2023	

Batch R340348		SampType: MS		Units mg/L							
SampID: 23120502-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.66	2.000	0.3990	112.8	75	125	12/11/2023	

Batch R340348		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120502-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.53	2.000	0.3990	106.4	2.655	4.90	12/11/2023	

Batch R340348		SampType: MS		Units mg/L							
SampID: 23120580-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.90	2.000	0.5860	115.6	75	125	12/11/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9214 (TOTAL)

Batch R340348		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120580-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.87	2.000	0.5860	114.3	2.897	0.87	12/11/2023	

Batch R340348		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23120598-010BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.45	2.000	0.2160	111.6	75	125	12/11/2023	

Batch R340348		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120598-010BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.42	2.000	0.2160	110.0	2.447	1.32	12/11/2023	

Batch R340348		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23120603-011AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.36	2.000	0.1790	108.8	75	125	12/11/2023	

Batch R340348		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120603-011AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.36	2.000	0.1790	109.0	2.355	0.21	12/11/2023	

SW-846 9251 (DISSOLVED)

Batch R339442		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110002-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	54	20.00	34.74	95.8	85	115	11/16/2023	

Batch R339442		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	53	20.00	34.74	93.7	53.89	0.76	11/16/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9251 (DISSOLVED)

Batch R339442		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-027BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		228	200.0	43.80	92.1	85	115	11/16/2023	

Batch R339442		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-027BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		228	200.0	43.80	92.0	228.0	0.05	11/16/2023		

Batch R339442		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110823-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		80		623	400.0	282.1	85.2	85	115	11/16/2023	

Batch R339442		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110823-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		80		632	400.0	282.1	87.4	623.0	1.38	11/16/2023		

Batch R339515		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-012BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		276	200.0	99.82	88.1	85	115	11/17/2023	

Batch R339515		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-012BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		276	200.0	99.82	88.2	276.1	0.03	11/17/2023		

Batch R339515		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-015BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		92	40.00	56.95	88.8	85	115	11/17/2023	

Batch R339515		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-015BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		8		94	40.00	56.95	93.3	92.47	1.92	11/17/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9251 (DISSOLVED)

Batch R339515		SampType: MS		Units mg/L							Date Analyzed
SampID: 23111131-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		83	40.00	47.51	87.8	85	115	11/18/2023	

Batch R339515		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23111131-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		8		82	40.00	47.51	86.0	82.63	0.85	11/18/2023		

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-040BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		247	200.0	61.34	92.8	85	115	11/28/2023	

Batch R339847		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-040BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		248	200.0	61.34	93.5	246.8	0.63	11/28/2023		

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-046BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	S	49	20.00	32.52	84.6	85	115	11/28/2023	

Batch R339847		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-046BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4	S	49	20.00	32.52	84.0	49.45	0.26	11/28/2023		

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-050BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		128	100.0	33.51	94.8	85	115	11/28/2023	

Batch R339847		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-050BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		20		131	100.0	33.51	97.1	128.3	1.82	11/28/2023		



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9251 (DISSOLVED)

Batch R340671		SampType: MS		Units mg/L							Date Analyzed
SampID: 23121192-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		463	200.0	285.4	89.0	85	115	12/15/2023	

Batch R340671		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23121192-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		456	200.0	285.4	85.5	463.5	1.54	12/15/2023		

Batch R340671		SampType: MS		Units mg/L							Date Analyzed
SampID: 23121193-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	64	20.00	42.64	107.7	85	115	12/15/2023	

Batch R340671		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23121193-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4	E	64	20.00	42.64	106.2	64.18	0.45	12/15/2023		

SW-846 9251 (TOTAL)

Batch R339442		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	11/16/2023	

Batch R339442		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	94.7	90	110	11/16/2023	

Batch R339442		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	52	20.00	33.09	96.7	85	115	11/17/2023	



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Work Order: 23110002

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SW-846 9251 (TOTAL)

Batch R339442		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	52	20.00	33.09	93.3	52.43	1.31	11/17/2023	

Batch R339442		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110002-027AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		226	200.0	42.91	91.6	85	115	11/17/2023	

Batch R339442		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-027AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		40		226	200.0	42.91	91.6	226.0	0.02	11/17/2023	

Batch R339442		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110858-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		29	20.00	10.30	91.5	85	115	11/16/2023	

Batch R339442		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110858-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		28	20.00	10.30	89.6	28.60	1.34	11/16/2023	

Batch R339442		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110866-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4000		24700	20000	5923	94.0	85	115	11/16/2023	

Batch R339442		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110866-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4000		25900	20000	5923	100.0	24710	4.77	11/16/2023	

Batch R339442		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23110933-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		36	20.00	18.76	88.2	85	115	11/16/2023	



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Client Project: COF-23Q4

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Batch R339442		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110933-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		37	20.00	18.76	89.8	36.40	0.88	11/16/2023	

Batch R339515		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	11/17/2023	

Batch R339515		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	95.1	90	110	11/17/2023	

Batch R339515		SampType: MS		Units mg/L							
SampID: 23110002-025AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		41	20.00	23.44	88.3	85	115	11/18/2023	

Batch R339515		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-025AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		41	20.00	23.44	88.4	41.10	0.07	11/18/2023	

Batch R339515		SampType: MS		Units mg/L							
SampID: 23111182-015BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		36	20.00	17.99	89.0	85	115	11/17/2023	

Batch R339515		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111182-015BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		36	20.00	17.99	88.2	35.80	0.50	11/17/2023	

Batch R339847		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	11/28/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

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SW-846 9251 (TOTAL)

Batch R339847		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS/ICV											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	101.9	90	110	11/28/2023	

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-030AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		80	40.00	44.03	90.3	85	115	11/28/2023	

Batch R339847		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-030AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		8		80	40.00	44.03	89.7	80.16	0.34	11/28/2023		

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-037AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		309	200.0	122.9	93.1	85	115	11/29/2023	

Batch R339847		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-037AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		307	200.0	122.9	91.9	309.1	0.80	11/29/2023		

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-042AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		97	40.00	62.60	85.6	85	115	11/29/2023	

Batch R339847		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-042AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		8		97	40.00	62.60	86.1	96.83	0.20	11/29/2023		

Batch R339847		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-050AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8	E	106	40.00	69.88	89.9	85	115	11/29/2023	



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Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9251 (TOTAL)

Batch R339847		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110002-050AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		8	E	107	40.00	69.88	93.1	105.8	1.19	11/29/2023	

Batch R339847		SampType: MS		Units mg/L							
SampID: 23111432-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	1.560	95.3	85	115	11/28/2023	

Batch R339847		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111432-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		21	20.00	1.560	95.7	20.62	0.39	11/28/2023	

Batch R339907		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	11/29/2023	

Batch R339907		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	100.5	90	110	11/29/2023	

Batch R339907		SampType: MS		Units mg/L							
SampID: 23111606-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		26	20.00	6.740	94.6	85	115	11/29/2023	

Batch R339907		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111606-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		25	20.00	6.740	92.8	25.65	1.41	11/29/2023	

Batch R339907		SampType: MS		Units mg/L							
SampID: 23111665-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		159	100.0	60.00	99.5	85	115	11/29/2023	



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SW-846 9251 (TOTAL)

Batch R339907		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111665-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		20		157	100.0	60.00	97.1	159.5	1.50	11/29/2023	

Batch R339907		SampType: MS		Units mg/L							
SampID: 23111685-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		174	100.0	83.38	90.3	85	115	11/29/2023	

Batch R339907		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23111685-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		20		173	100.0	83.38	89.6	173.7	0.39	11/29/2023	

Batch R340022		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	12/01/2023	

Batch R340022		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	101.0	90	110	12/01/2023	

Batch R340022		SampType: MS		Units mg/L							
SampID: 23110440-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		33	20.00	14.00	92.6	85	115	12/01/2023	

Batch R340022		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23110440-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		33	20.00	14.00	93.1	32.52	0.31	12/01/2023	

Batch R340022		SampType: MS		Units mg/L							
SampID: 23112078-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		30	20.00	11.15	93.3	85	115	12/01/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9251 (TOTAL)

Batch R340022		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23112078-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		30	20.00	11.15	93.4	29.80	0.07	12/01/2023	

Batch R340022		SampType: MS		Units mg/L							
SampID: 23112078-010AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		30	20.00	10.55	95.6	85	115	12/01/2023	

Batch R340022		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23112078-010AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		30	20.00	10.55	94.8	29.66	0.54	12/01/2023	

Batch R340139		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	12/05/2023	

Batch R340139		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	102.9	90	110	12/05/2023	

Batch R340139		SampType: MS		Units mg/L							
SampID: 23112008-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		80		562	400.0	201.7	90.2	85	115	12/05/2023	

Batch R340139		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23112008-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		80		568	400.0	201.7	91.6	562.3	1.05	12/05/2023	

Batch R340139		SampType: MS		Units mg/L							
SampID: 23120036-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	97.0	85	115	12/05/2023	



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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 9251 (TOTAL)

Batch R340139		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120036-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		19	20.00	0	96.3	19.39	0.67	12/05/2023	

Batch R340139		SampType: MS		Units mg/L							
SampID: 23120088-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		27	20.00	7.150	97.0	85	115	12/05/2023	

Batch R340139		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120088-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		26	20.00	7.150	94.0	26.54	2.25	12/05/2023	

Batch R340139		SampType: MS		Units mg/L							
SampID: 23120190-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		24	20.00	5.240	95.5	85	115	12/05/2023	

Batch R340139		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120190-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		24	20.00	5.240	96.0	24.33	0.41	12/05/2023	

Batch R340188		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	12/06/2023	

Batch R340188		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	103.8	90	110	12/06/2023	

Batch R340188		SampType: MS		Units mg/L							
SampID: 23112017-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		80	40.00	45.89	85.4	85	115	12/06/2023	



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SW-846 9251 (TOTAL)

Batch R340188		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23112017-007AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		8		81	40.00	45.89	88.8	80.03	1.73	12/06/2023	

Batch R340188		SampType: MS		Units mg/L							
SampID: 23120202-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		200		2440	1000	1521	92.3	85	115	12/06/2023	

Batch R340188		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120202-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		200		2450	1000	1521	93.3	2444	0.39	12/06/2023	

Batch R340188		SampType: MS		Units mg/L							
SampID: 23120317-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		30	20.00	11.76	93.4	85	115	12/06/2023	

Batch R340188		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120317-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		30	20.00	11.76	93.2	30.43	0.10	12/06/2023	

Batch R340360		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	12/08/2023	

Batch R340360		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	103.2	90	110	12/08/2023	

Batch R340360		SampType: MS		Units mg/L							
SampID: 23120467-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		282	200.0	99.52	91.3	85	115	12/08/2023	



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Batch R340360		SampType: MSD		Units mg/L			RPD Limit 15				Date Analyzed
SampID: 23120467-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride		40		282	200.0	99.52	91.2	282.0	0.03	12/08/2023	

Batch R340360		SampType: MS		Units mg/L			RPD Limit 15				Date Analyzed
SampID: 23120623-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		35	20.00	16.83	89.6	85	115	12/08/2023	

Batch R340360		SampType: MSD		Units mg/L			RPD Limit 15				Date Analyzed
SampID: 23120623-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride		4		35	20.00	16.83	88.8	34.75	0.49	12/08/2023	

Batch R340385		SampType: MBLK		Units mg/L			RPD Limit 15				Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		< 4	0.5000	0	0	-100	100	12/11/2023	

Batch R340385		SampType: LCS		Units mg/L			RPD Limit 15				Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		20	20.00	0	98.9	90	110	12/11/2023	

Batch R340385		SampType: MS		Units mg/L			RPD Limit 15				Date Analyzed
SampID: 23120502-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		2000		16100	10000	7391	87.0	85	115	12/12/2023	

Batch R340385		SampType: MSD		Units mg/L			RPD Limit 15				Date Analyzed
SampID: 23120502-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride		2000		15900	10000	7391	85.4	16090	0.99	12/12/2023	

Batch R340385		SampType: MS		Units mg/L			RPD Limit 15				Date Analyzed
SampID: 23120598-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		23	20.00	3.610	95.4	85	115	12/11/2023	



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Batch R340385		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120598-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		23	20.00	3.610	94.6	22.69	0.71	12/11/2023	

Batch R340385		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23120667-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	SE	53	20.00	35.62	84.8	85	115	12/11/2023	

Batch R340385		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120667-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	54	20.00	35.62	93.2	52.59	3.11	12/11/2023	

Batch R340385		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23120667-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		47	20.00	29.80	86.8	85	115	12/11/2023	

Batch R340385		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120667-007BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	50	20.00	29.80	102.5	47.15	6.46	12/11/2023	

Batch R340385		SampType: MS		Units mg/L				RPD Limit 15			
SampID: 23120667-016BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		30	20.00	12.53	89.0	85	115	12/11/2023	

Batch R340385		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23120667-016BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		30	20.00	12.53	87.4	30.33	1.06	12/11/2023	

Batch R340671		SampType: MBLK		Units mg/L				RPD Limit 15			
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	12/15/2023	



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Batch R340671		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	98.6	90	110	12/15/2023	

Batch R340671		SampType: MS		Units mg/L							
SampID: 23121146-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	S	36	20.00	19.60	79.8	85	115	12/15/2023	

Batch R340671		SampType: MSD		Units mg/L							
SampID: 23121146-003AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	S	36	20.00	19.60	81.4	35.55	0.92	12/15/2023	

Batch R340913		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	12/19/2023	

Batch R340913		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	104.6	90	110	12/19/2023	

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214751		SampType: MBLK		Units mg/L							
SampID: MBLK-214751											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	JS	0.050	0.0350	0	142.6	-100	100	11/17/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/16/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/16/2023	
Sodium		0.0500	S	0.0506	0.0180	0	281.1	-100	100	11/16/2023	



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SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214751 SampType: LCS Units mg/L

SampID: LCS-214751

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	B	2.39	2.500	0	95.6	85	115	11/17/2023
Magnesium		0.0500		2.27	2.500	0	90.7	85	115	11/16/2023
Potassium		0.100		2.25	2.500	0	89.9	85	115	11/16/2023
Sodium		0.0500	BS	2.03	2.500	0	81.2	85	115	11/16/2023

Batch 214751 SampType: MS Units mg/L

SampID: 23110002-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	BS	114	2.500	113.4	40.0	75	125	11/17/2023
Magnesium		0.050	S	52.2	2.500	51.31	37.6	75	125	11/16/2023
Potassium		0.100		2.97	2.500	0.7587	88.4	75	125	11/16/2023
Sodium		0.050	S	62.9	2.500	61.96	37.6	75	125	11/16/2023

Batch 214751 SampType: MSD Units mg/L

SampID: 23110002-001CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	BS	114	2.500	113.4	28.0	114.4	0.26	11/17/2023
Magnesium		0.050		53.2	2.500	51.31	76.4	52.25	1.84	11/16/2023
Potassium		0.100		2.98	2.500	0.7587	89.0	2.969	0.47	11/16/2023
Sodium		0.050	S	63.4	2.500	61.96	55.6	62.90	0.71	11/16/2023

Batch 214940 SampType: MBLK Units mg/L

SampID: MBLK-214940

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/22/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/22/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/22/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/22/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/22/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	11/22/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/22/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/22/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/22/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/22/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/22/2023



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SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214940 SampType: LCS Units mg/L

SampID: LCS-214940

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		0.449	0.5000	0	89.7	85	115	11/22/2023
Barium		0.0025		1.73	2.000	0	86.6	85	115	11/22/2023
Cadmium		0.0020		0.0432	0.0500	0	86.4	85	115	11/22/2023
Calcium		0.100		2.14	2.500	0	85.7	85	115	11/22/2023
Chromium		0.0050		0.172	0.2000	0	86.0	85	115	11/22/2023
Lead		0.0150		0.434	0.5000	0	86.7	85	115	11/22/2023
Potassium		0.100		2.37	2.500	0	94.7	85	115	11/22/2023
Selenium		0.0400		0.437	0.5000	0	87.5	85	115	11/22/2023
Silver		0.0070		0.0444	0.0500	0	88.8	85	115	11/22/2023
Sodium		0.0500		2.23	2.500	0	89.2	85	115	11/22/2023

Batch 214940 SampType: MS Units mg/L

SampID: 23110002-090DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		64.6	2.500	61.99	104.4	75	125	11/22/2023
Magnesium		0.050		31.6	2.500	29.38	87.7	75	125	11/22/2023
Potassium		0.100		2.96	2.500	0.5392	96.9	75	125	11/22/2023
Sodium		0.050		57.7	2.500	55.32	96.0	75	125	11/22/2023

Batch 214940 SampType: MSD Units mg/L

SampID: 23110002-090DMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	63.6	2.500	61.99	63.6	64.60	1.59	11/22/2023
Magnesium		0.050	S	31.1	2.500	29.38	67.9	31.57	1.59	11/22/2023
Potassium		0.100		2.92	2.500	0.5392	95.3	2.961	1.30	11/22/2023
Sodium		0.050	S	56.6	2.500	55.32	50.8	57.72	1.98	11/22/2023



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SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214940 SampType: MS Units mg/L

SampleID: 23111147-002FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		0.829	1.000	0	82.9	75	125	11/22/2023
Barium		0.0025		3.29	4.000	0.1263	79.1	75	125	11/22/2023
Cadmium		0.0020		0.0771	0.1000	0	77.1	75	125	11/22/2023
Chromium		0.0050		0.313	0.4000	0	78.2	75	125	11/22/2023
Lead		0.0150		0.781	1.000	0	78.1	75	125	11/22/2023
Selenium		0.0400		0.792	1.000	0	79.2	75	125	11/22/2023
Silver		0.0070		0.0826	0.1000	0	82.6	75	125	11/22/2023

Batch 214940 SampType: MSD Units mg/L

RPD Limit 20

SampleID: 23111147-002FMSSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		0.837	1.000	0	83.7	0.8293	0.96	11/22/2023
Barium		0.0025		3.31	4.000	0.1263	79.6	3.290	0.61	11/22/2023
Cadmium		0.0020		0.0778	0.1000	0	77.8	0.07710	0.90	11/22/2023
Chromium		0.0050		0.315	0.4000	0	78.8	0.3130	0.76	11/22/2023
Lead		0.0150		0.792	1.000	0	79.2	0.7806	1.49	11/22/2023
Selenium		0.0400		0.802	1.000	0	80.2	0.7924	1.24	11/22/2023
Silver		0.0070		0.0835	0.1000	0	83.5	0.08260	1.08	11/22/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214952 SampType: MBLK Units mg/L

SampID: MBLK-214952

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	11/27/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	11/27/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/27/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/27/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/27/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/27/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/27/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/28/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/27/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/27/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/27/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/27/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	11/27/2023
Magnesium		0.050		< 0.050	0.0055	0	0	-100	100	11/28/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/27/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	11/27/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/27/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/28/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/27/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/27/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/27/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/27/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/27/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214952 SampType: LCS Units mg/L
SampID: LCS-214952

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.78	2.000	0	88.9	85	115	11/27/2023
Antimony		0.0500		0.454	0.5000	0	90.9	85	115	11/27/2023
Arsenic		0.0250		0.464	0.5000	0	92.8	85	115	11/27/2023
Barium		0.0025		1.81	2.000	0	90.5	85	115	11/27/2023
Beryllium		0.0005		0.0458	0.0500	0	91.6	85	115	11/27/2023
Boron		0.0200		0.459	0.5000	0	91.9	85	115	11/27/2023
Cadmium		0.0020		0.0462	0.0500	0	92.4	85	115	11/27/2023
Calcium		0.100		2.34	2.500	0	93.7	85	115	11/28/2023
Chromium		0.0050		0.180	0.2000	0	89.9	85	115	11/27/2023
Cobalt		0.0050		0.460	0.5000	0	92.0	85	115	11/27/2023
Copper		0.0050		0.224	0.2500	0	89.5	85	115	11/27/2023
Iron		0.0400		1.84	2.000	0	91.9	85	115	11/27/2023
Lead		0.0150		0.455	0.5000	0	91.0	85	115	11/27/2023
Magnesium		0.050		2.34	2.500	0	93.6	85	115	11/28/2023
Manganese		0.0070		0.445	0.5000	0	89.0	85	115	11/27/2023
Molybdenum		0.0100		0.446	0.5000	0	89.2	85	115	11/27/2023
Nickel		0.0050		0.456	0.5000	0	91.2	85	115	11/27/2023
Potassium		0.100		2.28	2.500	0	91.3	85	115	11/28/2023
Selenium		0.0400		0.458	0.5000	0	91.6	85	115	11/27/2023
Silver		0.0070		0.0453	0.0500	0	90.6	85	115	11/27/2023
Sodium		0.0500		2.14	2.500	0	85.5	85	115	11/27/2023
Vanadium		0.0100		0.452	0.5000	0	90.4	85	115	11/27/2023
Zinc		0.0100		0.460	0.5000	0	92.1	85	115	11/27/2023

Batch 214952 SampType: MS Units mg/L
SampID: 23110002-011CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	77.9	2.500	77.60	10.4	75	125	11/28/2023
Magnesium		0.050	S	34.4	2.500	32.92	61.2	75	125	11/28/2023
Potassium		0.100		2.77	2.500	0.4840	91.3	75	125	11/28/2023
Sodium		0.050		35.9	2.500	33.91	79.2	75	125	11/27/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214952		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23110002-011CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	76.6	2.500	77.60	-38.8	77.86	1.59	11/28/2023	
Magnesium		0.050	S	34.0	2.500	32.92	44.0	34.45	1.26	11/28/2023	
Potassium		0.100		2.77	2.500	0.4840	91.6	2.766	0.29	11/28/2023	
Sodium		0.050	S	35.3	2.500	33.91	54.8	35.89	1.71	11/27/2023	

Batch 214952		SampType: MS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23111147-008DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Arsenic		0.0250		0.465	0.5000	0	92.9	75	125	11/27/2023	
Barium		0.0025		1.84	2.000	0.1015	86.8	75	125	11/27/2023	
Cadmium		0.0020		0.0442	0.0500	0	88.4	75	125	11/27/2023	
Chromium		0.0050		0.172	0.2000	0	86.2	75	125	11/27/2023	
Lead		0.0150		0.436	0.5000	0	87.1	75	125	11/27/2023	
Selenium		0.0400		0.440	0.5000	0	88.1	75	125	11/27/2023	
Silver		0.0070		0.0437	0.0500	0	87.4	75	125	11/27/2023	

Batch 214952		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23111147-008DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Arsenic		0.0250		0.469	0.5000	0	93.8	0.4646	0.90	11/27/2023	
Barium		0.0025		1.87	2.000	0.1015	88.3	1.837	1.62	11/27/2023	
Cadmium		0.0020		0.0449	0.0500	0	89.8	0.04420	1.57	11/27/2023	
Chromium		0.0050		0.175	0.2000	0	87.7	0.1724	1.73	11/27/2023	
Lead		0.0150		0.444	0.5000	0	88.7	0.4356	1.84	11/27/2023	
Selenium		0.0400		0.453	0.5000	0	90.7	0.4404	2.89	11/27/2023	
Silver		0.0070		0.0438	0.0500	0	87.6	0.04370	0.23	11/27/2023	

Batch 214955		SampType: MBLK		Units mg/L				RPD Limit 20			Date Analyzed
SampID: MBLK-214955											
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	11/27/2023	
Magnesium		0.050		< 0.050	0.0055	0	0	-100	100	11/27/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/28/2023	
Sodium		0.050		< 0.050	0.0180	0	0	-100	100	11/27/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 214955 SampType: LCS Units mg/L

SampID: LCS-214955

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.39	2.500	0	95.4	85	115	11/27/2023
Magnesium		0.050		2.27	2.500	0	90.8	85	115	11/27/2023
Potassium		0.100		2.31	2.500	0	92.3	85	115	11/28/2023
Sodium		0.050		2.75	2.500	0	110.0	85	115	11/27/2023

Batch 214955 SampType: MS Units mg/L

SampID: 23110002-097CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	68.0	2.500	68.81	-33.6	75	125	11/27/2023
Magnesium		0.050	S	30.6	2.500	29.71	34.4	75	125	11/27/2023
Potassium		0.100		2.55	2.500	0.2595	91.7	75	125	11/28/2023
Sodium		0.050	S	47.8	2.500	47.48	12.4	75	125	11/27/2023

Batch 214955 SampType: MSD Units mg/L

RPD Limit 20

SampID: 23110002-097CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	67.8	2.500	68.81	-38.8	67.97	0.19	11/27/2023
Magnesium		0.050	S	30.5	2.500	29.71	32.4	30.57	0.16	11/27/2023
Potassium		0.100		2.59	2.500	0.2595	93.3	2.553	1.52	11/28/2023
Sodium		0.050	S	47.8	2.500	47.48	12.4	47.79	0.00	11/27/2023

Batch 214955 SampType: MS Units mg/L

SampID: 23110394-004CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Magnesium		0.050	S	114	2.500	113.3	40.0	75	125	11/27/2023

Batch 214955 SampType: MSD Units mg/L

RPD Limit 20

SampID: 23110394-004CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Magnesium		0.050		115	2.500	113.3	76.0	114.3	0.78	11/27/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215051 SampType: MBLK Units mg/L

SampID: MBLK-215051

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	11/30/2023
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	11/28/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	11/28/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	11/30/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/30/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/28/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/30/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/30/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/28/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/28/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/30/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/28/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/30/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/30/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/28/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/30/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/30/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/28/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/28/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/30/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/30/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/28/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	11/28/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	11/30/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/30/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/30/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/28/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	11/30/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	11/28/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/30/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/28/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/30/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/28/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/30/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/30/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/28/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215051 SampType: MBLK Units mg/L

SampID: MBLK-215051

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/30/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/28/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	11/28/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	11/30/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/28/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/30/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/30/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/28/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215051 SampType: LCS Units mg/L

SampID: LCS-215051

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.78	2.000	0	89.1	85	115	11/28/2023
Aluminum		0.0250		1.93	2.000	0	96.7	85	115	11/30/2023
Antimony		0.0500		0.505	0.5000	0	101.1	85	115	11/30/2023
Antimony		0.0500		0.457	0.5000	0	91.4	85	115	11/28/2023
Arsenic		0.0250		0.457	0.5000	0	91.4	85	115	11/28/2023
Arsenic		0.0250		0.515	0.5000	0	103.0	85	115	11/30/2023
Barium		0.0025		2.02	2.000	0	101.0	85	115	11/30/2023
Beryllium		0.0005		0.0463	0.0500	0	92.6	85	115	11/28/2023
Beryllium		0.0005		0.0496	0.0500	0	99.2	85	115	11/30/2023
Boron		0.0200		0.501	0.5000	0	100.1	85	115	11/30/2023
Boron		0.0200		0.462	0.5000	0	92.5	85	115	11/28/2023
Cadmium		0.0020		0.0507	0.0500	0	101.4	85	115	11/30/2023
Cadmium		0.0020		0.0462	0.0500	0	92.4	85	115	11/28/2023
Calcium		0.100		2.64	2.500	0	105.7	85	115	11/30/2023
Chromium		0.0050		0.200	0.2000	0	100.1	85	115	11/30/2023
Chromium		0.0050		0.180	0.2000	0	90.1	85	115	11/28/2023
Cobalt		0.0050		0.513	0.5000	0	102.6	85	115	11/30/2023
Cobalt		0.0050		0.458	0.5000	0	91.6	85	115	11/28/2023
Copper		0.0050		0.225	0.2500	0	89.8	85	115	11/28/2023
Copper		0.0050		0.255	0.2500	0	101.9	85	115	11/30/2023
Iron		0.0400		1.85	2.000	0	92.4	85	115	11/28/2023
Iron		0.0400		2.05	2.000	0	102.5	85	115	11/30/2023
Lead		0.0150		0.459	0.5000	0	91.7	85	115	11/28/2023
Lead		0.0150		0.506	0.5000	0	101.1	85	115	11/30/2023
Magnesium		0.0500		2.34	2.500	0	93.5	85	115	11/30/2023
Manganese		0.0070		0.447	0.5000	0	89.4	85	115	11/28/2023
Manganese		0.0070		0.498	0.5000	0	99.7	85	115	11/30/2023
Molybdenum		0.0100		0.449	0.5000	0	89.8	85	115	11/28/2023
Molybdenum		0.0100		0.498	0.5000	0	99.5	85	115	11/30/2023
Nickel		0.0050		0.457	0.5000	0	91.5	85	115	11/28/2023
Nickel		0.0050		0.513	0.5000	0	102.7	85	115	11/30/2023
Potassium		0.100		2.57	2.500	0	102.9	85	115	11/30/2023
Selenium		0.0400		0.460	0.5000	0	91.9	85	115	11/28/2023
Selenium		0.0400		0.499	0.5000	0	99.9	85	115	11/30/2023
Silver		0.0070		0.0486	0.0500	0	97.2	85	115	11/30/2023
Silver		0.0070		0.0453	0.0500	0	90.6	85	115	11/28/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215051 SampType: LCS Units mg/L

SampID: LCS-215051

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sodium		0.0500		2.15	2.500	0	86.0	85	115	11/28/2023
Sodium		0.0500		2.57	2.500	0	102.6	85	115	11/30/2023
Thallium		0.0500		0.247	0.2500	0	98.7	85	115	11/30/2023
Thallium		0.0500		0.226	0.2500	0	90.6	85	115	11/28/2023
Vanadium		0.0100		0.457	0.5000	0	91.4	85	115	11/28/2023
Vanadium		0.0100		0.506	0.5000	0	101.2	85	115	11/30/2023
Zinc		0.0100		0.505	0.5000	0	101.0	85	115	11/30/2023
Zinc		0.0100		0.460	0.5000	0	92.0	85	115	11/28/2023

Batch 215051 SampType: MS Units mg/L

SampID: 23111606-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	136	2.500	135.6	2.4	75	125	11/30/2023
Iron		0.0400		2.85	2.000	0.9822	93.2	75	125	11/28/2023
Magnesium		0.0500	S	45.9	2.500	44.56	54.2	75	125	11/30/2023
Potassium		0.100		4.77	2.500	2.335	97.3	75	125	11/30/2023
Sodium		0.0500		9.34	2.500	7.274	82.6	75	125	11/28/2023

Batch 215051 SampType: MSD Units mg/L

SampID: 23111606-001BMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	< 0.100	2.500	135.6	-5422	135.6	0.00	11/30/2023
Iron		0.0400		2.80	2.000	0.9822	90.7	2.847	1.81	11/28/2023
Magnesium		0.0500	S	44.7	2.500	44.56	4.8	45.92	2.72	11/30/2023
Potassium		0.100		4.64	2.500	2.335	92.1	4.768	2.76	11/30/2023
Sodium		0.0500		9.29	2.500	7.274	80.5	9.339	0.56	11/28/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215761 SampType: MBLK Units mg/L

SampID: MBLK-215761

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	12/11/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	12/11/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	12/11/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	12/11/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	12/11/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	12/12/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	12/11/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	12/11/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	12/11/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	12/11/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	12/11/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	12/11/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	12/11/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	12/11/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	12/11/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	12/11/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	12/11/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	12/11/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	12/11/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	12/11/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	12/11/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	12/11/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215761 SampType: LCS Units mg/L
SampID: LCS-215761

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		0.448	0.5000	0	89.7	85	115	12/11/2023
Arsenic		0.0250		0.481	0.5000	0	96.1	85	115	12/11/2023
Barium		0.0025		1.97	2.000	0	98.5	85	115	12/11/2023
Beryllium		0.0005		0.0494	0.0500	0	98.8	85	115	12/11/2023
Cadmium		0.0020		0.0475	0.0500	0	95.0	85	115	12/11/2023
Calcium		0.100		2.39	2.500	0	95.7	85	115	12/12/2023
Chromium		0.0050		0.193	0.2000	0	96.6	85	115	12/11/2023
Cobalt		0.0050		0.487	0.5000	0	97.4	85	115	12/11/2023
Copper		0.0050		0.256	0.2500	0	102.2	85	115	12/11/2023
Iron		0.0400		1.95	2.000	0	97.3	85	115	12/11/2023
Lead		0.0150		0.480	0.5000	0	96.1	85	115	12/11/2023
Magnesium		0.0500		2.23	2.500	0	89.2	85	115	12/11/2023
Manganese		0.0070		0.496	0.5000	0	99.3	85	115	12/11/2023
Molybdenum		0.0100		0.474	0.5000	0	94.7	85	115	12/11/2023
Nickel		0.0050		0.477	0.5000	0	95.3	85	115	12/11/2023
Potassium		0.100		2.62	2.500	0	104.7	85	115	12/11/2023
Selenium		0.0400		0.469	0.5000	0	93.8	85	115	12/11/2023
Silver		0.0070		0.0500	0.0500	0	100.0	85	115	12/11/2023
Sodium		0.0500		2.63	2.500	0	105.0	85	115	12/11/2023
Thallium		0.0500		0.240	0.2500	0	96.2	85	115	12/11/2023
Vanadium		0.0100		0.483	0.5000	0	96.5	85	115	12/11/2023
Zinc		0.0100		0.477	0.5000	0	95.3	85	115	12/11/2023

Batch 215761 SampType: MS Units mg/L
SampID: 23120667-003DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		3.79	4.000	0	94.8	75	125	12/11/2023
Manganese		0.0070		0.932	1.000	0	93.2	75	125	12/11/2023

Batch 215761 SampType: MSD Units mg/L
SampID: 23120667-003DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		3.74	4.000	0	93.5	3.790	1.33	12/11/2023
Manganese		0.0070		0.920	1.000	0	92.0	0.9318	1.24	12/11/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 215761		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120667-014DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Iron		0.0400		3.87	4.000	0.09400	94.4	75	125	12/11/2023	
Manganese		0.0070		0.966	1.000	0.04690	91.9	75	125	12/11/2023	

Batch 215761		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23120667-014DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Iron		0.0400		3.77	4.000	0.09400	91.9	3.870	2.62	12/11/2023		
Manganese		0.0070		0.941	1.000	0.04690	89.4	0.9661	2.64	12/11/2023		

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214894		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-214894											
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	11/20/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/20/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/20/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/20/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/20/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/20/2023	

Batch 214894		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-214894											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.39	2.500	0	95.6	85	115	11/20/2023	
Magnesium		0.0500		2.34	2.500	0	93.8	85	115	11/20/2023	
Magnesium		0.0500		2.42	2.500	0	96.8	85	115	11/20/2023	
Potassium		0.100		2.37	2.500	0	94.9	85	115	11/20/2023	
Potassium		0.100		2.52	2.500	0	100.9	85	115	11/20/2023	
Sodium		0.0500		2.50	2.500	0	99.8	85	115	11/20/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214894		SampType: MS		Units mg/L							
SampID: 23110002-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	84.2	2.500	80.72	139.6	75	125	11/21/2023	
Magnesium		0.050	S	38.7	2.500	35.58	125.4	75	125	11/21/2023	
Potassium		0.100		3.56	2.500	0.7284	113.5	75	125	11/21/2023	
Sodium		0.050	S	80.3	2.500	76.69	144.0	75	125	11/21/2023	

Batch 214894		SampType: MSD		Units mg/L							RPD Limit 20	
SampID: 23110002-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Calcium		0.100	S	83.9	2.500	80.72	126.4	84.21	0.39	11/21/2023		
Magnesium		0.050		38.4	2.500	35.58	113.6	38.71	0.77	11/21/2023		
Potassium		0.100		3.39	2.500	0.7284	106.4	3.565	5.04	11/21/2023		
Sodium		0.050	S	78.1	2.500	76.69	56.0	80.29	2.78	11/21/2023		

Batch 214894		SampType: MS		Units mg/L							
SampID: 23110002-025CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	84.8	2.500	83.34	59.6	75	125	11/21/2023	
Magnesium		0.050		37.3	2.500	35.15	86.8	75	125	11/21/2023	
Potassium		0.100		3.33	2.500	0.6254	108.2	75	125	11/21/2023	
Sodium		0.050		52.1	2.500	49.83	89.6	75	125	11/21/2023	

Batch 214894		SampType: MSD		Units mg/L							RPD Limit 20	
SampID: 23110002-025CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Calcium		0.100	S	88.0	2.500	83.34	187.6	84.83	3.70	11/21/2023		
Magnesium		0.050	S	38.3	2.500	35.15	127.6	37.32	2.70	11/21/2023		
Potassium		0.100		3.31	2.500	0.6254	107.2	3.330	0.74	11/21/2023		
Sodium		0.050	S	53.6	2.500	49.83	152.4	52.07	2.97	11/21/2023		



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214896		SampType: MBLK		Units mg/L						
SampID: MBLK-214896										
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	11/29/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	12/01/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/29/2023
Magnesium		0.050	JS	0.008	0.0055	0	152.7	-100	100	12/01/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	12/01/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/29/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/29/2023
Sodium		0.050		< 0.050	0.0180	0	0	-100	100	12/01/2023

Batch 214896		SampType: LCS		Units mg/L						
SampID: LCS-214896										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.75	2.500	0	110.2	85	115	11/29/2023
Calcium		0.100		2.74	2.500	0	109.5	85	115	12/01/2023
Magnesium		0.050	B	2.60	2.500	0	103.9	85	115	12/01/2023
Magnesium		0.0500		2.65	2.500	0	105.9	85	115	11/29/2023
Potassium		0.100		2.61	2.500	0	104.5	85	115	11/29/2023
Potassium		0.100		2.64	2.500	0	105.8	85	115	12/01/2023
Sodium		0.050		2.69	2.500	0	107.7	85	115	12/01/2023
Sodium		0.0500		2.48	2.500	0	99.3	85	115	11/29/2023

Batch 214904		SampType: MBLK		Units mg/L						
SampID: MBLK-214904										
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	11/20/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/20/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/20/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/20/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/20/2023
Sodium		0.0500		< 0.0500	0.0200	0	0	-100	100	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214904 SampType: LCS Units mg/L

SampID: LCS-214904

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.42	2.500	0	96.8	85	115	11/20/2023
Magnesium		0.0500		2.44	2.500	0	97.8	85	115	11/20/2023
Magnesium		0.0500		2.39	2.500	0	95.6	85	115	11/20/2023
Potassium		0.100		2.63	2.500	0	105.2	85	115	11/20/2023
Sodium		0.0500		2.60	2.500	0	104.0	85	115	11/20/2023

Batch 214920 SampType: MBLK Units mg/L

SampID: MBLK-214920

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	11/22/2023
Magnesium		0.050		< 0.050	0.0055	0	0	-100	100	11/22/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/22/2023
Sodium		0.050		< 0.050	0.0180	0	0	-100	100	11/22/2023

Batch 214920 SampType: LCS Units mg/L

SampID: LCS-214920

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.38	2.500	0	95.3	85	115	11/22/2023
Magnesium		0.050		2.38	2.500	0	95.3	85	115	11/22/2023
Potassium		0.100		2.59	2.500	0	103.7	85	115	11/22/2023
Sodium		0.050		2.51	2.500	0	100.2	85	115	11/22/2023

Batch 214920 SampType: MS Units mg/L

SampID: 23110002-037CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	175	2.500	177.3	-109.6	75	125	11/22/2023
Magnesium		0.050	S	71.7	2.500	71.42	13.2	75	125	11/22/2023
Potassium		0.100		3.12	2.500	0.6259	99.8	75	125	11/22/2023
Sodium		0.050	S	72.9	2.500	73.61	-27.2	75	125	11/22/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214920		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23110002-037CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	174	2.500	177.3	-140.4	174.6	0.44	11/22/2023	
Magnesium		0.050	S	70.9	2.500	71.42	-21.4	71.75	1.21	11/22/2023	
Potassium		0.100		3.11	2.500	0.6259	99.2	3.120	0.44	11/22/2023	
Sodium		0.050	S	72.6	2.500	73.61	-42.4	72.93	0.52	11/22/2023	

Batch 214920		SampType: MS		Units mg/L				RPD Limit 20			
SampID: 23110002-107CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	102	2.500	97.19	192.0	75	125	11/22/2023	
Magnesium		0.050	S	43.9	2.500	40.54	133.7	75	125	11/22/2023	
Potassium		0.100		3.56	2.500	0.9476	104.4	75	125	11/22/2023	
Sodium		0.050	S	105	2.500	99.93	195.2	75	125	11/22/2023	

Batch 214920		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23110002-107CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100	S	97.6	2.500	97.19	18.4	102.0	4.35	11/22/2023	
Magnesium		0.050	S	42.1	2.500	40.54	62.0	43.89	4.17	11/22/2023	
Potassium		0.100		3.44	2.500	0.9476	99.6	3.557	3.41	11/22/2023	
Sodium		0.050	S	100	2.500	99.93	9.2	104.8	4.54	11/22/2023	

Batch 214922		SampType: MBLK		Units mg/L				RPD Limit 20			
SampID: MBLK-214922											
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	11/21/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/21/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/21/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/21/2023	

Batch 214922		SampType: LCS		Units mg/L				RPD Limit 20			
SampID: LCS-214922											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.57	2.500	0	102.9	85	115	11/21/2023	
Magnesium		0.0500		2.38	2.500	0	95.1	85	115	11/21/2023	
Potassium		0.100		2.53	2.500	0	101.3	85	115	11/21/2023	
Sodium		0.0500		2.49	2.500	0	99.8	85	115	11/21/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214922		SampType: MS		Units mg/L							
SampID: 23110002-085FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		5.00	S	51.4	2.500	48.24	126.4	75	125	11/27/2023	
Magnesium		0.050		2.11	2.500	0.07670	81.4	75	125	11/21/2023	
Potassium		5.00	S	293	2.500	285.4	293.2	75	125	11/27/2023	
Sodium		2.50	S	4450	2.500	4364	3620	75	125	11/27/2023	

Batch 214922		SampType: MSD		Units mg/L							
SampID: 23110002-085FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		5.00	S	52.2	2.500	48.24	159.4	51.40	1.59	11/27/2023	
Magnesium		0.050		2.17	2.500	0.07670	83.6	2.112	2.51	11/21/2023	
Potassium		5.00	S	293	2.500	285.4	312.6	292.8	0.17	11/27/2023	
Sodium		2.50	S	4480	2.500	4364	4720	4454	0.62	11/27/2023	

Batch 215174		SampType: MBLK		Units mg/L							
SampID: MBLK-215174											
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	11/29/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/29/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/29/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/29/2023	

Batch 215174		SampType: LCS		Units mg/L							
SampID: LCS-215174											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.67	2.500	0	106.8	85	115	11/29/2023	
Magnesium		0.0500		2.46	2.500	0	98.5	85	115	11/29/2023	
Potassium		0.100		2.62	2.500	0	105.0	85	115	11/29/2023	
Sodium		0.0500		2.67	2.500	0	106.8	85	115	11/29/2023	

Batch 215174		SampType: MS		Units mg/L							
SampID: 23110002-052BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100	S	165	2.500	170.4	-198.0	75	125	11/30/2023	
Magnesium		0.050	S	82.9	2.500	83.63	-31.0	75	125	11/30/2023	
Potassium		0.100		4.35	2.500	1.573	111.3	75	125	11/30/2023	
Sodium		0.050	S	62.9	2.500	63.63	-30.0	75	125	11/30/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 215174		SampType: MSD		Units mg/L				RPD Limit 20			Date
SampID: 23110002-052BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Calcium		0.100	S	164	2.500	170.4	-256.8	165.5	0.89	11/30/2023	
Magnesium		0.050	S	81.8	2.500	83.63	-73.0	82.85	1.28	11/30/2023	
Potassium		0.100		4.35	2.500	1.573	111.0	4.354	0.16	11/30/2023	
Sodium		0.050	S	62.9	2.500	63.63	-28.4	62.88	0.06	11/30/2023	

Batch 215175		SampType: MBLK		Units mg/L						Date
SampID: MBLK-215175										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/29/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/29/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/29/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/29/2023

Batch 215175		SampType: LCS		Units mg/L						Date
SampID: LCS-215175										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Calcium		0.100		2.80	2.500	0	112.1	85	115	11/29/2023
Magnesium		0.0500		2.56	2.500	0	102.3	85	115	11/29/2023
Potassium		0.100		2.79	2.500	0	111.6	85	115	11/29/2023
Sodium		0.0500		2.70	2.500	0	108.1	85	115	11/29/2023

Batch 215175		SampType: MS		Units mg/L						Date
SampID: 23110002-070BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Calcium		0.100	S	285	2.500	299.5	-561.2	75	125	11/29/2023
Magnesium		0.050	S	98.4	2.500	101.3	-117.6	75	125	11/29/2023
Potassium		0.100		6.39	2.500	3.763	105.0	75	125	11/29/2023
Sodium		0.050	S	432	2.500	461.4	-1168	75	125	11/29/2023

Batch 215175		SampType: MSD		Units mg/L				RPD Limit 20			Date
SampID: 23110002-070BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Calcium		0.100	S	300	2.500	299.5	39.6	285.5	5.13	11/29/2023	
Magnesium		0.050		104	2.500	101.3	106.5	98.38	5.54	11/29/2023	
Potassium		0.100		6.68	2.500	3.763	116.8	6.389	4.50	11/29/2023	
Sodium		0.050	S	455	2.500	461.4	-255.2	432.2	5.14	11/29/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 215175		SampType: MS		Units mg/L							Date Analyzed
SampID: 23110002-081BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100	S	110	2.500	110.0	3.2	75	125	11/29/2023	

Batch 215175		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23110002-081BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Calcium		0.100	S	114	2.500	110.0	179.6	110.1	3.93	11/29/2023		

Batch 215760		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-215760											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	12/12/2023	
Magnesium		0.050		< 0.050	0.0055	0	0	-100	100	12/11/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	12/11/2023	
Sodium		0.050		< 0.050	0.0180	0	0	-100	100	12/11/2023	

Batch 215760		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-215760											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		2.60	2.500	0	104.0	85	115	12/12/2023	
Magnesium		0.050		2.47	2.500	0	98.9	85	115	12/11/2023	
Potassium		0.100		2.86	2.500	0	114.3	85	115	12/11/2023	
Sodium		0.050		2.79	2.500	0	111.5	85	115	12/11/2023	

Batch 215760		SampType: MS		Units mg/L							Date Analyzed
SampID: 23120670-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100	S	125	2.500	121.0	142.0	75	125	12/12/2023	
Magnesium		0.0500	S	68.6	2.500	65.25	133.5	75	125	12/12/2023	

Batch 215760		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 23120670-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Calcium		0.100		123	2.500	121.0	95.6	124.5	0.94	12/12/2023		
Magnesium		0.0500		68.0	2.500	65.25	108.7	68.59	0.91	12/12/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214751		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-214751											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/16/2023	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/16/2023	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/16/2023	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/16/2023	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/16/2023	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/17/2023	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/16/2023	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/16/2023	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/16/2023	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/16/2023	

Batch 214751		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-214751											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		440	500.0	0	87.9	80	120	11/16/2023	
Arsenic		1.0		466	500.0	0	93.2	80	120	11/16/2023	
Barium		1.0		1780	2000	0	89.2	80	120	11/16/2023	
Boron		25.0		455	500.0	0	91.0	80	120	11/16/2023	
Cadmium		1.0		43.4	50.00	0	86.7	80	120	11/16/2023	
Chromium		1.5		191	200.0	0	95.6	80	120	11/17/2023	
Cobalt		1.0		489	500.0	0	97.7	80	120	11/17/2023	
Lead		1.0		442	500.0	0	88.5	80	120	11/16/2023	
Manganese		2.0		446	500.0	0	89.2	80	120	11/16/2023	
Zinc		15.0		459	500.0	0	91.8	80	120	11/17/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214751		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		459	500.0	1.172	91.6	75	125	11/16/2023	
Arsenic		1.0		478	500.0	0	95.6	75	125	11/16/2023	
Barium		1.0		1830	2000	27.79	90.1	75	125	11/16/2023	
Boron		25.0		453	500.0	9.288	88.7	75	125	11/16/2023	
Cadmium		1.0		44.9	50.00	0	89.8	75	125	11/16/2023	
Chromium		1.5		188	200.0	0	93.8	75	125	11/17/2023	
Cobalt		1.0		473	500.0	0	94.6	75	125	11/17/2023	
Lead		1.0		456	500.0	0	91.2	75	125	11/16/2023	
Manganese		2.0		464	500.0	0	92.9	75	125	11/16/2023	
Zinc		15.0		467	500.0	0	93.4	75	125	11/17/2023	

Batch 214751		SampType: MSD		Units µg/L							RPD Limit 20	Date Analyzed
SampID: 23110002-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		1.0		451	500.0	1.172	90.0	459.2	1.80	11/16/2023		
Arsenic		1.0		488	500.0	0	97.6	478.2	2.04	11/16/2023		
Barium		1.0		1830	2000	27.79	90.3	1830	0.23	11/16/2023		
Boron		25.0		474	500.0	9.288	92.9	453.0	4.48	11/16/2023		
Cadmium		1.0		44.0	50.00	0	88.1	44.89	1.92	11/16/2023		
Chromium		1.5		198	200.0	0	99.2	187.5	5.65	11/17/2023		
Cobalt		1.0		496	500.0	0	99.1	473.0	4.67	11/17/2023		
Lead		1.0		463	500.0	0	92.6	455.9	1.53	11/16/2023		
Manganese		2.0		456	500.0	0	91.2	464.5	1.87	11/16/2023		
Zinc		15.0		499	500.0	0	99.8	467.1	6.57	11/17/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214940 SampType: MBLK Units µg/L

SampleID: MBLK-214940

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/29/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/22/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/22/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/22/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/22/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/22/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/22/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/27/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/21/2023
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/21/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/21/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/21/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/21/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/21/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/22/2023
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/22/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/21/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/21/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214940 SampType: LCS Units µg/L

SampleID: LCS-214940

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		2110	2000	0	105.7	80	120	11/29/2023
Antimony		1.0		427	500.0	0	85.4	80	120	11/22/2023
Arsenic		1.0		459	500.0	0	91.9	80	120	11/22/2023
Barium		1.0		1860	2000	0	92.9	80	120	11/22/2023
Beryllium		1.0		44.4	50.00	0	88.8	80	120	11/22/2023
Boron		25.0		472	500.0	0	94.4	80	120	11/30/2023
Cadmium		1.0		44.5	50.00	0	88.9	80	120	11/22/2023
Chromium		1.5		202	200.0	0	100.8	80	120	11/27/2023
Cobalt		1.0		448	500.0	0	89.6	80	120	11/21/2023
Copper		1.0		227	250.0	0	90.7	80	120	11/21/2023
Iron		25.0		1950	2000	0	97.3	80	120	11/21/2023
Lead		1.0		457	500.0	0	91.5	80	120	11/21/2023
Manganese		2.0		500	500.0	0	100.0	80	120	11/21/2023
Nickel		1.0		460	500.0	0	92.0	80	120	11/21/2023
Selenium		1.0		441	500.0	0	88.2	80	120	11/22/2023
Silver		1.0		46.3	50.00	0	92.6	80	120	11/22/2023
Thallium		2.0		230	250.0	0	92.2	80	120	11/21/2023
Vanadium		5.0		499	500.0	0	99.9	80	120	11/27/2023
Zinc		15.0		453	500.0	0	90.7	80	120	11/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214940 SampType: MS

Units µg/L

SampleID: 23110002-090DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1900	2000	0	95.2	75	125	11/29/2023
Antimony		1.0		450	500.0	0	89.9	75	125	11/22/2023
Arsenic		1.0		468	500.0	0	93.5	75	125	11/22/2023
Barium		1.0		1890	2000	53.12	91.9	75	125	11/22/2023
Beryllium		1.0		45.8	50.00	0	91.6	75	125	11/22/2023
Boron		25.0		496	500.0	0	99.2	75	125	11/30/2023
Cadmium		1.0		44.6	50.00	0	89.3	75	125	11/22/2023
Chromium		1.5		193	200.0	1.015	96.0	75	125	11/28/2023
Cobalt		1.0		478	500.0	0	95.5	75	125	11/28/2023
Copper		1.0		220	250.0	0.5388	87.9	75	125	11/21/2023
Iron		25.0		1940	2000	0	97.2	75	125	11/21/2023
Lead		1.0		454	500.0	0	90.7	75	125	11/21/2023
Manganese		2.0		498	500.0	2.630	99.1	75	125	11/21/2023
Molybdenum		1.5		473	500.0	1.857	94.3	75	125	11/29/2023
Nickel		1.0		440	500.0	0	88.1	75	125	11/21/2023
Selenium		1.0		450	500.0	3.487	89.3	75	125	11/22/2023
Silver		1.0		46.2	50.00	0	92.4	75	125	11/22/2023
Thallium		2.0		207	250.0	0	82.7	75	125	11/21/2023
Vanadium		5.0		480	500.0	0	96.0	75	125	11/28/2023
Zinc		15.0		475	500.0	0	95.0	75	125	11/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214940		SampType: MSD		Units µg/L				RPD Limit 20		
SampID: 23110002-090DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		25.0		1790	2000	0	89.5	1905	6.26	11/29/2023
Antimony		1.0		463	500.0	0	92.6	449.6	2.96	11/22/2023
Arsenic		1.0		467	500.0	0	93.4	467.7	0.16	11/22/2023
Barium		1.0		1920	2000	53.12	93.1	1891	1.27	11/22/2023
Beryllium		1.0		43.2	50.00	0	86.4	45.79	5.82	11/22/2023
Boron		25.0		522	500.0	0	104.3	496.1	5.00	11/30/2023
Cadmium		1.0		44.5	50.00	0	89.1	44.63	0.21	11/22/2023
Chromium		1.5		197	200.0	1.015	97.9	193.0	1.99	11/28/2023
Cobalt		1.0		487	500.0	0	97.3	477.7	1.84	11/28/2023
Copper		1.0		214	250.0	0.5388	85.4	220.4	2.93	11/21/2023
Iron		25.0		1900	2000	0	95.0	1944	2.28	11/21/2023
Lead		1.0		469	500.0	0	93.8	453.7	3.30	11/21/2023
Manganese		2.0		491	500.0	2.630	97.6	498.0	1.46	11/21/2023
Molybdenum		1.5		463	500.0	1.857	92.3	473.3	2.17	11/29/2023
Nickel		1.0		433	500.0	0	86.5	440.4	1.79	11/21/2023
Selenium		1.0		449	500.0	3.487	89.1	449.7	0.13	11/22/2023
Silver		1.0		45.3	50.00	0	90.6	46.22	1.97	11/22/2023
Thallium		2.0		220	250.0	0	87.9	206.7	6.06	11/21/2023
Vanadium		5.0		492	500.0	0	98.3	480.0	2.38	11/28/2023
Zinc		15.0		449	500.0	0	89.7	475.0	5.71	11/21/2023

Batch 214952		SampType: MBLK		Units µg/L						Date Analyzed
SampID: MBLK-214952										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/21/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/21/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/21/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/21/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/21/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/27/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/21/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/21/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/21/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214952 SampType: LCS Units µg/L

SampID: LCS-214952

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		440	500.0	0	88.0	80	120	11/22/2023
Arsenic		1.0		493	500.0	0	98.6	80	120	11/21/2023
Barium		1.0		1920	2000	0	96.2	80	120	11/21/2023
Boron		25.0		456	500.0	0	91.2	80	120	11/21/2023
Cadmium		1.0		43.6	50.00	0	87.3	80	120	11/21/2023
Chromium		1.5		183	200.0	0	91.4	80	120	11/27/2023
Cobalt		1.0		445	500.0	0	88.9	80	120	11/21/2023
Lead		1.0		457	500.0	0	91.4	80	120	11/21/2023
Manganese		2.0		499	500.0	0	99.8	80	120	11/21/2023
Zinc		15.0		464	500.0	0	92.7	80	120	11/21/2023

Batch 214952 SampType: MS Units µg/L

SampID: 23110002-011CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		450	500.0	0	90.0	75	125	11/22/2023
Arsenic		1.0		498	500.0	0	99.7	75	125	11/21/2023
Barium		1.0		1930	2000	53.88	93.7	75	125	11/21/2023
Boron		25.0		491	500.0	17.61	94.7	75	125	11/21/2023
Cadmium		1.0		43.6	50.00	0	87.2	75	125	11/21/2023
Chromium		1.5		189	200.0	0	94.6	75	125	11/28/2023
Cobalt		1.0		461	500.0	0	92.2	75	125	11/28/2023
Lead		1.0		439	500.0	1.290	87.6	75	125	11/21/2023
Manganese		2.0		516	500.0	27.00	97.8	75	125	11/21/2023
Zinc		15.0		459	500.0	12.58	89.3	75	125	11/21/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214952		SampType: MSD		Units µg/L			RPD Limit 20			
SampID: 23110002-011CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		450	500.0	0	89.9	450.2	0.11	11/22/2023
Arsenic		1.0		513	500.0	0	102.7	498.4	2.96	11/21/2023
Barium		1.0		1990	2000	53.88	96.9	1927	3.36	11/21/2023
Boron		25.0		469	500.0	17.61	90.2	491.1	4.65	11/21/2023
Cadmium		1.0		44.0	50.00	0	88.0	43.59	0.89	11/21/2023
Chromium		1.5		195	200.0	0	97.6	189.2	3.08	11/28/2023
Cobalt		1.0		481	500.0	0	96.3	461.1	4.31	11/28/2023
Lead		1.0		469	500.0	1.290	93.6	439.2	6.65	11/21/2023
Manganese		2.0		532	500.0	27.00	101.0	515.8	3.07	11/21/2023
Zinc		15.0		472	500.0	12.58	91.9	458.9	2.82	11/21/2023

Batch 214954		SampType: MBLK		Units µg/L						
SampID: MBLK-214954										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/22/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/22/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/22/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/22/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/22/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/22/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/22/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/22/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/22/2023
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/22/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/22/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/22/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/22/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/22/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/22/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/22/2023
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/22/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/22/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/22/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/22/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214954 SampType: LCS Units µg/L

SampID: LCS-214954

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1850	2000	0	92.5	80	120	11/22/2023
Antimony		1.0		454	500.0	0	90.8	80	120	11/22/2023
Arsenic		1.0		457	500.0	0	91.5	80	120	11/22/2023
Barium		1.0		1900	2000	0	95.2	80	120	11/22/2023
Beryllium		1.0		46.0	50.00	0	91.9	80	120	11/22/2023
Boron		25.0		547	500.0	0	109.3	80	120	11/29/2023
Cadmium		1.0		45.7	50.00	0	91.3	80	120	11/22/2023
Chromium		1.5		181	200.0	0	90.7	80	120	11/22/2023
Cobalt		1.0		461	500.0	0	92.3	80	120	11/22/2023
Copper		1.0		226	250.0	0	90.4	80	120	11/22/2023
Iron		25.0		1750	2000	0	87.6	80	120	11/22/2023
Lead		1.0		471	500.0	0	94.3	80	120	11/22/2023
Manganese		2.0		459	500.0	0	91.8	80	120	11/22/2023
Molybdenum		1.5		443	500.0	0	88.5	80	120	11/22/2023
Nickel		1.0		458	500.0	0	91.7	80	120	11/22/2023
Selenium		1.0		430	500.0	0	86.1	80	120	11/22/2023
Silver		1.0		47.7	50.00	0	95.5	80	120	11/22/2023
Thallium		2.0		229	250.0	0	91.5	80	120	11/22/2023
Vanadium		5.0		452	500.0	0	90.4	80	120	11/22/2023
Zinc		15.0		452	500.0	0	90.4	80	120	11/22/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214954 SampType: MS

Units µg/L

SampleID: 23110002-025DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1740	2000	0	87.2	75	125	11/22/2023
Antimony		1.0		473	500.0	0	94.7	75	125	11/22/2023
Arsenic		1.0		457	500.0	1.271	91.1	75	125	11/22/2023
Barium		1.0		1870	2000	51.26	90.8	75	125	11/22/2023
Beryllium		1.0		46.9	50.00	0	93.8	75	125	11/22/2023
Boron		25.0		486	500.0	0	97.2	75	125	11/29/2023
Cadmium		1.0		43.9	50.00	0	87.8	75	125	11/22/2023
Chromium		1.5		174	200.0	0	86.8	75	125	11/22/2023
Cobalt		1.0		442	500.0	0.1995	88.4	75	125	11/22/2023
Copper		1.0		211	250.0	0	84.6	75	125	11/22/2023
Iron		25.0		2000	2000	308.8	84.8	75	125	11/22/2023
Lead		1.0		455	500.0	0	91.0	75	125	11/22/2023
Manganese		2.0		581	500.0	156.1	84.9	75	125	11/22/2023
Molybdenum		1.5		435	500.0	0	87.1	75	125	11/22/2023
Nickel		1.0		432	500.0	0	86.3	75	125	11/22/2023
Selenium		1.0		402	500.0	0	80.3	75	125	11/22/2023
Silver		1.0		45.1	50.00	0	90.3	75	125	11/22/2023
Thallium		2.0		218	250.0	0	87.3	75	125	11/22/2023
Vanadium		5.0		438	500.0	0	87.6	75	125	11/22/2023
Zinc		15.0		447	500.0	0	89.4	75	125	11/23/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	SampType:	MSD	Units µg/L							RPD Limit	
SampleID: 23110002-025DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		25.0		1720	2000	0	85.8	1744	1.68	11/22/2023	
Antimony		1.0		475	500.0	0	95.1	473.3	0.44	11/22/2023	
Arsenic		1.0		455	500.0	1.271	90.8	456.6	0.26	11/22/2023	
Barium		1.0		1850	2000	51.26	90.0	1867	0.78	11/22/2023	
Beryllium		1.0		44.3	50.00	0	88.7	46.92	5.67	11/22/2023	
Boron		25.0		507	500.0	0	101.3	486.0	4.17	11/29/2023	
Cadmium		1.0		43.9	50.00	0	87.8	43.88	0.00	11/22/2023	
Chromium		1.5		170	200.0	0	85.1	173.5	1.88	11/22/2023	
Cobalt		1.0		436	500.0	0.1995	87.3	442.1	1.30	11/22/2023	
Copper		1.0		208	250.0	0	83.0	211.4	1.88	11/22/2023	
Iron		25.0		2030	2000	308.8	85.8	2004	1.07	11/22/2023	
Lead		1.0		454	500.0	0	90.8	454.9	0.23	11/22/2023	
Manganese		2.0		574	500.0	156.1	83.7	580.9	1.12	11/22/2023	
Molybdenum		1.5		431	500.0	0	86.2	435.3	0.99	11/22/2023	
Nickel		1.0		425	500.0	0	84.9	431.7	1.65	11/22/2023	
Selenium		1.0		402	500.0	0	80.5	401.6	0.20	11/22/2023	
Silver		1.0		45.5	50.00	0	91.1	45.14	0.89	11/22/2023	
Thallium		2.0		218	250.0	0	87.3	218.4	0.08	11/22/2023	
Vanadium		5.0		433	500.0	0	86.5	438.2	1.28	11/22/2023	
Zinc		15.0		410	500.0	0	82.0	447.0	8.58	11/23/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214954 SampType: MS

Units µg/L

SampleID: 23110002-037DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1850	2000	0	92.7	75	125	11/29/2023
Antimony		1.0		493	500.0	0	98.6	75	125	11/29/2023
Arsenic		1.0		481	500.0	0	96.1	75	125	11/28/2023
Barium		1.0		1950	2000	83.65	93.2	75	125	11/28/2023
Beryllium		1.0		41.1	50.00	0	82.2	75	125	11/28/2023
Boron		25.0		564	500.0	32.08	106.5	75	125	11/29/2023
Cadmium		1.0		47.7	50.00	0	95.4	75	125	11/28/2023
Chromium		1.5		181	200.0	0	90.3	75	125	11/28/2023
Cobalt		1.0		453	500.0	0.1871	90.5	75	125	11/28/2023
Copper		1.0		217	250.0	0.5466	86.6	75	125	11/28/2023
Iron		25.0		2130	2000	256.3	93.7	75	125	11/28/2023
Lead		1.0		457	500.0	0	91.3	75	125	11/28/2023
Manganese		2.0		827	500.0	383.7	88.6	75	125	11/28/2023
Molybdenum		1.5		442	500.0	0	88.4	75	125	11/28/2023
Nickel		1.0		444	500.0	0	88.8	75	125	11/28/2023
Selenium		1.0		457	500.0	0	91.4	75	125	11/28/2023
Silver		1.0		46.4	50.00	0	92.7	75	125	11/28/2023
Thallium		2.0		218	250.0	0	87.1	75	125	11/28/2023
Vanadium		5.0		455	500.0	0	91.1	75	125	11/28/2023
Zinc		15.0		443	500.0	0	88.6	75	125	11/28/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	SampType:	MSD	Units µg/L							RPD Limit	
SampID: 23110002-037DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		25.0		2020	2000	0	101.1	1854	8.62	11/29/2023	
Antimony		1.0		486	500.0	0	97.2	492.9	1.39	11/29/2023	
Arsenic		1.0		518	500.0	0	103.6	480.7	7.48	11/28/2023	
Barium		1.0		1980	2000	83.65	94.8	1947	1.62	11/28/2023	
Beryllium		1.0		42.7	50.00	0	85.4	41.10	3.85	11/28/2023	
Boron		25.0		519	500.0	32.08	97.5	564.5	8.30	11/29/2023	
Cadmium		1.0		51.0	50.00	0	102.0	47.70	6.73	11/28/2023	
Chromium		1.5		189	200.0	0	94.7	180.5	4.84	11/28/2023	
Cobalt		1.0		482	500.0	0.1871	96.4	452.9	6.25	11/28/2023	
Copper		1.0		231	250.0	0.5466	92.1	217.1	6.11	11/28/2023	
Iron		25.0		2250	2000	256.3	99.7	2130	5.48	11/28/2023	
Lead		1.0		462	500.0	0	92.3	456.7	1.07	11/28/2023	
Manganese		2.0		876	500.0	383.7	98.5	826.7	5.81	11/28/2023	
Molybdenum		1.5		485	500.0	0	97.1	442.2	9.32	11/28/2023	
Nickel		1.0		472	500.0	0	94.5	443.9	6.23	11/28/2023	
Selenium		1.0		497	500.0	0	99.3	456.8	8.38	11/28/2023	
Silver		1.0		50.7	50.00	0	101.4	46.37	8.93	11/28/2023	
Thallium		2.0		234	250.0	0	93.4	217.8	6.97	11/28/2023	
Vanadium		5.0		480	500.0	0	96.1	455.3	5.35	11/28/2023	
Zinc		15.0		473	500.0	0	94.6	442.8	6.59	11/28/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214955 SampType: MBLK Units µg/L

SampID: MBLK-214955

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/29/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/21/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/21/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/27/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/21/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/21/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/29/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/21/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/27/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/21/2023
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/29/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/27/2023
Lead		1.0	S	43.2	0.6000	0	7196	-100	100	11/21/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/27/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/29/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/27/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/21/2023
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/21/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/21/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/21/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/27/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214955		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-214955											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		2060	2000	0	103.2	80	120	11/29/2023	
Antimony		1.0		450	500.0	0	90.0	80	120	11/22/2023	
Arsenic		1.0		511	500.0	0	102.3	80	120	11/21/2023	
Barium		1.0		1900	2000	0	94.8	80	120	11/27/2023	
Beryllium		1.0		42.6	50.00	0	85.2	80	120	11/21/2023	
Boron		25.0		454	500.0	0	90.7	80	120	11/21/2023	
Boron		25.0		503	500.0	0	100.6	80	120	11/29/2023	
Cadmium		1.0		43.8	50.00	0	87.5	80	120	11/21/2023	
Chromium		1.5		186	200.0	0	92.9	80	120	11/27/2023	
Cobalt		1.0		466	500.0	0	93.2	80	120	11/21/2023	
Copper		1.0		236	250.0	0	94.5	80	120	11/29/2023	
Iron		25.0		1900	2000	0	95.0	80	120	11/27/2023	
Lead		1.0	B	451	500.0	0	90.2	80	120	11/21/2023	
Manganese		2.0		477	500.0	0	95.5	80	120	11/27/2023	
Molybdenum		1.5		461	500.0	0	92.2	80	120	11/29/2023	
Nickel		1.0		470	500.0	0	94.0	80	120	11/27/2023	
Selenium		1.0		469	500.0	0	93.8	80	120	11/22/2023	
Silver		1.0		43.2	50.00	0	86.4	80	120	11/21/2023	
Thallium		2.0		225	250.0	0	89.8	80	120	11/21/2023	
Vanadium		5.0		455	500.0	0	90.9	80	120	11/27/2023	
Zinc		15.0		469	500.0	0	93.8	80	120	11/27/2023	

Batch 214955		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-097CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		457	500.0	0	91.4	75	125	11/22/2023	
Arsenic		1.0		518	500.0	0.5026	103.6	75	125	11/21/2023	
Barium		1.0		2020	2000	69.90	97.3	75	125	11/28/2023	
Boron		25.0		465	500.0	24.63	88.1	75	125	11/21/2023	
Cadmium		1.0		45.2	50.00	0	90.5	75	125	11/21/2023	
Chromium		1.5		194	200.0	0	97.0	75	125	11/28/2023	
Cobalt		1.0		441	500.0	0	88.2	75	125	11/21/2023	
Lead		1.0	B	459	500.0	0	91.8	75	125	11/21/2023	
Manganese		2.0		522	500.0	35.72	97.2	75	125	11/28/2023	
Zinc		15.0		477	500.0	0	95.4	75	125	11/28/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 214955		SampType: MSD		Units µg/L				RPD Limit 20			Date Analyzed
SampID: 23110002-097CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		1.0		442	500.0	0	88.3	456.8	3.35	11/22/2023	
Arsenic		1.0		504	500.0	0.5026	100.7	518.4	2.86	11/21/2023	
Barium		1.0		2060	2000	69.90	99.7	2016	2.38	11/28/2023	
Boron		25.0		511	500.0	24.63	97.2	465.3	9.26	11/21/2023	
Cadmium		1.0		43.5	50.00	0	87.0	45.24	3.93	11/21/2023	
Chromium		1.5		203	200.0	0	101.3	193.9	4.36	11/28/2023	
Cobalt		1.0		438	500.0	0	87.6	441.1	0.73	11/21/2023	
Lead		1.0	B	469	500.0	0	93.7	459.1	2.05	11/21/2023	
Manganese		2.0		545	500.0	35.72	101.8	521.6	4.35	11/28/2023	
Zinc		15.0		522	500.0	0	104.3	476.8	8.98	11/28/2023	

Batch 214955		SampType: MS		Units µg/L				RPD Limit 20		Date Analyzed
SampID: 23110394-004CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		488	500.0	0.9403	97.4	75	125	11/22/2023
Lead		1.0	B	477	500.0	0	95.4	75	125	11/21/2023

Batch 214955		SampType: MSD		Units µg/L				RPD Limit 20			Date Analyzed
SampID: 23110394-004CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Arsenic		1.0		494	500.0	0.9403	98.5	488.0	1.15	11/22/2023	
Lead		1.0	B	467	500.0	0	93.3	476.8	2.14	11/21/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 215051 SampType: MBLK Units µg/L

SampleID: MBLK-215051

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/29/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/27/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/27/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/27/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/27/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/27/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/27/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/29/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/29/2023
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/27/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/30/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/27/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/30/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/27/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/27/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/27/2023
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/27/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/27/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/27/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/27/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 215051		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-215051											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		2190	2000	0	109.6	80	120	11/29/2023	
Antimony		1.0		443	500.0	0	88.7	80	120	11/27/2023	
Arsenic		1.0		465	500.0	0	93.1	80	120	11/27/2023	
Barium		1.0		1870	2000	0	93.6	80	120	11/27/2023	
Beryllium		1.0		47.2	50.00	0	94.4	80	120	11/27/2023	
Boron		25.0		458	500.0	0	91.6	80	120	11/27/2023	
Cadmium		1.0		45.9	50.00	0	91.8	80	120	11/27/2023	
Chromium		1.5		191	200.0	0	95.7	80	120	11/29/2023	
Cobalt		1.0		471	500.0	0	94.2	80	120	11/29/2023	
Copper		1.0		237	250.0	0	94.7	80	120	11/27/2023	
Iron		25.0		2130	2000	0	106.3	80	120	11/30/2023	
Lead		1.0		446	500.0	0	89.2	80	120	11/27/2023	
Manganese		2.0		472	500.0	0	94.4	80	120	11/30/2023	
Molybdenum		1.5		455	500.0	0	90.9	80	120	11/29/2023	
Nickel		1.0		472	500.0	0	94.4	80	120	11/27/2023	
Selenium		1.0		451	500.0	0	90.2	80	120	11/27/2023	
Silver		1.0		46.2	50.00	0	92.3	80	120	11/27/2023	
Thallium		2.0		238	250.0	0	95.1	80	120	11/27/2023	
Vanadium		5.0		463	500.0	0	92.7	80	120	11/27/2023	
Zinc		15.0		455	500.0	0	91.1	80	120	11/27/2023	

Batch 215051		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-074CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		1820	2000	13.89	90.4	75	125	11/29/2023	
Arsenic		1.0		477	500.0	1.320	95.1	75	125	11/27/2023	
Boron		25.0	S	4160	500.0	5028	-174.1	75	125	11/27/2023	
Copper		1.0		215	250.0	0	86.1	75	125	11/27/2023	
Iron		500	S	91900	2000	95180	-163.6	75	125	12/04/2023	
Lead		1.0		459	500.0	0	91.8	75	125	11/27/2023	
Manganese		40.0	S	23900	500.0	24540	-126.0	75	125	12/04/2023	
Nickel		1.0		478	500.0	65.84	82.4	75	125	11/27/2023	
Silver		1.0		40.4	50.00	0	80.7	75	125	11/27/2023	
Vanadium		5.0		455	500.0	0	91.0	75	125	11/27/2023	
Zinc		15.0		461	500.0	26.31	87.0	75	125	11/27/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 215051		SampType: MSD		Units µg/L				RPD Limit 20			Date Analyzed
SampID: 23110002-074CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum		25.0		1800	2000	13.89	89.2	1822	1.30	11/29/2023	
Arsenic		1.0		463	500.0	1.320	92.2	476.8	3.03	11/27/2023	
Boron		25.0	S	4000	500.0	5028	-205.0	4157	3.79	11/27/2023	
Copper		1.0		211	250.0	0	84.5	215.3	1.89	11/27/2023	
Iron		500	S	92000	2000	95180	-159.7	91910	0.08	12/04/2023	
Lead		1.0		448	500.0	0	89.6	459.2	2.53	11/27/2023	
Manganese		40.0	S	24000	500.0	24540	-104.1	23910	0.46	12/04/2023	
Nickel		1.0		478	500.0	65.84	82.4	478.0	0.01	11/27/2023	
Silver		1.0		41.3	50.00	0	82.6	40.37	2.27	11/27/2023	
Vanadium		5.0		448	500.0	0	89.7	455.0	1.46	11/27/2023	
Zinc		15.0		443	500.0	26.31	83.4	461.3	4.03	11/27/2023	

Batch 215051		SampType: MS		Units µg/L				RPD Limit 20		Date Analyzed
SampID: 23111606-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		467	500.0	2.023	93.0	75	125	11/27/2023
Cadmium		1.0		43.5	50.00	0	87.0	75	125	11/27/2023
Chromium		1.5		201	200.0	1.371	99.9	75	125	11/29/2023
Copper		1.0		216	250.0	1.112	86.1	75	125	11/27/2023
Manganese		2.0		571	500.0	115.8	91.1	75	125	11/30/2023

Batch 215051		SampType: MSD		Units µg/L				RPD Limit 20			Date Analyzed
SampID: 23111606-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Arsenic		1.0		453	500.0	2.023	90.3	466.9	2.94	11/27/2023	
Cadmium		1.0		42.5	50.00	0	85.0	43.51	2.31	11/27/2023	
Chromium		1.5		186	200.0	1.371	92.2	201.2	7.94	11/29/2023	
Copper		1.0		211	250.0	1.112	83.9	216.5	2.59	11/27/2023	
Manganese		2.0		572	500.0	115.8	91.3	571.2	0.18	11/30/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 215761		SampType: MBLK		Units µg/L						
SampID: MBLK-215761										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	12/14/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	12/14/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	12/12/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/14/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	12/14/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	12/14/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	12/14/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	12/12/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	12/14/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	12/14/2023

Batch 215761		SampType: LCS		Units µg/L						
SampID: LCS-215761										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		483	500.0	0	96.6	80	120	12/14/2023
Arsenic		1.0		521	500.0	0	104.2	80	120	12/14/2023
Boron		25.0		453	500.0	0	90.5	80	120	12/14/2023
Cadmium		1.0		48.3	50.00	0	96.6	80	120	12/14/2023
Chromium		1.5		193	200.0	0	96.4	80	120	12/14/2023
Cobalt		1.0		477	500.0	0	95.5	80	120	12/14/2023
Manganese		2.0		498	500.0	0	99.7	80	120	12/14/2023
Zinc		15.0		446	500.0	0	89.2	80	120	12/14/2023

Batch 216240		SampType: MBLK		Units µg/L						
SampID: MBLK-216240										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/21/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	12/21/2023

Batch 216240		SampType: LCS		Units µg/L						
SampID: LCS-216240										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		408	500.0	0	81.5	80	120	12/21/2023
Zinc		15.0		422	500.0	0	84.4	80	120	12/21/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 216240		SampType: DUP		Units µg/L				RPD Limit 20			
SampID: 23110002-036DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron		25.0		997				968.1	2.90	12/22/2023	

Batch 216240		SampType: DUP		Units µg/L				RPD Limit 20			
SampID: 23110002-049DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron		25.0		7060				6773	4.20	12/22/2023	

Batch 216240		SampType: DUP		Units µg/L				RPD Limit 20			
SampID: 23110002-105DDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron		25.0		1340				1208	10.45	12/22/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214894 SampType: MBLK Units µg/L

SampID: MBLK-214894

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/21/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/20/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/20/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/20/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/21/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/22/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/20/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/20/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/20/2023
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/20/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/21/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/20/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/22/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/20/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/20/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/20/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/20/2023
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/20/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/20/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/20/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214894 SampType: LCS Units µg/L

SampID: LCS-214894

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1980	2000	0	99.0	80	120	11/21/2023
Antimony		1.0		543	500.0	0	108.7	80	120	11/20/2023
Arsenic		1.0		560	500.0	0	112.0	80	120	11/20/2023
Barium		1.0		2130	2000	0	106.6	80	120	11/20/2023
Beryllium		1.0		48.9	50.00	0	97.8	80	120	11/21/2023
Boron		25.0		473	500.0	0	94.6	80	120	11/21/2023
Cadmium		1.0		53.7	50.00	0	107.4	80	120	11/20/2023
Chromium		1.5		218	200.0	0	109.1	80	120	11/20/2023
Cobalt		1.0		568	500.0	0	113.6	80	120	11/20/2023
Copper		1.0		276	250.0	0	110.3	80	120	11/20/2023
Iron		25.0		2020	2000	0	101.2	80	120	11/21/2023
Lead		1.0		539	500.0	0	107.7	80	120	11/20/2023
Lithium	*	3.0		514	500.0	0	102.7	80	120	11/21/2023
Manganese		2.0		533	500.0	0	106.6	80	120	11/20/2023
Molybdenum		1.5		530	500.0	0	106.1	80	120	11/20/2023
Nickel		1.0		557	500.0	0	111.3	80	120	11/20/2023
Selenium		1.0		517	500.0	0	103.5	80	120	11/20/2023
Silver		1.0		48.4	50.00	0	96.7	80	120	11/20/2023
Thallium		2.0		254	250.0	0	101.4	80	120	11/20/2023
Vanadium		5.0		538	500.0	0	107.5	80	120	11/20/2023
Zinc		15.0		496	500.0	0	99.2	80	120	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214894 SampType: MS Units µg/L

SampleID: 23110002-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		2720	2000	579.0	107.1	75	125	11/21/2023
Antimony		1.0		573	500.0	0	114.7	75	125	11/20/2023
Arsenic		1.0		577	500.0	0.6263	115.4	75	125	11/20/2023
Barium		1.0		2240	2000	68.23	108.6	75	125	11/20/2023
Beryllium		1.0		52.8	50.00	0	105.7	75	125	11/21/2023
Boron		25.0		541	500.0	11.55	106.0	75	125	11/22/2023
Cadmium		1.0		55.0	50.00	0	110.0	75	125	11/20/2023
Chromium		1.5		221	200.0	2.530	109.1	75	125	11/20/2023
Cobalt		1.0		565	500.0	0.3390	112.9	75	125	11/20/2023
Copper		1.0		272	250.0	1.353	108.1	75	125	11/20/2023
Iron		25.0		2680	2000	638.1	102.0	75	125	11/21/2023
Lead		1.0		564	500.0	0	112.9	75	125	11/20/2023
Manganese		2.0		579	500.0	44.75	106.9	75	125	11/20/2023
Molybdenum		1.5		556	500.0	0.7084	111.1	75	125	11/20/2023
Nickel		1.0		542	500.0	1.553	108.0	75	125	11/20/2023
Selenium		1.0		535	500.0	1.510	106.7	75	125	11/20/2023
Silver		1.0		49.0	50.00	0	98.1	75	125	11/20/2023
Thallium		2.0		273	250.0	0	109.1	75	125	11/20/2023
Vanadium		5.0		547	500.0	0	109.4	75	125	11/20/2023
Zinc		15.0		506	500.0	0	101.2	75	125	11/20/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	SampType	MSD	Units µg/L							RPD Limit	Date Analyzed
SampID: 23110002-002CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Aluminum		25.0		2600	2000	579.0	101.2	2722	4.42	11/21/2023	
Antimony		1.0		552	500.0	0	110.5	573.5	3.76	11/20/2023	
Arsenic		1.0		560	500.0	0.6263	111.8	577.5	3.16	11/20/2023	
Barium		1.0		2170	2000	68.23	105.3	2239	2.94	11/20/2023	
Beryllium		1.0		51.7	50.00	0	103.3	52.84	2.24	11/21/2023	
Boron		25.0		551	500.0	11.55	108.0	541.4	1.83	11/22/2023	
Cadmium		1.0		53.5	50.00	0	106.9	54.99	2.82	11/20/2023	
Chromium		1.5		215	200.0	2.530	106.0	220.8	2.87	11/20/2023	
Cobalt		1.0		536	500.0	0.3390	107.1	565.1	5.27	11/20/2023	
Copper		1.0		261	250.0	1.353	103.9	271.5	3.94	11/20/2023	
Iron		25.0		2560	2000	638.1	95.9	2678	4.68	11/21/2023	
Lead		1.0		539	500.0	0	107.8	564.5	4.65	11/20/2023	
Manganese		2.0		559	500.0	44.75	102.8	579.4	3.64	11/20/2023	
Molybdenum		1.5		536	500.0	0.7084	107.1	556.3	3.70	11/20/2023	
Nickel		1.0		529	500.0	1.553	105.4	541.8	2.46	11/20/2023	
Selenium		1.0		516	500.0	1.510	102.9	535.1	3.68	11/20/2023	
Silver		1.0		47.0	50.00	0	93.9	49.03	4.34	11/20/2023	
Thallium		2.0		261	250.0	0	104.4	272.8	4.39	11/20/2023	
Vanadium		5.0		530	500.0	0	105.9	546.9	3.21	11/20/2023	
Zinc		15.0		491	500.0	0	98.3	506.1	2.95	11/20/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214894 SampType: MS Units µg/L

SampleID: 23110002-025CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1990	2000	56.37	96.6	75	125	11/21/2023
Antimony		1.0		582	500.0	0	116.3	75	125	11/20/2023
Arsenic		1.0		545	500.0	1.621	108.7	75	125	11/20/2023
Barium		1.0		2220	2000	53.41	108.4	75	125	11/20/2023
Beryllium		1.0		52.6	50.00	0	105.2	75	125	11/21/2023
Boron		25.0		510	500.0	0	102.0	75	125	11/22/2023
Cadmium		1.0		55.5	50.00	0	111.0	75	125	11/20/2023
Chromium		1.5		205	200.0	0	102.7	75	125	11/20/2023
Cobalt		1.0		526	500.0	0.2304	105.1	75	125	11/20/2023
Copper		1.0		255	250.0	0.7009	101.6	75	125	11/20/2023
Iron		25.0		2390	2000	461.5	96.3	75	125	11/21/2023
Lead		1.0		547	500.0	0	109.5	75	125	11/20/2023
Lithium	*	3.0		517	500.0	2.770	102.9	75	125	11/22/2023
Manganese		2.0		719	500.0	229.8	97.8	75	125	11/20/2023
Molybdenum		1.5		534	500.0	0	106.9	75	125	11/20/2023
Nickel		1.0		511	500.0	1.073	102.1	75	125	11/20/2023
Selenium		1.0		491	500.0	0	98.1	75	125	11/20/2023
Silver		1.0		48.7	50.00	0	97.4	75	125	11/20/2023
Thallium		2.0		266	250.0	0	106.3	75	125	11/20/2023
Vanadium		5.0		512	500.0	0	102.4	75	125	11/20/2023
Zinc		15.0		475	500.0	0	94.9	75	125	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	SampType:	MSD	Units µg/L				RPD Limit 20				Date Analyzed
SampID: 23110002-025CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Aluminum		25.0		2000	2000	56.37	97.2	1988	0.60	11/21/2023	
Antimony		1.0		560	500.0	0	112.1	581.6	3.71	11/20/2023	
Arsenic		1.0		543	500.0	1.621	108.3	545.3	0.42	11/20/2023	
Barium		1.0		2150	2000	53.41	104.9	2221	3.18	11/20/2023	
Beryllium		1.0		51.5	50.00	0	103.1	52.61	2.07	11/21/2023	
Boron		25.0		529	500.0	0	105.8	510.0	3.66	11/22/2023	
Cadmium		1.0		53.0	50.00	0	106.0	55.48	4.58	11/20/2023	
Chromium		1.5		201	200.0	0	100.7	205.4	1.95	11/20/2023	
Cobalt		1.0		513	500.0	0.2304	102.5	525.5	2.50	11/20/2023	
Copper		1.0		248	250.0	0.7009	98.8	254.6	2.73	11/20/2023	
Iron		25.0		2460	2000	461.5	99.7	2388	2.79	11/21/2023	
Lead		1.0		540	500.0	0	108.0	547.3	1.38	11/20/2023	
Lithium	*	3.0		528	500.0	2.770	105.0	517.4	1.94	11/22/2023	
Manganese		2.0		726	500.0	229.8	99.3	719.0	1.00	11/20/2023	
Molybdenum		1.5		525	500.0	0	105.0	534.3	1.78	11/20/2023	
Nickel		1.0		501	500.0	1.073	100.1	511.3	1.97	11/20/2023	
Selenium		1.0		478	500.0	0	95.7	490.6	2.54	11/20/2023	
Silver		1.0		47.3	50.00	0	94.6	48.72	2.97	11/20/2023	
Thallium		2.0		263	250.0	0	105.2	265.8	1.07	11/20/2023	
Vanadium		5.0		500	500.0	0	99.9	512.2	2.47	11/20/2023	
Zinc		15.0		464	500.0	0	92.8	474.5	2.24	11/20/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214896		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-214896											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/30/2023	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/30/2023	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/30/2023	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	12/01/2023	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/30/2023	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	12/01/2023	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/30/2023	
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/30/2023	
Iron		25.0		< 25.0	11.50	0	0	-100	100	12/01/2023	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/30/2023	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/30/2023	
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/30/2023	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/30/2023	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/30/2023	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/30/2023	

Batch 214896		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-214896											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		567	500.0	0	113.5	80	120	11/30/2023	
Arsenic		1.0		565	500.0	0	112.9	80	120	11/30/2023	
Barium		1.0		2240	2000	0	112.2	80	120	11/30/2023	
Beryllium		1.0		55.8	50.00	0	111.6	80	120	12/01/2023	
Cadmium		1.0		54.8	50.00	0	109.7	80	120	11/30/2023	
Chromium		1.5		220	200.0	0	109.8	80	120	12/01/2023	
Cobalt		1.0		539	500.0	0	107.8	80	120	11/30/2023	
Copper		1.0		271	250.0	0	108.5	80	120	11/30/2023	
Iron		25.0		2200	2000	0	110.0	80	120	12/01/2023	
Nickel		1.0		569	500.0	0	113.8	80	120	11/30/2023	
Selenium		1.0		535	500.0	0	106.9	80	120	11/30/2023	
Silver		1.0		57.5	50.00	0	114.9	80	120	11/30/2023	
Thallium		2.0		277	250.0	0	110.6	80	120	11/30/2023	
Vanadium		5.0		539	500.0	0	107.9	80	120	11/30/2023	
Zinc		15.0		518	500.0	0	103.6	80	120	11/30/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214896 SampType: MS Units µg/L

SampID: 23110002-107CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		25.0		5700	2000	3341	117.7	75	125	12/01/2023

Batch 214896 SampType: MSD Units µg/L

SampID: 23110002-107CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		25.0		5490	2000	3341	107.2	5695	3.76	12/01/2023

Batch 214904 SampType: MBLK Units µg/L

SampID: MBLK-214904

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/21/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/20/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/20/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/20/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/21/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/22/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/20/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/20/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/20/2023
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/20/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/21/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/20/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/22/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/20/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/20/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/20/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/20/2023
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/20/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/20/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/20/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214904 SampType: LCS Units µg/L

SampID: LCS-214904

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1960	2000	0	98.1	80	120	11/21/2023
Antimony		1.0		556	500.0	0	111.2	80	120	11/20/2023
Arsenic		1.0		568	500.0	0	113.5	80	120	11/20/2023
Barium		1.0		2140	2000	0	107.2	80	120	11/20/2023
Beryllium		1.0		49.9	50.00	0	99.9	80	120	11/21/2023
Boron		25.0		507	500.0	0	101.5	80	120	11/27/2023
Cadmium		1.0		53.8	50.00	0	107.7	80	120	11/20/2023
Chromium		1.5		217	200.0	0	108.3	80	120	11/20/2023
Cobalt		1.0		559	500.0	0	111.9	80	120	11/20/2023
Copper		1.0		276	250.0	0	110.5	80	120	11/20/2023
Iron		25.0		1910	2000	0	95.6	80	120	11/21/2023
Lead		1.0		544	500.0	0	108.7	80	120	11/20/2023
Lithium	*	3.0		541	500.0	0	108.2	80	120	11/22/2023
Manganese		2.0		542	500.0	0	108.5	80	120	11/20/2023
Molybdenum		1.5		529	500.0	0	105.8	80	120	11/20/2023
Nickel		1.0		554	500.0	0	110.7	80	120	11/20/2023
Selenium		1.0		525	500.0	0	105.0	80	120	11/20/2023
Silver		1.0		49.0	50.00	0	98.1	80	120	11/20/2023
Thallium		2.0		262	250.0	0	104.8	80	120	11/20/2023
Vanadium		5.0		533	500.0	0	106.7	80	120	11/20/2023
Zinc		15.0		505	500.0	0	101.1	80	120	11/20/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214920 SampType: MBLK Units µg/L

SampID: MBLK-214920

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/21/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/21/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/21/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/21/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/21/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/22/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/21/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/21/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/21/2023
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/21/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/21/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/21/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/22/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/21/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/21/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/21/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/21/2023
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/21/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/21/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/21/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214920 SampType: LCS Units µg/L

SampID: LCS-214920

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1970	2000	0	98.4	80	120	11/21/2023
Antimony		1.0		529	500.0	0	105.9	80	120	11/21/2023
Arsenic		1.0		496	500.0	0	99.1	80	120	11/21/2023
Barium		1.0		2080	2000	0	104.1	80	120	11/21/2023
Beryllium		1.0		50.8	50.00	0	101.7	80	120	11/21/2023
Boron		25.0		521	500.0	0	104.2	80	120	11/22/2023
Cadmium		1.0		50.2	50.00	0	100.4	80	120	11/21/2023
Chromium		1.5		198	200.0	0	99.2	80	120	11/21/2023
Cobalt		1.0		499	500.0	0	99.8	80	120	11/21/2023
Copper		1.0		246	250.0	0	98.3	80	120	11/21/2023
Iron		25.0		1910	2000	0	95.5	80	120	11/21/2023
Lead		1.0		520	500.0	0	104.0	80	120	11/21/2023
Lithium	*	3.0		537	500.0	0	107.3	80	120	11/22/2023
Manganese		2.0		502	500.0	0	100.4	80	120	11/21/2023
Molybdenum		1.5		488	500.0	0	97.6	80	120	11/21/2023
Nickel		1.0		502	500.0	0	100.4	80	120	11/21/2023
Selenium		1.0		471	500.0	0	94.2	80	120	11/21/2023
Silver		1.0		52.9	50.00	0	105.8	80	120	11/21/2023
Thallium		2.0		249	250.0	0	99.6	80	120	11/21/2023
Vanadium		5.0		495	500.0	0	99.0	80	120	11/21/2023
Zinc		15.0		521	500.0	0	104.1	80	120	11/21/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214920 SampType: MS Units µg/L

SampleID: 23110002-037CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1970	2000	84.12	94.4	75	125	11/22/2023
Antimony		1.0		550	500.0	0	110.0	75	125	11/22/2023
Arsenic		1.0		511	500.0	0.4772	102.1	75	125	11/22/2023
Barium		1.0		2160	2000	127.3	101.5	75	125	11/22/2023
Beryllium		1.0		51.9	50.00	0	103.7	75	125	11/22/2023
Boron		25.0		540	500.0	15.05	105.0	75	125	11/23/2023
Cadmium		1.0		50.4	50.00	0	100.8	75	125	11/22/2023
Chromium		1.5		192	200.0	0	95.9	75	125	11/22/2023
Cobalt		1.0		481	500.0	0.5068	96.2	75	125	11/22/2023
Copper		1.0		233	250.0	0.7327	93.0	75	125	11/22/2023
Iron		25.0		2590	2000	985.0	80.2	75	125	11/22/2023
Lead		1.0		517	500.0	0	103.3	75	125	11/22/2023
Lithium	*	3.0		543	500.0	3.483	107.9	75	125	11/23/2023
Manganese		2.0		943	500.0	409.6	106.7	75	125	11/23/2023
Molybdenum		1.5		501	500.0	0	100.2	75	125	11/22/2023
Nickel		1.0		478	500.0	1.001	95.3	75	125	11/22/2023
Selenium		1.0		474	500.0	0	94.9	75	125	11/22/2023
Silver		1.0		52.1	50.00	0	104.1	75	125	11/22/2023
Thallium		2.0		248	250.0	0	99.0	75	125	11/22/2023
Vanadium		5.0		495	500.0	0	99.1	75	125	11/22/2023
Zinc		15.0		516	500.0	0	103.2	75	125	11/22/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	SampType	MSD	Units µg/L				RPD Limit 20			
SampID: 23110002-037CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		25.0		2000	2000	84.12	95.6	1972	1.19	11/22/2023
Antimony		1.0		542	500.0	0	108.4	550.0	1.50	11/22/2023
Arsenic		1.0		521	500.0	0.4772	104.1	510.9	2.01	11/22/2023
Barium		1.0		2130	2000	127.3	100.3	2157	1.16	11/22/2023
Beryllium		1.0		52.6	50.00	0	105.2	51.87	1.35	11/22/2023
Boron		25.0		542	500.0	15.05	105.4	540.1	0.38	11/23/2023
Cadmium		1.0		50.5	50.00	0	101.0	50.40	0.16	11/22/2023
Chromium		1.5		194	200.0	0	96.9	191.7	1.08	11/22/2023
Cobalt		1.0		488	500.0	0.5068	97.5	481.4	1.33	11/22/2023
Copper		1.0		236	250.0	0.7327	94.3	233.3	1.33	11/22/2023
Iron		25.0		2630	2000	985.0	82.4	2590	1.64	11/22/2023
Lead		1.0		507	500.0	0	101.5	516.7	1.80	11/22/2023
Lithium	*	3.0		540	500.0	3.483	107.2	543.1	0.65	11/23/2023
Manganese		2.0		964	500.0	409.6	110.9	943.0	2.20	11/23/2023
Molybdenum		1.5		505	500.0	0	101.0	501.1	0.77	11/22/2023
Nickel		1.0		485	500.0	1.001	96.9	477.6	1.62	11/22/2023
Selenium		1.0		482	500.0	0	96.3	474.5	1.47	11/22/2023
Silver		1.0		50.3	50.00	0	100.7	52.07	3.40	11/22/2023
Thallium		2.0		248	250.0	0	99.3	247.6	0.30	11/22/2023
Vanadium		5.0		503	500.0	0	100.7	495.4	1.60	11/22/2023
Zinc		15.0		511	500.0	0	102.3	516.0	0.88	11/22/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214920 SampType: MS Units µg/L

SampleID: 23110002-107CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		2370	2000	448.0	96.0	75	125	11/22/2023
Antimony		1.0		567	500.0	0	113.4	75	125	11/22/2023
Arsenic		1.0		510	500.0	2.486	101.4	75	125	11/22/2023
Barium		1.0		2170	2000	76.66	104.9	75	125	11/22/2023
Beryllium		1.0		54.2	50.00	0	108.4	75	125	11/22/2023
Boron		25.0		553	500.0	0	110.6	75	125	11/23/2023
Cadmium		1.0		52.1	50.00	0	104.3	75	125	11/22/2023
Chromium		1.5		195	200.0	1.164	96.7	75	125	11/22/2023
Cobalt		1.0		482	500.0	0.6187	96.2	75	125	11/22/2023
Copper		1.0		234	250.0	2.760	92.5	75	125	11/22/2023
Lead		1.0		524	500.0	0	104.9	75	125	11/22/2023
Lithium	*	3.0		568	500.0	3.120	112.9	75	125	11/23/2023
Manganese		2.0		777	500.0	338.9	87.5	75	125	11/22/2023
Molybdenum		1.5		507	500.0	0.7562	101.2	75	125	11/22/2023
Nickel		1.0		476	500.0	1.103	94.9	75	125	11/22/2023
Selenium		1.0		475	500.0	0	94.9	75	125	11/22/2023
Silver		1.0		52.5	50.00	0	104.9	75	125	11/22/2023
Thallium		2.0		248	250.0	0	99.2	75	125	11/22/2023
Vanadium		5.0		498	500.0	0	99.6	75	125	11/22/2023
Zinc		15.0		516	500.0	5.914	101.9	75	125	11/22/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	SampType	MSD		Units µg/L				RPD Limit		20	Date
SampID: 23110002-107CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Aluminum		25.0		2330	2000	448.0	94.1	2368	1.65	11/22/2023	
Antimony		1.0		556	500.0	0	111.1	566.9	1.99	11/22/2023	
Arsenic		1.0		517	500.0	2.486	102.9	509.5	1.43	11/22/2023	
Barium		1.0		2140	2000	76.66	103.1	2175	1.65	11/22/2023	
Beryllium		1.0		54.2	50.00	0	108.4	54.21	0.01	11/22/2023	
Boron		25.0		533	500.0	0	106.6	552.9	3.63	11/23/2023	
Cadmium		1.0		51.6	50.00	0	103.1	52.14	1.11	11/22/2023	
Chromium		1.5		197	200.0	1.164	97.7	194.5	1.08	11/22/2023	
Cobalt		1.0		486	500.0	0.6187	97.0	481.8	0.83	11/22/2023	
Copper		1.0		238	250.0	2.760	94.0	233.9	1.61	11/22/2023	
Lead		1.0		527	500.0	0	105.5	524.3	0.60	11/22/2023	
Lithium	*	3.0		541	500.0	3.120	107.6	567.5	4.73	11/23/2023	
Manganese		2.0		777	500.0	338.9	87.7	776.5	0.12	11/22/2023	
Molybdenum		1.5		508	500.0	0.7562	101.4	506.8	0.20	11/22/2023	
Nickel		1.0		483	500.0	1.103	96.4	475.6	1.58	11/22/2023	
Selenium		1.0		478	500.0	0	95.6	474.5	0.75	11/22/2023	
Silver		1.0		51.7	50.00	0	103.3	52.46	1.50	11/22/2023	
Thallium		2.0		256	250.0	0	102.4	248.1	3.17	11/22/2023	
Vanadium		5.0		504	500.0	0	100.8	498.0	1.17	11/22/2023	
Zinc		15.0		520	500.0	5.914	102.9	515.6	0.88	11/22/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214922 SampType: MBLK Units µg/L

SampleID: MBLK-214922

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/29/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/29/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/22/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/22/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/22/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/22/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/22/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/27/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/29/2023
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/29/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/29/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/22/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/22/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/29/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/27/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/29/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/22/2023
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/22/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/22/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/27/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214922 SampType: LCS Units µg/L

SampID: LCS-214922

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1960	2000	0	97.9	80	120	11/29/2023
Antimony		1.0		518	500.0	0	103.6	80	120	11/22/2023
Arsenic		1.0		522	500.0	0	104.3	80	120	11/22/2023
Barium		1.0		2070	2000	0	103.4	80	120	11/22/2023
Beryllium		1.0		48.1	50.00	0	96.2	80	120	11/22/2023
Boron		25.0		537	500.0	0	107.4	80	120	11/30/2023
Cadmium		1.0		50.6	50.00	0	101.3	80	120	11/22/2023
Chromium		1.5		219	200.0	0	109.6	80	120	11/27/2023
Cobalt		1.0		528	500.0	0	105.5	80	120	11/29/2023
Copper		1.0		260	250.0	0	104.0	80	120	11/29/2023
Iron		25.0		2020	2000	0	101.0	80	120	11/22/2023
Lead		1.0		506	500.0	0	101.2	80	120	11/22/2023
Lithium	*	3.0		509	500.0	0	101.8	80	120	11/22/2023
Manganese		2.0		504	500.0	0	100.7	80	120	11/29/2023
Molybdenum		1.5		526	500.0	0	105.2	80	120	11/27/2023
Nickel		1.0		518	500.0	0	103.6	80	120	11/29/2023
Selenium		1.0		477	500.0	0	95.3	80	120	11/22/2023
Silver		1.0		51.6	50.00	0	103.2	80	120	11/22/2023
Thallium		2.0		232	250.0	0	92.9	80	120	11/22/2023
Vanadium		5.0		540	500.0	0	107.9	80	120	11/27/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214922		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-085FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		4.0		512	500.0	0	102.5	75	125	11/29/2023	
Arsenic		4.0		607	500.0	43.84	112.7	75	125	11/29/2023	
Barium		1.0		1830	2000	29.85	90.0	75	125	11/21/2023	
Beryllium		1.0		47.5	50.00	0	94.9	75	125	11/22/2023	
Cadmium		4.0		54.0	50.00	3.569	100.8	75	125	11/29/2023	
Chromium		6.0		194	200.0	5.694	94.1	75	125	11/29/2023	
Cobalt		1.0		479	500.0	1.895	95.5	75	125	11/21/2023	
Copper		1.0		219	250.0	1.465	87.2	75	125	11/21/2023	
Iron		25.0		2090	2000	13.62	103.9	75	125	11/21/2023	
Lead		1.0		400	500.0	0	80.0	75	125	11/22/2023	
Manganese		2.0		491	500.0	0	98.3	75	125	11/21/2023	
Nickel		1.0		467	500.0	2.180	93.0	75	125	11/21/2023	
Selenium		4.0		1290	500.0	664.3	124.2	75	125	11/30/2023	
Silver		4.0		45.8	50.00	0	91.7	75	125	11/29/2023	
Thallium		2.0		213	250.0	1.080	84.8	75	125	11/22/2023	

Batch 214922		SampType: MSD		Units µg/L							RPD Limit 20	Date Analyzed
SampID: 23110002-085FMMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		4.0		526	500.0	0	105.1	512.5	2.52	11/29/2023		
Arsenic		4.0		624	500.0	43.84	116.0	607.4	2.64	11/29/2023		
Barium		1.0		1910	2000	29.85	93.8	1830	4.06	11/21/2023		
Beryllium		1.0		45.9	50.00	0	91.9	47.47	3.27	11/22/2023		
Cadmium		4.0		54.7	50.00	3.569	102.3	53.98	1.39	11/29/2023		
Chromium		6.0		179	200.0	5.694	86.6	194.0	8.15	11/29/2023		
Cobalt		1.0		483	500.0	1.895	96.2	479.5	0.74	11/21/2023		
Copper		1.0		224	250.0	1.465	89.2	219.5	2.22	11/21/2023		
Iron		25.0		2030	2000	13.62	101.0	2092	2.89	11/21/2023		
Lead		1.0		409	500.0	0	81.7	400.1	2.13	11/22/2023		
Manganese		2.0		503	500.0	0	100.5	491.5	2.27	11/21/2023		
Nickel		1.0		479	500.0	2.180	95.3	466.9	2.46	11/21/2023		
Selenium		4.0		1250	500.0	664.3	117.1	1285	2.81	11/30/2023		
Silver		4.0		47.0	50.00	0	94.0	45.83	2.48	11/29/2023		
Thallium		2.0		209	250.0	1.080	83.1	213.2	2.12	11/22/2023		



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215174 SampType: MBLK Units µg/L

SampID: MBLK-215174

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/30/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/30/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/30/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/30/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/30/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/30/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/30/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/30/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/30/2023
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/30/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/30/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/30/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/30/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/30/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/30/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/30/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/30/2023
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/30/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/30/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/30/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/30/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215174 SampType: LCS Units µg/L

SampID: LCS-215174

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		2000	2000	0	99.9	80	120	11/30/2023
Antimony		1.0		559	500.0	0	111.9	80	120	11/30/2023
Arsenic		1.0		553	500.0	0	110.7	80	120	11/30/2023
Barium		1.0		2140	2000	0	107.1	80	120	11/30/2023
Beryllium		1.0		51.6	50.00	0	103.1	80	120	11/30/2023
Boron		25.0		508	500.0	0	101.5	80	120	11/30/2023
Cadmium		1.0		52.1	50.00	0	104.2	80	120	11/30/2023
Chromium		1.5		210	200.0	0	104.8	80	120	11/30/2023
Cobalt		1.0		530	500.0	0	106.1	80	120	11/30/2023
Copper		1.0		261	250.0	0	104.5	80	120	11/30/2023
Iron		25.0		2080	2000	0	103.8	80	120	11/30/2023
Lead		1.0		542	500.0	0	108.3	80	120	11/30/2023
Lithium	*	3.0		516	500.0	0	103.2	80	120	11/30/2023
Manganese		2.0		515	500.0	0	103.0	80	120	11/30/2023
Molybdenum		1.5		496	500.0	0	99.3	80	120	11/30/2023
Nickel		1.0		530	500.0	0	106.1	80	120	11/30/2023
Selenium		1.0		508	500.0	0	101.6	80	120	11/30/2023
Silver		1.0		47.9	50.00	0	95.7	80	120	11/30/2023
Thallium		2.0		253	250.0	0	101.0	80	120	11/30/2023
Vanadium		5.0		516	500.0	0	103.1	80	120	11/30/2023
Zinc		15.0		491	500.0	0	98.2	80	120	11/30/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215174		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-052BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		548	500.0	0	109.6	75	125	11/30/2023	
Arsenic		1.0		556	500.0	0.4876	111.2	75	125	11/30/2023	
Barium		1.0		2230	2000	183.5	102.2	75	125	11/30/2023	
Beryllium		1.0		55.9	50.00	0	111.7	75	125	11/30/2023	
Boron		25.0		609	500.0	69.05	107.9	75	125	11/30/2023	
Cadmium		1.0		50.9	50.00	0	101.9	75	125	11/30/2023	
Chromium		1.5		198	200.0	1.386	98.3	75	125	11/30/2023	
Cobalt		1.0		515	500.0	0.2958	102.9	75	125	11/30/2023	
Lead		1.0		506	500.0	0	101.1	75	125	11/30/2023	
Lithium	*	3.0		566	500.0	12.05	110.8	75	125	11/30/2023	
Molybdenum		1.5		519	500.0	3.850	103.1	75	125	11/30/2023	
Selenium		1.0		518	500.0	0	103.6	75	125	11/30/2023	
Thallium		2.0		258	250.0	0	103.0	75	125	11/30/2023	

Batch 215174		SampType: MSD		Units µg/L							RPD Limit 20	Date Analyzed
SampID: 23110002-052BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		1.0		557	500.0	0	111.5	547.9	1.72	11/30/2023		
Arsenic		1.0		548	500.0	0.4876	109.4	556.3	1.60	11/30/2023		
Barium		1.0		2120	2000	183.5	96.8	2228	4.98	11/30/2023		
Beryllium		1.0		53.2	50.00	0	106.3	55.86	4.96	11/30/2023		
Boron		25.0		578	500.0	69.05	101.8	608.7	5.14	11/30/2023		
Cadmium		1.0		48.8	50.00	0	97.6	50.95	4.28	11/30/2023		
Chromium		1.5		196	200.0	1.386	97.5	198.0	0.84	11/30/2023		
Cobalt		1.0		495	500.0	0.2958	99.0	514.8	3.86	11/30/2023		
Lead		1.0		510	500.0	0	101.9	505.7	0.79	11/30/2023		
Lithium	*	3.0		541	500.0	12.05	105.8	566.2	4.58	11/30/2023		
Molybdenum		1.5		500	500.0	3.850	99.3	519.2	3.68	11/30/2023		
Selenium		1.0		507	500.0	0	101.4	517.8	2.12	11/30/2023		
Thallium		2.0		242	250.0	0	96.9	257.5	6.09	11/30/2023		



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215175 SampType: MBLK Units µg/L

SampID: MBLK-215175

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/30/2023
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	12/02/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/30/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/30/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/30/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/30/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/30/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/30/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/30/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/30/2023
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/30/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/30/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/30/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/30/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/30/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/30/2023
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/30/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/30/2023
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/30/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/30/2023
Tin	*	1.0		< 1.0	0.5000	0	0	-100	100	12/04/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/30/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/30/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215175 SampType: LCS Units µg/L

SampID: LCS-215175

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1840	2000	0	91.9	80	120	11/30/2023
Antimony		1.0	S	613	500.0	0	122.5	80	120	12/02/2023
Arsenic		1.0		546	500.0	0	109.3	80	120	11/30/2023
Barium		1.0		2080	2000	0	103.9	80	120	11/30/2023
Beryllium		1.0		54.0	50.00	0	108.0	80	120	11/30/2023
Boron		25.0		527	500.0	0	105.4	80	120	11/30/2023
Cadmium		1.0		52.8	50.00	0	105.5	80	120	11/30/2023
Chromium		1.5		187	200.0	0	93.6	80	120	11/30/2023
Cobalt		1.0		529	500.0	0	105.9	80	120	11/30/2023
Copper		1.0		265	250.0	0	106.0	80	120	11/30/2023
Iron		25.0		2040	2000	0	102.2	80	120	11/30/2023
Lead		1.0		514	500.0	0	102.9	80	120	11/30/2023
Lithium	*	3.0		548	500.0	0	109.7	80	120	11/30/2023
Manganese		2.0		515	500.0	0	103.0	80	120	11/30/2023
Molybdenum		1.5		508	500.0	0	101.5	80	120	11/30/2023
Nickel		1.0		518	500.0	0	103.6	80	120	11/30/2023
Selenium		1.0		526	500.0	0	105.3	80	120	11/30/2023
Silver		1.0		47.7	50.00	0	95.4	80	120	11/30/2023
Thallium		2.0		251	250.0	0	100.2	80	120	11/30/2023
Tin	*	1.0		536	500.0	0	107.1	80	120	12/04/2023
Vanadium		5.0		508	500.0	0	101.6	80	120	11/30/2023
Zinc		15.0		499	500.0	0	99.7	80	120	11/30/2023



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215175		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-070BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		604	500.0	0	120.8	75	125	12/02/2023	
Arsenic		1.0		553	500.0	2.198	110.2	75	125	11/30/2023	
Barium		1.0		2080	2000	39.50	102.2	75	125	11/30/2023	
Beryllium		1.0		55.6	50.00	0	111.2	75	125	11/30/2023	
Boron		25.0		759	500.0	236.4	104.6	75	125	11/30/2023	
Cadmium		1.0		50.1	50.00	0	100.2	75	125	11/30/2023	
Chromium		1.5		188	200.0	1.067	93.3	75	125	11/30/2023	
Cobalt		1.0		529	500.0	4.512	104.9	75	125	11/30/2023	
Lead		1.0		473	500.0	0	94.6	75	125	11/30/2023	
Lithium	*	3.0		564	500.0	15.01	109.8	75	125	11/30/2023	
Molybdenum		1.5		525	500.0	3.903	104.2	75	125	11/30/2023	
Selenium		1.0		500	500.0	0	100.0	75	125	11/30/2023	
Thallium		2.0		261	250.0	0	104.4	75	125	11/30/2023	

Batch 215175		SampType: MSD		Units µg/L							RPD Limit 20	Date Analyzed
SampID: 23110002-070BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		1.0		618	500.0	0	123.7	603.9	2.35	12/02/2023		
Arsenic		1.0		595	500.0	2.198	118.5	553.4	7.21	11/30/2023		
Barium		1.0		2130	2000	39.50	104.5	2083	2.21	11/30/2023		
Beryllium		1.0		56.3	50.00	0	112.7	55.62	1.29	11/30/2023		
Boron		25.0		766	500.0	236.4	105.9	759.5	0.83	11/30/2023		
Cadmium		1.0		50.4	50.00	0	100.8	50.08	0.67	11/30/2023		
Chromium		1.5		194	200.0	1.067	96.5	187.7	3.29	11/30/2023		
Cobalt		1.0		561	500.0	4.512	111.3	529.1	5.83	11/30/2023		
Lead		1.0		478	500.0	0	95.7	473.2	1.09	11/30/2023		
Lithium	*	3.0		569	500.0	15.01	110.7	564.1	0.80	11/30/2023		
Molybdenum		1.5		547	500.0	3.903	108.6	525.0	4.08	11/30/2023		
Selenium		1.0		532	500.0	0	106.3	500.0	6.14	11/30/2023		
Thallium		2.0		277	250.0	0	110.8	261.1	5.91	11/30/2023		



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215175		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-081BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		1.0		600	500.0	0	120.0	75	125	12/02/2023	
Arsenic		1.0		531	500.0	25.04	101.1	75	125	11/30/2023	
Barium		1.0		2130	2000	245.5	94.3	75	125	11/30/2023	
Beryllium		1.0		49.9	50.00	0	99.7	75	125	11/30/2023	
Boron		25.0		652	500.0	240.6	82.2	75	125	11/30/2023	
Cadmium		1.0		49.3	50.00	0	98.6	75	125	11/30/2023	
Chromium		1.5		190	200.0	1.817	94.1	75	125	11/30/2023	
Cobalt		1.0		504	500.0	3.094	100.2	75	125	11/30/2023	
Lead		1.0		513	500.0	0	102.5	75	125	11/30/2023	
Lithium	*	3.0		510	500.0	17.78	98.5	75	125	11/30/2023	
Molybdenum		1.5		495	500.0	0.9200	98.8	75	125	11/30/2023	
Selenium		1.0		472	500.0	0	94.4	75	125	11/30/2023	
Thallium		2.0		249	250.0	0	99.5	75	125	11/30/2023	

Batch 215175		SampType: MSD		Units µg/L							RPD Limit 20	Date Analyzed
SampID: 23110002-081BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		1.0		597	500.0	0	119.4	599.9	0.45	12/02/2023		
Arsenic		1.0		544	500.0	25.04	103.8	530.6	2.52	11/30/2023		
Barium		1.0		2150	2000	245.5	95.3	2132	0.93	11/30/2023		
Beryllium		1.0		49.6	50.00	0	99.2	49.86	0.57	11/30/2023		
Boron		25.0		649	500.0	240.6	81.7	651.6	0.36	11/30/2023		
Cadmium		1.0		48.5	50.00	0	97.0	49.28	1.61	11/30/2023		
Chromium		1.5		194	200.0	1.817	95.9	190.1	1.85	11/30/2023		
Cobalt		1.0		506	500.0	3.094	100.5	503.9	0.36	11/30/2023		
Lead		1.0		512	500.0	0	102.3	512.6	0.19	11/30/2023		
Lithium	*	3.0		506	500.0	17.78	97.6	510.3	0.90	11/30/2023		
Molybdenum		1.5		493	500.0	0.9200	98.4	494.9	0.41	11/30/2023		
Selenium		1.0		481	500.0	0	96.2	471.9	1.92	11/30/2023		
Thallium		2.0		234	250.0	0	93.5	248.7	6.16	11/30/2023		



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215376 SampType: MBLK Units µg/L

SampID: MBLK-215376

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	12/05/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/04/2023
Tin	*	1.0		< 1.0	0.5000	0	0	-100	100	12/04/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	12/05/2023

Batch 215376 SampType: LCS Units µg/L

SampID: LCS-215376

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		1910	2000	0	95.5	80	120	12/05/2023
Boron		25.0		511	500.0	0	102.1	80	120	12/04/2023
Tin	*	1.0		535	500.0	0	107.0	80	120	12/04/2023
Zinc		15.0		448	500.0	0	89.7	80	120	12/05/2023

Batch 215376 SampType: MS Units µg/L

SampID: 23110002-085FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		100		6850	2000	4702	107.1	75	125	12/05/2023
Boron		100	S	13800	500.0	12760	211.3	75	125	12/04/2023
Tin	*	4.0		485	500.0	0	96.9	75	125	12/04/2023
Zinc		60.0		438	500.0	0	87.6	75	125	12/05/2023

Batch 215376 SampType: MSD Units µg/L

RPD Limit 20

SampID: 23110002-085FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		100		6850	2000	4702	107.5	6845	0.11	12/05/2023
Boron		100	S	13400	500.0	12760	136.9	13820	2.73	12/04/2023
Tin	*	4.0		490	500.0	0	98.0	484.5	1.12	12/04/2023
Zinc		60.0		430	500.0	0	86.0	437.8	1.82	12/05/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 215760 SampType: MBLK Units µg/L

SampID: MBLK-215760

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	12/11/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	12/11/2023
Barium		1.0		< 1.0	0.7000	0	0	-100	100	12/11/2023
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	12/11/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/11/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	12/11/2023
Calcium		125		< 125	70.00	0	0	-100	100	12/12/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	12/13/2023
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	12/12/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	12/11/2023
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	12/11/2023
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	12/11/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	12/11/2023
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	12/11/2023

Batch 215760 SampType: LCS Units µg/L

SampID: LCS-215760

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		527	500.0	0	105.3	80	120	12/11/2023
Arsenic		1.0		558	500.0	0	111.6	80	120	12/11/2023
Barium		1.0		2110	2000	0	105.4	80	120	12/11/2023
Beryllium		1.0		54.7	50.00	0	109.5	80	120	12/11/2023
Boron		25.0		525	500.0	0	105.0	80	120	12/11/2023
Cadmium		1.0		51.7	50.00	0	103.4	80	120	12/11/2023
Calcium		125		2300	2500	0	92.0	80	120	12/12/2023
Chromium		1.5		209	200.0	0	104.3	80	120	12/13/2023
Cobalt		1.0		487	500.0	0	97.3	80	120	12/12/2023
Lead		1.0		518	500.0	0	103.7	80	120	12/11/2023
Lithium	*	3.0		537	500.0	0	107.5	80	120	12/11/2023
Molybdenum		1.5		483	500.0	0	96.7	80	120	12/13/2023
Selenium		1.0		549	500.0	0	109.9	80	120	12/11/2023
Thallium		2.0		235	250.0	0	94.1	80	120	12/11/2023



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (DISSOLVED)

Batch 214890		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-004DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.58	5.000	0	91.6	75	125	11/20/2023	

Batch 214890		SampType: MSD		Units µg/L		RPD Limit 15					Date Analyzed
SampID: 23110002-004DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.20		4.53	5.000	0	90.7	4.581	1.06	11/20/2023	

Batch 214942		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-010CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.87	5.000	0	97.4	75	125	11/22/2023	

Batch 214942		SampType: MSD		Units µg/L		RPD Limit 15					Date Analyzed
SampID: 23110002-010CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.20		4.66	5.000	0	93.2	4.868	4.39	11/22/2023	

Batch 214942		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-023CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.58	5.000	0	91.5	75	125	11/22/2023	

Batch 214942		SampType: MSD		Units µg/L		RPD Limit 15					Date Analyzed
SampID: 23110002-023CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.20		4.63	5.000	0	92.7	4.577	1.24	11/22/2023	

Batch 214958		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-107DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.71	5.000	0	94.2	75	125	11/22/2023	

Batch 214958		SampType: MSD		Units µg/L		RPD Limit 15					Date Analyzed
SampID: 23110002-107DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.20		4.76	5.000	0	95.2	4.711	1.06	11/22/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (DISSOLVED)

Batch 214958		SampType: MS		Units µg/L							Date Analyzed
SampID: 23111126-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.88	5.000	0	97.6	75	125	11/22/2023	

Batch 214958		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23111126-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.86	5.000	0	97.3	4.878	0.28	11/22/2023		

Batch 214963		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-105DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.16	5.000	0	83.2	75	125	11/21/2023	

Batch 214963		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-105DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.24	5.000	0	84.8	4.161	1.85	11/21/2023		

Batch 214963		SampType: MS		Units µg/L							Date Analyzed
SampID: 23111131-009BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.62	5.000	0	92.3	75	125	11/21/2023	

Batch 214963		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23111131-009BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.84	5.000	0	96.7	4.617	4.66	11/21/2023		

SW-846 7470A (TOTAL)

Batch 214812		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-214812											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/17/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (TOTAL)

Batch 214812		SampType: LCS		Units µg/L							
SampID: LCS-214812											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.98	5.000	0	99.6	85	115	11/17/2023	

Batch 214890		SampType: MBLK		Units µg/L							
SampID: MBLK-214890											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/20/2023	

Batch 214890		SampType: LCS		Units µg/L							
SampID: LCS-214890											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.30	5.000	0	86.0	85	115	11/20/2023	

Batch 214942		SampType: MBLK		Units µg/L							
SampID: MBLK-214942											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/22/2023	

Batch 214942		SampType: LCS		Units µg/L							
SampID: LCS-214942											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.51	5.000	0	90.3	85	115	11/22/2023	

Batch 214943		SampType: MBLK		Units µg/L							
SampID: MBLK-214943											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/28/2023	

Batch 214943		SampType: LCS		Units µg/L							
SampID: LCS-214943											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		5.25	5.000	0	105.0	85	115	11/28/2023	

Batch 214943		SampType: MS		Units µg/L							
SampID: 23110002-028CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		5.22	5.000	0	104.4	75	125	11/28/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (TOTAL)

Batch 214943		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 23110002-028CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.99	5.000	0	99.8	5.220	4.55	11/28/2023	

Batch 214943		SampType: MS		Units µg/L							
SampID: 23110002-035CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.07	5.000	0	81.4	75	125	11/28/2023	

Batch 214943		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 23110002-035CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.07	5.000	0	81.5	4.071	0.07	11/28/2023	

Batch 214957		SampType: MBLK		Units µg/L							
SampID: MBLK-214957											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/22/2023	

Batch 214958		SampType: MBLK		Units µg/L							
SampID: MBLK-214958											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/22/2023	

Batch 214958		SampType: LCS		Units µg/L							
SampID: LCS-214958											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.75	5.000	0	95.0	85	115	11/22/2023	

Batch 214963		SampType: MBLK		Units µg/L							
SampID: MBLK-214963											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/21/2023	

Batch 214963		SampType: LCS		Units µg/L							
SampID: LCS-214963											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.59	5.000	0	91.7	85	115	11/21/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (TOTAL)

Batch 215193		SampType: MBLK		Units µg/L							
SampID: MBLK-215193											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/29/2023	

Batch 215193		SampType: LCS		Units µg/L							
SampID: LCS-215193											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		5.07	5.000	0	101.4	85	115	11/29/2023	

Batch 215193		SampType: MS		Units µg/L							
SampID: 23110002-037CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.60	5.000	0	92.0	75	125	11/29/2023	

Batch 215193		SampType: MSD		Units µg/L							
SampID: 23110002-037CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.57	5.000	0	91.5	4.599	0.53	11/29/2023	

Batch 215196		SampType: MBLK		Units µg/L							
SampID: MBLK-215196											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/29/2023	

Batch 215196		SampType: LCS		Units µg/L							
SampID: LCS-215196											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.60	5.000	0	92.0	85	115	11/29/2023	

Batch 215196		SampType: MS		Units µg/L							
SampID: 23110002-046CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.66	5.000	0	93.2	75	125	11/29/2023	

Batch 215196		SampType: MSD		Units µg/L							
SampID: 23110002-046CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.51	5.000	0	90.2	4.658	3.17	11/29/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (TOTAL)

Batch 215226		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-215226											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/29/2023	

Batch 215226		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-215226											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		5.03	5.000	0	100.7	85	115	11/29/2023	

Batch 215226		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-070BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.98	5.000	0	99.6	75	125	11/29/2023	

Batch 215226		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-070BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.96	5.000	0	99.2	4.980	0.40	11/29/2023		

Batch 215226		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-076BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.74	5.000	0	94.7	75	125	11/29/2023	

Batch 215226		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-076BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.81	5.000	0	96.3	4.736	1.64	11/29/2023		

Batch 215244		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-215244											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/30/2023	

Batch 215244		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-215244											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.78	5.000	0	95.6	85	115	11/30/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (TOTAL)

Batch 215244		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-077BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.80	5.000	0	96.0	75	125	11/30/2023	

Batch 215244		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-077BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.64	5.000	0	92.8	4.800	3.44	11/30/2023		

Batch 215313		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-215313											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/30/2023	

Batch 215313		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-215313											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.81	5.000	0	96.3	85	115	11/30/2023	

Batch 215313		SampType: MS		Units µg/L							Date Analyzed
SampID: 23110002-039CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.50	5.000	0	90.0	75	125	11/30/2023	

Batch 215313		SampType: MSD		Units µg/L							RPD Limit 15	Date Analyzed
SampID: 23110002-039CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.20		4.24	5.000	0	84.7	4.500	6.05	11/30/2023		

Batch 215455		SampType: MBLK		Units µg/L							Date Analyzed
SampID: MBLK-215455											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	12/05/2023	

Batch 215455		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-215455											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.75	5.000	0	95.0	85	115	12/05/2023	



Quality Control Results

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

SW-846 7470A (TOTAL)

Batch 215561		SampType: MBLK		Units µg/L							
SampID: MBLK-215561											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	12/06/2023	

Batch 215561		SampType: LCS		Units µg/L							
SampID: LCS-215561											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.54	5.000	0	90.8	85	115	12/06/2023	

Batch 215561		SampType: MS		Units µg/L							
SampID: 23110002-060BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.21	5.000	0	84.2	75	125	12/06/2023	

Batch 215561		SampType: MSD		Units µg/L							
SampID: 23110002-060BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.25	5.000	0	84.9	4.210	0.86	12/06/2023	

Batch 215561		SampType: MS		Units µg/L							
SampID: 23110002-061BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.40	5.000	0	88.0	75	125	12/06/2023	

Batch 215561		SampType: MSD		Units µg/L							
SampID: 23110002-061BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.50	5.000	0	90.1	4.401	2.32	12/06/2023	



Receiving Check List

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

Carrier: Justin Colp

Received By: HAW

Completed by:

Reviewed by:

On:

On:

15-Nov-23

21-Nov-23

Lindsey Maddox

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 6.0
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 checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input 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 #90719/79929. - lmaddox - 11/15/2023 10:53:25 AM

Additional nitric acid (93773) was needed in G102, G200, and R201 upon arrival at the laboratory. - lmaddox - 11/15/2023 10:53:28 AM

pH strip #79929/90719. - amberdilallo - 11/16/2023 8:51:12 AM

Additional Nitric Acid (93773) was needed in G121 upon arrival at the laboratory. Additional Sulfuric Acid (90128) was needed in G120 upon arrival at the laboratory. Additional Sodium Hydroxide (81662) was needed in G123, G126, and G153 upon arrival at the laboratory. - amberdilallo - 11/16/2023 8:51:53 AM

Samples collected on 11/15/23 were delivered to the laboratory on 11/15/23 at 1600 (on ice - 17.2C - LTG5). - HW/ERH 11/16/23

pH strip #79929/90719. - amberdilallo - 11/17/2023 8:45:01 AM

Additional Nitric Acid (93773) was needed in L202 upon arrival at the laboratory. - amberdilallo - 11/17/2023 8:45:07 AM

L202 was delivered to the laboratory on 11/16/23 at 1500 (on ice - 17.6C - LTG1). - AMD 11/16/23

pH strip #79929/90719. - amberdilallo - 11/17/2023 8:46:34 AM

Additional Nitric Acid (93773) was needed in G209 and G217 upon arrival at the laboratory. Additional Sulfuric Acid (90128) was needed in G217 upon arrival at the laboratory. - amberdilallo - 11/17/2023 8:46:55 AM



Receiving Check List

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

Client: Ramboll

Work Order: 23110002

Client Project: COF-23Q4

Report Date: 08-Jan-24

Samples collected on 11/16/23 were delivered to the laboratory on 11/16/23 at 1615 (on ice - 3.6C - LTG1). - AMD 11/17/23

pH strip #79929/90719. - amberdilallo - 11/17/2023 3:11:29 PM

Samples collected on 11/17/23 were delivered to the laboratory on 11/17/23 at 1400 (on ice - 14.4C - LTG1). - AMD 11/17/23

XPW02 was damaged in the laboratory and lost 2/3 volume. - LM/ERH 11/17/23

pH strip #79929/90719. - amberdilallo - 11/21/2023 8:57:45 AM

Additional Nitric Acid (90719) was needed in G285, G313, G314, G314D, G316, and G407 upon arrival at the laboratory. Additional Sodium Hydroxide (81662) was needed in G278 and G407 upon arrival at the laboratory. - amberdilallo - 11/21/2023 8:57:52 AM

Samples collected on 11/20/23 were delivered to the laboratory on 11/20/23 at 1645 (on ice - 12.2C - LTG5). - AMD 11/20/23

pH strip #79929/90719. - amberdilallo - 11/21/2023 2:07:05 PM

Additional Nitric Acid (93773) was needed in G303 upon arrival at the laboratory. Additional Sodium Hydroxide (81662) was needed in G401 upon arrival at the laboratory. - amberdilallo - 11/21/2023 2:07:08 PM

Samples collected on 11/21/23 were delivered to the laboratory on 11/21/23 at 1220 (on ice - 9.4C - LTG5). - AMD 11/21/23

Sample collected 12/6/23 was delivered to the laboratory on 12/6/23 at 1307 (on ice - 7.8C - LTG1). - AMD 12/6/23

Samples collected on 12/07/23 were delivered to the laboratory on 12/07/23 at 1255 (on ice - 10.0C - LTG5). pH strip #90719. Additional nitric acid (94914) was needed in G275D upon arrival at the laboratory. - LM/MEK 11/20/23

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen	Report To: Brian Voelker	Attention: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY	
Address: 134 CIPS Lane	Copy To: Sam Davies-samantha.davies@vistracorp.com	Address: see Section A				NPDES GROUND WATER DRINKING WATER	
Coffeen, IL 62017	John Romang - John.Romang@vistracorp.com					UST RCRA OTHER	
Scott Bell- Michael.Bell@vistracorp.com	Purchase Order No.:	Quote Reference:		Project Manager:		Site Location IL	
Email To: Brian.Voelker@VistraCorp.com		Project Name:		Profile #:		STATE: IL	
Phone: (217) 753-8911	Fax:	Project Number: 2285					
Requested Due Date/TAT: 10 day							

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Vand Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT SOL/SOLID SL OIL CL WIPE WP AIR AR OTHER TS	MATRIX DW WT WW P SL CL WP AR OT 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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106		
1	G101					11-14-23	1611	5	2	1	1	1						X																	23110002-001
2	G102					↑	1537	7	2	2	2	1					X	X		X														23110002-002	
3	G103						1513	7	2	2	2	1					X		X															23110002-003	
4	G105						1422	7	2	2	2	1					X		X															23110002-004	
5	G106						1354	7	2	2	2	1					X		X															23110002-005	
6	G107						1333	5	2	1	1	1					X																	23110002-006	
7	G108						1315	5	2	1	1	1					X																	23110002-007	
8	G109						1259	5	2	1	1	1					X																	23110002-008	
9	G110						1241	5	2	1	1	1					X																	23110002-009	
10	G111						1159	5	2	1	1	1					X																	23110002-010	
11	G119							5	2	1	1	1					X																	23110002-011	
12	G120							5	2	1	1	1					X																	23110002-012	
13	G121							5	2	1	1	1					X																	23110002-013	
14	G122							5	2	1	1	1					X																	23110002-014	
15	G123							5	2	1	1	1					X																	23110002-015	
16	G124							5	2	1	1	1					X																	23110002-016	

ADDITIONAL COMMENTS COF-23Q4 Rev 0	RELINQUISHED BY / AFFILIATION <i>J. Colp</i>	DATE 11-14	TIME 1745	ACCEPTED BY / AFFILIATION <i>Justin Colp</i>	DATE 11/14	TIME 1745	SAMPLE CONDITIONS #5 ③		6.0	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: <i>Justin Colp</i> SIGNATURE of SAMPLER: <i>Justin Colp</i>										DATE Signed (MM/DD/YY): 11-14-23 1745			

PHV 90719, 79929. Added HNO₃ (#3173) to G102, G200 a 2001. #W 1115123

COF-845-002

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: Company: Vistra Corp-Coffeen Address: 134 CIPS Lane Coffeen, IL 62017 Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Requested Due Date/TAT: 10 day		Section B Required Project Information: Report To: Brian Voelker Copy To: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com 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:	
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ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE	MATRIX DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT SOIL/SOLID P OIL SL WIPE WP AIR AR OTHER 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)										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
1	G125							5	2	1	1	1																	23110002-017
2	G126							5	2	1	1	1																	23110002-018
3	G151							4	2	1	1	1														X			23110002-019
4	G152							4	2	1	1	1														X			23110002-020
5	G153							4	2	1	1	1														X			23110002-021
6	G154							5	2	2	1	1													X	X			23110002-022
7	G155							4	2	1	1	1														X			23110002-023
8	G200					11-14-23		6	2	1	2	1									X	X				X			23110002-024
9	G206							6	2	1	2	1									X					X			23110002-025
10	G206D							2	1	1	1										X								23110002-026
11	G207					11-14-23		6	2	1	2	1														X			23110002-027
12	G208							6	2	1	2	1														X			23110002-028
13	G209							6	2	1	2	1									X					X			23110002-029
14	G210							6	2	1	2	1														X			23110002-030
15	G211							6	2	1	2	1														X			23110002-031
16	G212							6	2	1	2	1														X			23110002-032

ADDITIONAL COMMENTS COF-23Q4 Rev 0	RELINQUISHED BY / AFFILIATION J. Colp	DATE 11-14	TIME 1745	ACCEPTED BY / AFFILIATION [Signature]	DATE 11/14	TIME 1745	SAMPLE CONDITIONS Y Z	
--	--	---------------	--------------	--	---------------	--------------	-------------------------------	--

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Justin Colp			DATE Signed (MM/DD/YY): 11-14-23	TIME: 1745	Temp in °C	Received on (ice (Y/N))	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: [Signature]								

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com		Address: see Section A		UST RCRA OTHER	
Scott Bell- Michael.Bell@vistracorp.com		Purchase Order No.:		Quote Reference:		Site Location	
Email To: Brian.Voelker@VistraCorp.com		Project Name:		Project Manager:		STATE: IL	
Phone: (217) 753-8911 Fax:		Project Number: 2285		Profile #:			
Requested Due Date/TAT: 10 day							

ITEM #	Section D Required Client Information	SAMPLE ID (A-Z, 0-9, -, .) Sample IDs MUST BE UNIQUE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test [Y/N]	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
1		G410				4	1	2	1																		23110002-081
2		G411				4	1	2	1																		23110002-082
3		G1001	11-14-23	1136		2	1	1																			23110002-083
4		G1003				0																					23110002-084
5		L202				20	12	3	1	3	1																23110002-085
6		MW03D				0																					23110002-086
7		MW12D				0																					23110002-087
8		MW20S				0																					23110002-088
9		NE Riser				0																					23110002-089
10		R104	11-14-23	1441		7	2	2	2	1																	23110002-090
11		R201	11-14-23	1037		6	2	1	2	1																	23110002-091
12		R205				6	2	1	2	1																	23110002-092
13		SG-02				0																					23110002-093
14		SG-03				0																					23110002-094
15		SG-04				0																					23110002-095
16		T127				5	2	1	1	1																	23110002-096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
COF-23Q4 Rev 0	J. Gelp	11/14	1745	Doreen Wan	11/14	1745								
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): 11-14-23 1745											

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: 7 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL	
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		John Romang - John.Romang@vistracorp.com Scott Bel- Michael.Bel@vistracorp.com		Address: see Section A			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Name:		Project Manager:			
		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID <small>(A-Z, 0-9 / .)</small> Sample IDs MUST BE UNIQUE	Valid Matrix Codes DRINKING WATER DN WT WATER WW P WASTE WATER SL PRODUCT SOIL/SOLID WP AR OF WIPE AIR OTHER TS	MATRIX MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Analysis Test ↓ VIN ↓	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		
1	T128							5	2	1	1						X									23110002-097				
2	X201							2	1		1															23110002-098				
3	XPW01							2	1		1						X									23110002-099				
4	XPW02							2	1		1						X									23110002-100				
5	XSG-01							0									X									23110002-101				
6	Field Blank							22	12	4	2	3	1			X	X	X	X	X	X	X	X	X	X	23110002-102				
7	G102 Duplicate						11-14-23		1537	7	2	2	2	1				X	X			X				23110002-103				
8	G200 Duplicate						11-14-23		1001	6	2	1	2	1				X		X						23110002-104				
9	G273 Duplicate							6	2	1	2	1						X			X					23110002-105				
10	G301 Duplicate							2	1		1						X									23110002-106				
11	R201 Duplicate						11-17-23		1037	6	2	1	2	1				X	X			X		X		23110002-107				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q4 Rev 0	<i>J. Colp</i>	11/14	1745	<i>Alannah Jan</i>	11/14	1745	Y	Z

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	<i>Justin Colp</i>	DATE Signed (MM/DD/YY):	11-14-23
SIGNATURE of SAMPLER:	<i>Justin Colp</i>	TIME Signed (MM/DD/YY):	1745
Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

TE Gm 11/16/23
 ATTACHMENT 3
 845 QUARTERLY REPORT - QUARTER 4, 2023
 GREEN POWER PLANT, ASH BOND NO. 2
 COF-23Q4
 #5

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		Site Location	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL	
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	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
						1				G101						5		2	1	1	1												
2		G102						7	2	2	2	1															23110002-002						
3		G103						7	2	2	2	1															23110002-003						
4		G105						7	2	2	2	1															23110002-004						
5		G106						7	2	2	2	1															23110002-005						
6		G107						5	2	1	1	1															23110002-006						
7		G108						5	2	1	1	1															23110002-007						
8		G109						5	2	1	1	1															23110002-008						
9		G110						5	2	1	1	1															23110002-009						
10		G111						5	2	1	1	1															23110002-010						
11		G119				11-15-23		5	2	1	1	1															23110002-011						
12		G120						5	2	1	1	1															23110002-012						
13		G121						5	2	1	1	1															23110002-013						
14		G122						5	2	1	1	1															23110002-014						
15		G123						5	2	1	1	1															23110002-015						
16		G124						5	2	1	1	1															23110002-016						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q4 Rev 0	J. Coip	11-15	1600	Justin Coip	11/15	1600	12	>	=	Y

PHV 90719/79929. Added HNO3 (93773) to G121. Added H2SO4(90215) to G120, G123. Added NaOH(81602) to G123, G124, and G123. HW 11/16/23

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 Coip				
SIGNATURE of SAMPLER:	Justin Coip				
DATE Signed (MM/DD/YY):		11-15-23			

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:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Coffeeen		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 134 CIPS Lane Coffeeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A	
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Name:		Project Manager:	
		Project Number: 2285		Profile #:	

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . . .) Sample IDs MUST BE UNIQUE	MATRIX DRINKING WATER DW WATER WT WASTE WATER WW P PRODUCT SL OL SOIL/SOLID WP DIL AR WIPE OT AIR OTHER 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)										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
1	G125				11-15-23	0224		5	2	1	1	1								X									23110002-017
2	G126					1111		5	2	1	1	1								X									23110002-018
3	G151					1170		4	2	1	1	1													X			23110002-019	
4	G152							4	2	1	1	1													X			23110002-020	
5	G153					1338		4	2	1	1	1													X			23110002-021	
6	G154					1255		5	2	2	1	1												X	X			23110002-022	
7	G155					1216		4	2	1	1	1														X		23110002-023	
8	G200							6	2	1	2	1								X	X			X				23110002-024	
9	G206				11-15-23	1431		6	2	1	2	1							X				X					23110002-025	
10	G206D							2	1	1	1								X				X					23110002-026	
11	G207							6	2	1	2	1							X				X					23110002-027	
12	G208							6	2	1	2	1							X				X					23110002-028	
13	G209							6	2	1	2	1						X				X			X			23110002-029	
14	G210							6	2	1	2	1							X				X					23110002-030	
15	G211							6	2	1	2	1							X				X					23110002-031	
16	G212							6	2	1	2	1							X				X					23110002-032	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0	J. Colp	11-15	1600	<i>Jason Stuckey</i>	11/15	1600	> < z

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>Justin Colp</i>	DATE Signed (MM/DD/YY): 11-15-23				

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: Page: **6** of **7**

Company: Vistra Corp-Coffeen	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY	
Address: 134 CIPS Lane	Copy To: Sam Davies-samantha.davies@vistracorp.com	Company Name: Vistra Corp	NPDES	GROUND WATER
Coffeen, IL 62017	John Romang - John.Romang@vistracorp.com Scott Bell - Michael.Bell@vistracorp.com	Address: see Section A	DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	UST	RCRA
Phone: (217) 753-8911	Project Name:	Project Manager:	OTHER	
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	Site Location	
			STATE: IL	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ., -) Sample IDs MUST BE UNIQUE	Requested Analysis Filtered (Y/N)													Residual Chlorine (Y/N)	Project No./ Lab I.D.																	
		COLLECTED		Preservatives										Analysis Test																			
		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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106						
1	G410			4	1	2	1																										23110002-081
2	G411			4	1	2	1																									23110002-082	
3	G1001			2	1	1																X										23110002-083	
4	G1003			0																		X										23110002-084	
5	L202			20	12	3	1	3	1							X																23110002-085	
6	MW03D			0																												23110002-086	
7	MW12D			0																												23110002-087	
8	MW20S			0																												23110002-088	
9	NE Riser			0																												23110002-089	
10	R104			7	2	2	2		1																							23110002-090	
11	R201			6	2	1	2		1																								23110002-091
12	R205			6	2	1	2		1																								23110002-092
13	SG-02			0																													23110002-093
14	SG-03			0																													23110002-094
15	SG-04			0																													23110002-095
16	T127			5	2	1	1		1																								23110002-096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0	J. Colp	11-15	1600	Jason Stuckey	11/15	1600	> z

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:	[Signature]	DATE Signed (MM/DD/YY): 11-15-23				

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: 6 of 7
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Company: Vistra Corp-Coffeen	Report To: Brian Voelker	Attention: Jason Stuckey	
Address: 134 CIPS Lane	Copy To: Sam Davies-samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER
Coffeen, IL 62017	John Romang - John.Romang@vistracorp.com Scott Bell- MichaelBell@vistracorp.com	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 #:	Site Location STATE: IL

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	MATRIX DRAINAGE WATER DW WATER WWT WATER WASTE WW WATER WASTE P PRODUCT SOLID OL SOL.SOLID OL WP AR OT AR OTHER TS Tissue		MATRIX CODE <small>(see water codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMPF)</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	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	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-WPCP-102 COF-WPCP-103-104 COF-WPCP-106													
1	G410							4	1	2	1																	23110002-081				
2	G411							4	1	2	1																23110002-082					
3	G1001							2	1	1																	23110002-083					
4	G1003							0																			23110002-084					
5	L202					11.16	13:38	20	12	3	1	3	1														23110002-085					
6	MW03D							0																			23110002-086					
7	MW12D							0																			23110002-087					
8	MW20S							0																			23110002-088					
9	NE Riser							0																			23110002-089					
10	R104							7	2	2	2	1															23110002-090					
11	R201							6	2	1	2	1															23110002-091					
12	R205							6	2	1	2	1															23110002-092					
13	SG-02							0																			23110002-093					
14	SG-03							0																			23110002-094					
15	SG-04							0																			23110002-095					
16	T127							5	2	1	1		1														23110002-096					
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS												
COF-23Q4 Rev 0				T. Carroll				11.16		15:00		Daniel Crump				11/16/23		1500		> = <												

Added HNO₃ (93773) to L202.
 pH ✓ 7029/9079 Gm
 11/17/23
 TE Gm

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Daniel Crump		DATE Signed (MM/DD/YY): 11.16.2023	
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YY): 11.16.2023	

36#1
COF-23Q4
23110002

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: <u>Vistra Corp-Coffeen</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>				
Address: <u>134 CIPS Lane</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp</u>		NPDES GROUND WATER DRINKING WATER		
<u>Coffeen, IL 62017</u>		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: <u>see Section A</u>		UST RCRA OTHER		
Email To: <u>Brian Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		Site Location		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:		STATE: <u>IL</u>		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Profile #:				

ITEM #	Section D Required Client Information	Vario Matrix Codes MATRIX DRIVING WATER DW WATER WT WASTE WATER VWV P PRODUCT SOLID SL WP AR OT TS CIL WIPE AIR OTHER	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1								5	2	1	1	1	1														23110002-017						
2								5	2	1	1	1	1														23110002-018						
3								4	2	1	1	1	1												X		23110002-019						
4								4	2	1	1	1	1												X		23110002-020						
5								4	2	1	1	1	1												X		23110002-021						
6								5	2	2	1	1	1										X	X			23110002-022						
7								4	2	1	1	1	1												X		23110002-023						
8								6	2	1	2	1	1									X	X				23110002-024						
9								6	2	1	2	1	1									X	X				23110002-025						
10								2	1	1	1	1	1									X					23110002-026						
11								6	2	1	2	1	1									X	X				23110002-027						
12								6	2	1	2	1	1									X	X				23110002-028						
13								6	2	1	2	1	1									X	X				23110002-029						
14								6	2	1	2	1	1									X	X				23110002-030						
15								6	2	1	2	1	1									X	X				23110002-031						
16								6	2	1	2	1	1									X	X				23110002-032						
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION					DATE	TIME	SAMPLE CONDITIONS																	
COF-23Q4 Rev 0					J. Galp		11-16	1615	Smoendilallo					11/16/23	1615	3.6 > < Y																	

Added HNO₃ (93773) to ~~6202~~ G209
and G217. Added H₂SO₄ (90128)
to G217. 01+V 79929/90719
Sm 11/17/23

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:	<u>Justin Galp</u>				
SIGNATURE of SAMPLER:	<u>[Signature]</u>	DATE Signed (MM/DD/YY):	<u>11-16-23</u>		

COF-231002
 23110002

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-Coffeeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL			
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp					
Coffeeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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 #:					

ITEM #	Section D Required Client Information	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	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 O ₂	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-106	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-WPCP-102			COF-WPCP-103-104	COF-WPCP-106						
																														MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (also valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (also valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)
1	G213	11-16-23	1248	6	2	1	2	1																											23110002-033
2	G214		1218	6	2	1	2	1																										23110002-034	
3	G215		1152	6	2	1	2	1				X																						23110002-035	
4	G216		1120	6	2	1	2	1											X														23110002-036		
5	G217		1043	6	2	1	2	1				X							X														23110002-037		
6	G218		1013	6	2	1	2	1				X							X														23110002-038		
7	G270			6	2	1	2	1			X		X					X	X	X	X												23110002-039		
8	G271			6	2	1	2	1					X						X														23110002-040		
9	G272			6	2	1	2	1											X														23110002-041		
10	G273			6	2	1	2	1					X						X														23110002-042		
11	G274			6	2	1	2	1											X														23110002-043		
12	G275			6	2	1	2	1					X						X														23110002-044		
13	G275D			2	1		1												X														23110002-045		
14	G276			6	2	1	2	1					X						X														23110002-046		
15	G277			6	2	1	2	1					X						X														23110002-047		
16	G278			6	2	1	2	1											X														23110002-048		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
COF-23Q4 Rev 0		J. Colp		11-16		1615		Gmourelakis		11/16/23		1615		> z			
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: [Signature]									DATE Signed (MM/DD/YY): 11-16-23			

COF1846-1002

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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	Matrix Codes <u>MATRIX</u> DRINKING WATER DW WATER WT WASTE WATER WW P PRODUCT SL SOIL/SOLID OL WP AR OT TS AIR WIPE OTHER	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test <u>Y/N</u>	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
									1	G125				5	2		1	1	1						X							
2	G126				5	2	1	1	1						X												23110002-018					
3	G151				4	2		1	1														X			23110002-019						
4	G152				4	2		1	1														X			23110002-020						
5	G153				4	2		1	1														X			23110002-021						
6	G154				5	2		2	1									X				X				23110002-022						
7	G155				4	2		1	1														X			23110002-023						
8	G200				6	2	1	2	1						X	X		X				X				23110002-024						
9	G206				6	2	1	2	1						X			X				X				23110002-025						
10	G206D				2	1		1							X			X								23110002-026						
11	G207				6	2	1	2	1									X				X				23110002-027						
12	G208				6	2	1	2	1									X				X				23110002-028						
13	G209				6	2	1	2	1					X				X				X				23110002-029						
14	G210				6	2	1	2	1									X				X				23110002-030						
15	G211				6	2	1	2	1									X				X				23110002-031						
16	G212				6	2	1	2	1					X				X				X				23110002-032						
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION						DATE	TIME	SAMPLE CONDITIONS																
COF-23Q4 Rev 0					J. Cole	11-17	1400	Anish We						11/17	1400	14.4	>	=	Y													

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Justin Cole		DATE Signed (MM/DD/YYYY): 11-17-23	
SIGNATURE of SAMPLER: <i>[Signature]</i>		Temp in °C	
Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	

Dropped ~~the~~ XPW02 upon arrival.
Spilled 2/3 of bottle. on 11/17

pH: 9.0719179929
on 11/17

23110002

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: <u>Vistra Corp-Coffeeen</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>						NPDES		GROUND WATER		DRINKING WATER	
Address: <u>134 CIPS Lane</u> <u>Coffeeen, IL 62017</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp</u>						UST		RCRA		OTHER	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:						Site Location		IL			
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:						STATE:					
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Profile #:											

ITEM #	Section D Required Client Information SAMPLE ID <small>(A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE</small>	MATERIAL CODES <small>(see valid codes to left)</small>	MATERIAL CODE	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106			
1	G213							6	2	1	2																									23110002-033
2	G214							6	2	1	2																								23110002-034	
3	G215							6	2	1	2																								23110002-035	
4	G216							6	2	1	2																								23110002-036	
5	G217							6	2	1	2																								23110002-037	
6	G218							6	2	1	2																								23110002-038	
7	G270							6	2	1	2																								23110002-039	
8	G271							6	2	1	2																								23110002-040	
9	G272							6	2	1	2																								23110002-041	
10	G273							6	2	1	2																								23110002-042	
11	G274							6	2	1	2																								23110002-043	
12	G275							6	2	1	2																								23110002-044	
13	G275D							2	1	1	1																								23110002-045	
14	G276							6	2	1	2																								23110002-046	
15	G277							6	2	1	2																								23110002-047	
16	G278							6	2	1	2																								23110002-048	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0	<u>J. Colp</u>	<u>11-17</u>	<u>1400</u>	<u>Andrew</u>	<u>11/17</u>	<u>1400</u>			

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>Justin Colp</u>		DATE Signed (MM/DD/YY): <u>11-17-23</u>				
SIGNATURE of SAMPLER: <u>[Signature]</u>						

COF-845-102 *J*

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER					
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp							
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com		Address: see Section A		UST RCRA OTHER					
Scott Bell - Michael.Bell@vistracorp.com		Purchase Order No.:		Quote Reference:		Site Location STATE: IL					
Email To: Brian.Voelker@VistraCorp.com		Project Name:		Project Manager:							
Phone: (217) 753-8911 Fax:		Project Number: 2285		Profile #:		Requested Analysis Filtered (Y/N)					
Requested Due Date/TAT: 10 day											

ITEM #	Section D Required Client Information	MATRIX DRINKING WATER (DW) WATER (WT) WASTE WATER (WW) PRODUCT SOIL/SOLID (SL) OIL (OL) WIPE (WP) AIR (AR) OTHER (OT) 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 ↓	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106				
1	G279				11-17-23	1203	6	2	1	2	1																									23110002-049
2	G280						6	2	1	2	1											X	X												23110002-050	
3	G281						4	1		2	1										X	X													23110002-051	
4	G283						2	1	1																										23110002-052	
5	G284				11-17-23	064	2	1	1																										23110002-053	
6	G285						2	1	1																										23110002-054	
7	G286						0																												23110002-055	
8	G288						0																												23110002-056	
9	G301						2	1	1													X													23110002-057	
10	G302						2	1	1													X													23110002-058	
11	G303						2	1	1													X													23110002-059	
12	G305				11-17-23	1055	2	1	1													X													23110002-060	
13	G306				11-17-23	1226	2	1	1													X													23110002-061	
14	G307						2	1	1													X													23110002-062	
15	G307D				11-17-23	1138	2	1	1													X													23110002-063	
16	G308				11-17-23	1011	2	1	1													X													23110002-064	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0	<i>J. Colp</i>	11-17	1400	<i>Jason Wa</i>	11/17	1400	>	z	

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>Justin Colp</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: Company: Vistra Corp-Coffeen Address: 134 CIPS Lane Coffeen, IL 62017 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: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com 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:	
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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 (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.					
		MATRIX				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	
		DRINKING WATER DW	WATER WW																													WASTE WATER WP
1	G309						0																									23110002-065
2	G310						2	1	1					X						X											23110002-066	
3	G312						2	1	1					X						X											23110002-067	
4	G313						2	1	1					X						X											23110002-068	
5	G314						2	1	1					X						X											23110002-069	
6	G314D						2	1	1					X						X											23110002-070	
7	G315						2	1	1					X						X											23110002-071	
8	G316						2	1	1					X						X											23110002-072	
9	G317						0													X											23110002-073	
10	G401						4	1	2	1				X						X			X								23110002-074	
11	G402						4	1	2	1				X						X			X								23110002-075	
12	G403						4	1	2	1				X						X			X								23110002-076	
13	G404						4	1	2	1				X						X			X								23110002-077	
14	G405						4	1	2	1				X						X			X								23110002-078	
15	G406						4	1	2	1				X						X			X								23110002-079	
16	G407						4	1	2	1				X						X			X								23110002-080	

ADDITIONAL COMMENTS: COF-23Q4 Rev 0		RELINQUISHED BY / AFFILIATION: J. Colp	DATE: 11-17	TIME: 1400	ACCEPTED BY / AFFILIATION: Justin Colp	DATE: 11/17	TIME: 1400	SAMPLE CONDITIONS: Y Z		
--	--	---	--------------------	-------------------	---	--------------------	-------------------	------------------------------	--	--

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>Justin Colp</i>				
DATE Signed (MM/DD/YY): 11-17-23					

2110002
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:		
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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		
				STATE: IL		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix DRINKING WATER DW WATER WT WASTE WATER WW WASTE WATER P PRODUCT SL SOIL/SOLID WP OIL AR WIPE OT AIR TS OTHER	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)										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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	
																																	DATE
1	T128						5	2	1	1																						23110002-097	
2	X201						2	1		1													X								23110002-098		
3	XPW01				11-17-23	0939	2	1		1									X												23110002-099		
4	XPW02				11-17-23	0902	2	1		1									X												23110002-100		
5	XSG-01						0												X												23110002-101		
6	Field Blank						22	12	4	2	3	1							X	X	X	X	X	X	X	X	X	X	X	X	23110002-102		
7	G102 Duplicate						7	2	2	2		1													X						23110002-103		
8	G200 Duplicate						6	2	1	2		1											X								23110002-104		
9	G273 Duplicate				11-17-23	1037	6	2	1	2		1													X						23110002-105		
10	G301 Duplicate						2	1		1									X												23110002-106		
11	R201 Duplicate						6	2	1	2		1										X				X					23110002-107		
12																																	
13																																	
14																																	
15																																	
16																																	
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION					DATE	TIME	SAMPLE CONDITIONS																	
COF-23Q4 Rev 0					J. Colp		11-17	1400	[Signature]					11/17	1400	y z																	

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER: Justin Colp				
SIGNATURE of SAMPLER: [Signature]				DATE Signed (MM/DD/YY): 11-17-23
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.

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Vistra Corp-Coffeen		Report To: Brian Voelker	Attention: Jason Stuckey
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com	Company Name: Vistra Corp
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com	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	MATRIX DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT OL SOIL/SOLID WP OIL AR WIPER OT AIR TS OTHER	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-WPCP-102	COF-WPCP-103-104
1	G125							5	2	1	1	1	1										X								23110002-017
2	G126							5	2	1	1	1	1									X								23110002-018	
3	G151							4	2	1	1	1	1															X		23110002-019	
4	G152					11-20-23	0830	4	2	1	1	1	1															X		23110002-020	
5	G153							4	2	1	1	1	1															X		23110002-021	
6	G154							5	2	2	1	1	1													X	X			23110002-022	
7	G155							4	2	1	1	1	1														X			23110002-023	
8	G200							6	2	1	2	1	1											X		X				23110002-024	
9	G206							6	2	1	2	1	1										X		X					23110002-025	
10	G206D							2	1	1	1	1	1											X		X				23110002-026	
11	G207							6	2	1	2	1	1												X		X			23110002-027	
12	G208							6	2	1	2	1	1												X		X			23110002-028	
13	G209							6	2	1	2	1	1											X		X				23110002-029	
14	G210							6	2	1	2	1	1												X		X			23110002-030	
15	G211							6	2	1	2	1	1												X		X			23110002-031	
16	G212							6	2	1	2	1	1												X		X			23110002-032	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0	J. Colp	11-20	1645	[Signature]	11/20/23	1145	Y N

PHV 90719179929. Added HNO3 (93713) to G285, G313, G314, G314D, G316, and G407. Added NaOH (91662) to G278 and G407. HW 11/21.

SAMPLER NAME AND SIGNATURE		Temp in °C 10.2 ✓	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Colp					
SIGNATURE of SAMPLER: [Signature]					

LTC-S

COF-23Q4-102

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		John Romang - John.Romang@vistracorp.com		Address: see Section A	
Phone: (217) 753-8911		Purchase Order No.:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Name:		Project Manager:	
		Project Number: 2285		Profile #:	
				REGULATORY AGENCY	
				NPDES GROUND WATER DRINKING WATER	
				UST RCRA OTHER	
				Site Location	
				STATE: IL	

ITEM #	Section D Required Client Information SAMPLE ID <small>(A-Z, 0-9 / .)</small> Sample IDs MUST BE UNIQUE		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 Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No. / Lab I.D.				
			DRINKING WATER	WATER			WASTE WATER	PRODUCT			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-WPCP-102			COF-WPCP-103-104	COF-WPCP-106		
			DW	WT			WW	P			SL	GL	WP	AR	OT	TS	DATE		TIME	Y	N	Y	N	Y	N	Y	N	Y	N	Y			N	Y	N	Y
1									6	2	1	2	1									X														23110002-033
2									6	2	1	2	1										X												23110002-034	
3									6	2	1	2	1				X						X												23110002-035	
4									6	2	1	2	1										X												23110002-036	
5									6	2	1	2	1									X													23110002-037	
6									6	2	1	2	1				X						X												23110002-038	
7									6	2	1	2	1				X	X			X	X													23110002-039	
8									6	2	1	2	1					X				X	X												23110002-040	
9									6	2	1	2	1										X	X											23110002-041	
10									6	2	1	2	1					X					X	X											23110002-042	
11									6	2	1	2	1										X	X											23110002-043	
12									6	2	1	2	1										X	X											23110002-044	
13									2	1	1	1											X												23110002-045	
14									6	2	1	2	1										X	X											23110002-046	
15									6	2	1	2	1										X	X											23110002-047	
16									6	2	1	2	1										X	X											23110002-048	
	ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																									
	COF-23Q4 Rev 0		J. Colp		11-20	1645	Jonathan Wan		11/20/23	1645																										

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:					
		DATE Signed (MM/DD/YY): 11-20-23					

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:		Page: 4 of 7		
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY		
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Company Name: Vistra Corp				
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST	RCRA	OTHER
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location		IL
Requested Due Date/FAT: 10 day		Project Number: 2285		Profile #:		STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT SOIL/SOLID OL OIL WP WIPE AR AIR OY OTHER 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)										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		
1	G279							6	2	1	2																23110002-049	
2	G280				11-20-23	0950		6	2	1	2								X								23110002-050	
3	G281				↓	0856		4	1	2	2	1							X	X							23110002-051	
4	G283					1034		2	1	1	1																23110002-052	
5	G284							2	1	1	1																23110002-053	
6	G285				11-20-23	1102		2	1	1	1																23110002-054	
7	G286							0																			23110002-055	
8	G288							0																			23110002-056	
9	G301				11-20-23	1042		2	1	1	1																23110002-057	
10	G302				11-20-23	1222		2	1	1	1																23110002-058	
11	G303							2	1	1	1																23110002-059	
12	G305							2	1	1	1																23110002-060	
13	G306							2	1	1	1																23110002-061	
14	G307							2	1	1	1																23110002-062	
15	G307D							2	1	1	1																23110002-063	
16	G308							2	1	1	1																23110002-064	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION					DATE		TIME		SAMPLE CONDITIONS									
COF-23Q4 Rev 0			J. Colp			11-20		1645		Justin Colp					11/20/23		1124		Y N									

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Justin Colp		
SIGNATURE of SAMPLER:	<i>Justin Colp</i>		
DATE Signed (MM/DD/YY):	11-20-23		
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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: **5** of **7**

Company: Vistra Corp-Coffeen	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 134 CIPS Lane	Copy To: Sam Davies-samantha.davies@vistracorp.com	Company Name: Vistra Corp
Coffeen, IL 62017	John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com	Address: see Section A
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911	Project Name:	Project Manager:
Fax:	Project Number: 2285	Profile #:
Requested Due Date/TAT: 10 day		

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location: **IL**

STATE: **IL**

ITEM #	Section D Required Client Information	Matrix Code (see valid codes to left)	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.														
			COLLECTED		Preservatives												Analysis Test ↓													
			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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106		
					# OF CONTAINERS																									
1	G309				0																									23110002-065
2	G310		11-20-23	0949	2	1	1																							23110002-066
3	G312				2	1	1																							23110002-067
4	G313		11-20-23	1404	2	1	1																							23110002-068
5	G314		↓	1524	2	1	1																							23110002-069
6	G314D		↓	1449	2	1	1																							23110002-070
7	G315				2	1	1																							23110002-071
8	G316		11-20-23	1321	2	1	1																							23110002-072
9	G317				0																									23110002-073
10	G401				4	1	2	1																						23110002-074
11	G402				4	1	2	1																						23110002-075
12	G403		11-20-23	1141	4	1	2	1																						23110002-076
13	G404				4	1	2	1																						23110002-077
14	G405				4	1	2	1																						23110002-078
15	G406		11-20-23	1320	4	1	2	1																						23110002-079
16	G407		11-20-23	1218	4	1	2	1																						23110002-080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS					
COF-23Q4 Rev 0	<i>J. Colp</i>	11-20	1645	<i>Justin Colp</i>	11/20/23	1145	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		

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: 6 of 7
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com		Address: see Section A		NPDES GROUND WATER DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST RCRA OTHER
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE: IL

ITEM #	Section D Required Client Information SAMPLE ID <small>(A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE</small>	Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW P PRODUCT SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TS	MATRIX C=COMB	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)										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 ₈	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
2	G411					11-20-23	1350	4	1	2	1																		23110002-082				
3	G1001							2	1	1																			23110002-083				
4	G1003							0																					23110002-084				
5	L202							20	12	3	1	3	1																23110002-085				
6	MW03D							0																					23110002-086				
7	MW12D							0																					23110002-087				
8	MW20S							0																					23110002-088				
9	NE Riser							0																					23110002-089				
10	R104							7	2	2	2	1																	23110002-090				
11	R201							6	2	1	2	1																	23110002-091				
12	R205					11-20-23	1439	6	2	1	2	1																	23110002-092				
13	SG-02							0																					23110002-093				
14	SG-03							0																					23110002-094				
15	SG-04							0																					23110002-095				
16	T127							5	2	1	1	1																	23110002-096				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0	J. Colp	11-20	1645	<i>Justin Colp</i>	11/20/23	1645	> z

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	<i>Justin Colp</i>		
SIGNATURE of SAMPLER:	<i>Justin Colp</i>	DATE Signed (MM/DD/YY):	11-20-23
Temp in °C	Received on ice (Y/N)	Customly Sealed Cooler (Y/N)	Samples Intact (Y/N)

2310002
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: Company: <u>Vistra Corp-Coffeen</u> Address: <u>134 CIPS Lane</u> <u>Coffeen, IL 62017</u> Email To: <u>Brian.Voelker@VistraCorp.com</u> Phone: <u>(217) 753-8911</u> Fax: _____ Requested Due Date/TAT: <u>10 day</u>		Section B Required Project Information: Report To: <u>Brian Voelker</u> Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u> John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com Purchase Order No.: _____ Project Name: _____ Project Number: <u>2285</u>		Section C Invoice Information: Attention: <u>Jason Stuckey</u> Company Name: <u>Vistra Corp</u> Address: <u>see Section A</u> Quote Reference: _____ Project Manager: _____ Profile #: _____		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: _____ STATE: <u>IL</u>		
---	--	---	--	--	--	---	--	--

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Matrix Codes DRINKING WATER DW WATER WW WASTE WATER SL PRODUCT OL SOIL/SOLID WP OIL AR WIPE OY AIR OT OTHER	MATRIX CODE (see valid codes to list)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							[Analysis Test] Y/N	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
					1	T128								5	2		1	1														
2	X201				11-20-23	1408	2	1	1	1																	23110002-098					
3	XPW01						2	1	1																		23110002-099					
4	XPW02						2	1	1																		23110002-100					
5	XSG-01						0																				23110002-101					
6	Field Blank						22	12	4	2	3	1															23110002-102					
7	G102 Duplicate						7	2	2	2		1															23110002-103					
8	G200 Duplicate						6	2	1	2		1															23110002-104					
9	G273 Duplicate						6	2	1	2		1															23110002-105					
10	G301 Duplicate				11-20-23	1042	2	1	1																		23110002-106					
11	R201 Duplicate						6	2	1	2		1															23110002-107					
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0	J. Colp	11-20	1645	<i>(Signature)</i>	11/20/23	1045	Y	Z	

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>Justin Colp</u>							
SIGNATURE of SAMPLER: <i>(Signature)</i> DATE Signed (MM/DD/YY): <u>11-20-23</u>							

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A			
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	
						STATE: IL	

ITEM #	Section D Required Client Information	Matrix	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106						
1	G279						6	2	1	2		1											X															23110002-049
2	G280						6	2	1	2		1											X	X			X										23110002-050	
3	G281						4	1		2		1										X	X				X										23110002-051	
4	G283						2	1		1														X				X									23110002-052	
5	G284						2	1		1														X				X									23110002-053	
6	G285						2	1		1															X												23110002-054	
7	G286						0																				X										23110002-055	
8	G288						0																				X										23110002-056	
9	G301						2	1		1													X				X										23110002-057	
10	G302						2	1		1													X				X										23110002-058	
11	G303						11-21-23			1128		2	1		1								X				X										23110002-059	
12	G305						2	1		1													X				X										23110002-060	
13	G306						2	1		1													X				X										23110002-061	
14	G307						11-21-23			0937		2	1		1								X				X										23110002-062	
15	G307D						2	1		1													X				X										23110002-063	
16	G308						2	1		1													X				X										23110002-064	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																					
COF-23Q4 Rev 0		<i>J. Colp</i>			11-21		1220		<i>Mary Kemp</i>				11/21/23		1220		#5 ① z																					

*PH: 90719/79929 on 11/21
(9373)
Added HNO₃ to G303
added NaOH(81662) to G401
OK HS*

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>JUSTIN Colp</i>		DATE Signed (MM/DD/YY): 11-21-23	
SIGNATURE of SAMPLER: <i>[Signature]</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

BOOKING NO:
COF-845-102

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		<table border="1"> <tr> <td>Page: 5</td> <td>of</td> <td>7</td> </tr> </table>		Page: 5	of	7
Page: 5	of	7								
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey						
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp						
Email To: Brian.Voelker@VistraCorp.com		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A						
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Quote Reference:		REGULATORY AGENCY				
Requested Due Date/TAT: 10 day		Project Name:		Project Manager:		NPDES GROUND WATER DRINKING WATER				
Project Number: 2285		Project #:		Site Location:		UST RCRA OTHER				
				STATE:		IL				

ITEM #	Section D Required Client Information	Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT OIL SOIL/SOLID WP AR TS WIPE AIR OTHER	MATRIX (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	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-WPCP-102	COF-WPCP-103-104			COF-WPCP-106
1		G309						0																					23110002-065			
2		G310						2	1	1																			23110002-066			
3		G312						2	1	1																			23110002-067			
4		G313						2	1	1																			23110002-068			
5		G314						2	1	1																			23110002-069			
6		G314D						2	1	1																			23110002-070			
7		G315			11-21-23	1037		2	1	1																			23110002-071			
8		G316						2	1	1																			23110002-072			
9		G317						0																					23110002-073			
10		G401			11-21-23	0924		4	1	2	1																		23110002-074			
11		G402			11-21-23	0837		4	1	2	1																		23110002-075			
12		G403						4	1	2	1																		23110002-076			
13		G404			11-21-23	1007		4	1	2	1																		23110002-077			
14		G405			11-21-23	1032		4	1	2	1																		23110002-078			
15		G406						4	1	2	1																		23110002-079			
16		G407						4	1	2	1																		23110002-080			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS													
COF-23Q4 Rev 0	J. Colp	11-21	1230	Mary Kemp	11/21/23	1220	> z													
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td rowspan="2">Temp in °C</td> <td rowspan="2">Received on ice (Y/N)</td> <td rowspan="2">Custody Sealed Cooler (Y/N)</td> <td rowspan="2">Samples intact (Y/N)</td> </tr> <tr> <td>PRINT Name of SAMPLER:</td> <td>Justin Colp</td> </tr> <tr> <td>SIGNATURE of SAMPLER:</td> <td><i>Justin Colp</i></td> <td>DATE Signed (MM/DD/YY):</td> <td colspan="3">11-21-23</td> </tr> </table>							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>Justin Colp</i>	DATE Signed (MM/DD/YY):	11-21-23		
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 Colp																			
SIGNATURE of SAMPLER:	<i>Justin Colp</i>	DATE Signed (MM/DD/YY):	11-21-23																	

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: 7 of 7
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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 #:		

ITEM #	Section D Required Client Information SAMPLE ID <small>(A-Z, 0-9 / .)</small> Sample IDs MUST BE UNIQUE	VENUE MATRIX CODES DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT SOILSOLID SL OIL WP WIPE AR AIR OT OTHER TS	MATRIX (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N [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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	T128						5	2	1	1																					23110002-097	
2	X201						2	1		1																					23110002-098	
3	XPW01						2	1		1																					23110002-099	
4	XPW02						2	1		1																					23110002-100	
5	XSG-01						0																								23110002-101	
6	Field Blank					11-21-23	1036	22	12	4	2	3	1																		23110002-102	
7	G102 Duplicate							7	2	2	2		1																		23110002-103	
8	G200 Duplicate							6	2	1	2		1																		23110002-104	
9	G273 Duplicate							6	2	1	2		1																		23110002-105	
10	G301 Duplicate							2	1		1																				23110002-106	
11	R201 Duplicate							6	2	1	2		1																		23110002-107	
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q4 Rev 0	<i>J. Colp</i>	11-21	1220	<i>Mary Kemp</i>	11/21/23	1220		Y	Z	

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>Justin Colp</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:		REGULATORY AGENCY	
Company: <u>Vistra Corp-Coffeen</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES GROUND WATER DRINKING WATER	
Address: <u>134 CIPS Lane</u> <u>Coffeen, IL 62017</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u> <u>John Romang - John.Romang@vistracorp.com</u> <u>Scott Bell- Michael.Bell@vistracorp.com</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:		Site Location STATE: <u>IL</u>	
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:			
Requested Due Date/FAT: <u>10 day</u>		Project Number: <u>2285</u>		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 SOL/SOLID SL CL WIPE WP AR 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)										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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
2	X201						2	1		1												X								23110002-098		
3	XPW01						2	1		1						X														23110002-099		
4	XPW02						2	1		1						X														23110002-100		
5	XSG-01						0									X														23110002-101		
6	Field Blank						22	12	4	2	3	1				X	X	X	X	X	X	X	X	X	X	X	X			23110002-102		
7	G102 Duplicate						7	2	2	2	1								X											23110002-103		
8	G200 Duplicate						6	2	1	2	1								X											23110002-104		
9	G273 Duplicate						6	2	1	2	1									X			X							23110002-105		
10	G301 Duplicate						2	1		1						X														23110002-106		
11	R201 Duplicate						6	2	1	2	1								X				X							23110002-107		
12	G211 (resample)		WT	G			1	1											X				X							23110002-108		
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0 (resampling, only)	<u>J. Colp</u>	<u>12-6</u>	<u>1307</u>	<u>Smol, Delabels</u>	<u>12/6/23</u>	<u>1307</u>	<u>#2</u> 7.8 z

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>Justin Colp</u>				
SIGNATURE of SAMPLER:	<u>[Signature]</u>	DATE Signed (MM/DD/YY):	<u>12-6-23</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:

Section B

Required Project Information:

Section C

Invoice Information:

Company: Vistra Corp-Coffeen	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 134 CIPS Lane Coffeen, IL 62017	Copy To: Sam Davies-samantha.davies@vistracorp.com	Company Name: Vistra Corp
Email To: Brian.Voelker@VistraCorp.com	John Romang - John.Romang@vistracorp.com Scott Bell - Michael.Bell@vistracorp.com	Address: see Section A
Phone: (217) 753-8911 Fax:	Purchase Order No.:	Quote Reference:
Requested Due Date/TAT: 10 day	Project Name:	Project Manager:
	Project Number: 2285	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 DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives												Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.
						MATRIX CODE (see valid codes to left)												Analysis Test											
						DRINKING WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS	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-WPCP-102	COF-WPCP-103-104		
1		G101			5 2 1 1 1																							23110002-001	
2		G102			7 2 2 2 1																							23110002-002	
3		G103			7 2 2 2 1																							23110002-003	
4		G105			7 2 2 2 1																							23110002-004	
5		G106			7 2 2 2 1																							23110002-005	
6		G107			5 2 1 1 1																							23110002-006	
7		G108			5 2 1 1 1																							23110002-007	
8		G109			5 2 1 1 1																							23110002-008	
9		G110			5 2 1 1 1																							23110002-009	
10		G111			5 2 1 1 1																							23110002-010	
11		G119			5 2 1 1 1																							23110002-011	
12		G120			5 2 1 1 1																							23110002-012	
13		G121			5 2 1 1 1																							23110002-013	
14		G122			5 2 1 1 1																							23110002-014	
15		G123			5 2 1 1 1																							23110002-015	
16		G124	12-7-23	0913	5 2 1 1 1																							23110002-016	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0	J-Cob	12-7	1255	JMWP	12/7/23	1255	#5	Ⓢ	N

Added HNO₃(949114) to
G275D UM 12/7
PH:90719

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Justin Cob	DATE Signed (MM/DD/YY):	12-7-23
SIGNATURE of SAMPLER:	[Signature]	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:		REGULATORY AGENCY	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER	
Address: Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		Site Location IL	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL	
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 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							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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	
1		G213					6	2	1	2	1																						23110002-033
2		G214					6	2	1	2	1											X										23110002-034	
3		G215					6	2	1	2	1				X																	23110002-035	
4		G216					6	2	1	2	1												X									23110002-036	
5		G217					6	2	1	2	1				X																	23110002-037	
6		G218					6	2	1	2	1				X																	23110002-038	
7		G270					6	2	1	2	1				X	X					X	X	X	X								23110002-039	
8		G271					6	2	1	2	1					X									X	X						23110002-040	
9		G272					6	2	1	2	1													X	X							23110002-041	
10		G273					6	2	1	2	1					X							X	X								23110002-042	
11		G274					6	2	1	2	1													X	X							23110002-043	
12		G275					6	2	1	2	1												X	X								23110002-044	
13	510002-045	G275D				12-7-23	0913	2	1	1													X	X								23110002-045	
14		G276					6	2	1	2	1														X	X							23110002-046
15		G277					6	2	1	2	1														X	X							23110002-047
16		G278					6	2	1	2	1															X							23110002-048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0	J. Colp	12-7	1255	[Signature]	12/7/23	1255	(S) Z

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jason Colp	DATE Signed (MM/DD/YY):	12-7-23
SIGNATURE of SAMPLER:	[Signature]		

January 10, 2024

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-23Q4

WorkOrder: 23110003

Dear Eric Bauer:

TEKLAB, INC received 58 samples on 12/7/2023 12:55:00 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: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	61
Receiving Check List	63
Chain of Custody	Appended

Definitions

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

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: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

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

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Cooler Receipt Temp: 6.0 °C

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

G275, G275D, G277, G284, and G312 could not be collected; the wells were dry.

G275D was resampled per Ramboll's request to re-attempt dry wells. EAH 12/7/23

Ra226/228 analyses were performed by Eurofins St. Louis. See attached report for results and QC.

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: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	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 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-001

Client Sample ID: G151

Matrix: GROUNDWATER

Collection Date: 11/15/2023 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:51	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-002

Client Sample ID: G152

Matrix: GROUNDWATER

Collection Date: 11/20/2023 8:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:51	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-003

Client Sample ID: G153

Matrix: GROUNDWATER

Collection Date: 11/15/2023 13:38

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:51	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-004

Client Sample ID: G154

Matrix: GROUNDWATER

Collection Date: 11/15/2023 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:51	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-005
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G155
Collection Date: 11/15/2023 12:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:51	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-006
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G200
Collection Date: 11/14/2023 10:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:51	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-007

Client Sample ID: G206

Matrix: GROUNDWATER

Collection Date: 11/15/2023 14:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:52	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-008
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G206D
Collection Date: 11/17/2023 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:52	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-009
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24

Client Sample ID: G209

Collection Date: 11/16/2023 14:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:52	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-010

Client Sample ID: G212

Matrix: GROUNDWATER

Collection Date: 11/16/2023 13:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:52	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-011
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G213
Collection Date: 11/16/2023 12:48

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:50	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-012
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G215
Collection Date: 11/16/2023 11:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:50	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-013

Client Sample ID: G217

Matrix: GROUNDWATER

Collection Date: 11/16/2023 10:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:50	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-014
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G218
Collection Date: 11/16/2023 10:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:50	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-015
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G270
Collection Date: 11/17/2023 9:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:48	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-016

Client Sample ID: G271

Matrix: GROUNDWATER

Collection Date: 11/17/2023 9:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:48	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-017

Client Sample ID: G273

Matrix: GROUNDWATER

Collection Date: 11/17/2023 10:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:48	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-019

Client Sample ID: G275D

Matrix: GROUNDWATER

Collection Date: 12/07/2023 9:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/04/2024 11:44	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-020

Client Sample ID: G276

Matrix: GROUNDWATER

Collection Date: 11/17/2023 11:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:48	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-022

Client Sample ID: G279

Matrix: GROUNDWATER

Collection Date: 11/17/2023 12:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:49	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-023
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G280
Collection Date: 11/20/2023 9:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 15:49	R341573



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-024
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G281
Collection Date: 11/20/2023 8:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:00	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-025
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24

Client Sample ID: G283

Collection Date: 11/20/2023 10:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:00	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-027

Client Sample ID: G285

Matrix: GROUNDWATER

Collection Date: 11/20/2023 11:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:00	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-028

Client Sample ID: G301

Matrix: GROUNDWATER

Collection Date: 11/20/2023 10:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:00	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-029
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G302
Collection Date: 11/20/2023 12:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:00	R341573



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-030

Client Sample ID: G303

Matrix: GROUNDWATER

Collection Date: 11/21/2023 11:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:01	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-031
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G305
Collection Date: 11/17/2023 10:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:02	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-032

Client Sample ID: G306

Matrix: GROUNDWATER

Collection Date: 11/17/2023 12:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:02	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-033

Client Sample ID: G307

Matrix: GROUNDWATER

Collection Date: 11/21/2023 9:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:02	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-034

Client Sample ID: G307D

Matrix: GROUNDWATER

Collection Date: 11/17/2023 11:38

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:02	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-035

Client Sample ID: G308

Matrix: GROUNDWATER

Collection Date: 11/17/2023 10:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:02	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-036

Client Sample ID: G310

Matrix: GROUNDWATER

Collection Date: 11/20/2023 9:49

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:02	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-038

Client Sample ID: G313

Matrix: GROUNDWATER

Collection Date: 11/20/2023 14:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-039

Client Sample ID: G314

Matrix: GROUNDWATER

Collection Date: 11/20/2023 15:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-040

Client Sample ID: G314D

Matrix: GROUNDWATER

Collection Date: 11/20/2023 14:49

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2
COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-041
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G315
Collection Date: 11/21/2023 10:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-042

Client Sample ID: G316

Matrix: GROUNDWATER

Collection Date: 11/20/2023 13:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-043

Client Sample ID: G401

Matrix: GROUNDWATER

Collection Date: 11/21/2023 9:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-044
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G402
Collection Date: 11/21/2023 8:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-045

Client Sample ID: G403

Matrix: GROUNDWATER

Collection Date: 11/20/2023 11:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	01/05/2024 16:12	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-046

Client Sample ID: G404

Matrix: GROUNDWATER

Collection Date: 11/21/2023 10:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:10	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-047
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G405
Collection Date: 11/21/2023 10:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:10	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-048
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G406
Collection Date: 11/20/2023 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:11	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-049

Client Sample ID: G407

Matrix: GROUNDWATER

Collection Date: 11/20/2023 12:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:11	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-050
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G410
Collection Date: 11/20/2023 12:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:11	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-051
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G411
Collection Date: 11/20/2023 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:11	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-052

Client Sample ID: G1001

Matrix: GROUNDWATER

Collection Date: 11/14/2023 11:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:11	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab ID: 23110003-053

Client Sample ID: R201

Matrix: GROUNDWATER

Collection Date: 11/14/2023 10:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:11	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-054

Client Sample ID: Field Blank

Matrix: GROUNDWATER

Collection Date: 11/21/2023 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:09	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-055

Client Sample ID: G200 Duplicate

Matrix: GROUNDWATER

Collection Date: 11/14/2023 10:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:09	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-056

Client Sample ID: G273 Duplicate

Matrix: GROUNDWATER

Collection Date: 11/17/2023 10:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:03	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll
Client Project: COF-23Q4
Lab ID: 23110003-057
Matrix: GROUNDWATER

Work Order: 23110003
Report Date: 10-Jan-24
Client Sample ID: G301 Duplicate
Collection Date: 11/20/2023 10:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:03	R341573



Laboratory Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 COF-845-102

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Lab ID: 23110003-058

Client Sample ID: R201 Duplicate

Matrix: GROUNDWATER

Collection Date: 11/14/2023 10:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/18/2023 12:03	R341573



Sample Summary

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23110003-001	G151	Groundwater	1	11/15/2023 11:40
23110003-002	G152	Groundwater	1	11/20/2023 8:30
23110003-003	G153	Groundwater	1	11/15/2023 13:38
23110003-004	G154	Groundwater	1	11/15/2023 12:55
23110003-005	G155	Groundwater	1	11/15/2023 12:16
23110003-006	G200	Groundwater	1	11/14/2023 10:01
23110003-007	G206	Groundwater	1	11/15/2023 14:31
23110003-008	G206D	Groundwater	1	11/17/2023 8:42
23110003-009	G209	Groundwater	1	11/16/2023 14:39
23110003-010	G212	Groundwater	1	11/16/2023 13:12
23110003-011	G213	Groundwater	1	11/16/2023 12:48
23110003-012	G215	Groundwater	1	11/16/2023 11:52
23110003-013	G217	Groundwater	1	11/16/2023 10:43
23110003-014	G218	Groundwater	1	11/16/2023 10:13
23110003-015	G270	Groundwater	1	11/17/2023 9:13
23110003-016	G271	Groundwater	1	11/17/2023 9:42
23110003-017	G273	Groundwater	1	11/17/2023 10:37
23110003-018	G275	Groundwater	1	11/17/2023 0:00
23110003-019	G275D	Groundwater	1	12/07/2023 9:13
23110003-020	G276	Groundwater	1	11/17/2023 11:34
23110003-021	G277	Groundwater	1	11/17/2023 0:00
23110003-022	G279	Groundwater	1	11/17/2023 12:03
23110003-023	G280	Groundwater	1	11/20/2023 9:50
23110003-024	G281	Groundwater	1	11/20/2023 8:56
23110003-025	G283	Groundwater	1	11/20/2023 10:34
23110003-026	G284	Groundwater	1	11/17/2023 0:00
23110003-027	G285	Groundwater	1	11/20/2023 11:02
23110003-028	G301	Groundwater	1	11/20/2023 10:42
23110003-029	G302	Groundwater	1	11/20/2023 12:22
23110003-030	G303	Groundwater	1	11/21/2023 11:28
23110003-031	G305	Groundwater	1	11/17/2023 10:55
23110003-032	G306	Groundwater	1	11/17/2023 12:26
23110003-033	G307	Groundwater	1	11/21/2023 9:37
23110003-034	G307D	Groundwater	1	11/17/2023 11:38
23110003-035	G308	Groundwater	1	11/17/2023 10:11
23110003-036	G310	Groundwater	1	11/20/2023 9:49
23110003-037	G312	Groundwater	1	11/17/2023 0:00
23110003-038	G313	Groundwater	1	11/20/2023 14:04
23110003-039	G314	Groundwater	1	11/20/2023 15:24



Sample Summary

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

Client: Ramboll
Client Project: COF-23Q4

Work Order: 23110003
Report Date: 10-Jan-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23110003-040	G314D	Groundwater	1	11/20/2023 14:49
23110003-041	G315	Groundwater	1	11/21/2023 10:37
23110003-042	G316	Groundwater	1	11/20/2023 13:21
23110003-043	G401	Groundwater	1	11/21/2023 9:24
23110003-044	G402	Groundwater	1	11/21/2023 8:37
23110003-045	G403	Groundwater	1	11/20/2023 11:41
23110003-046	G404	Groundwater	1	11/21/2023 10:07
23110003-047	G405	Groundwater	1	11/21/2023 10:32
23110003-048	G406	Groundwater	1	11/20/2023 13:20
23110003-049	G407	Groundwater	1	11/20/2023 12:18
23110003-050	G410	Groundwater	1	11/20/2023 12:50
23110003-051	G411	Groundwater	1	11/20/2023 13:50
23110003-052	G1001	Groundwater	1	11/14/2023 11:36
23110003-053	R201	Groundwater	1	11/14/2023 10:37
23110003-054	Field Blank	Groundwater	1	11/21/2023 10:36
23110003-055	G200 Duplicate	Groundwater	1	11/14/2023 10:01
23110003-056	G273 Duplicate	Groundwater	1	11/17/2023 10:37
23110003-057	G301 Duplicate	Groundwater	1	11/20/2023 10:42
23110003-058	R201 Duplicate	Groundwater	1	11/14/2023 10:37



Receiving Check List

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

Carrier: Justin Colp

Received By: LM

Completed by:

Reviewed by:

On:

On:

15-Nov-23

21-Nov-23

Lindsey Maddox

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 6.0
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.

pH strip #90719. - lmaddox - 11/15/2023 11:14:26 AM

pH strip #90719. - amberdilallo - 11/16/2023 8:57:08 AM

Additional Nitric Acid (93773) was needed in G151, G153, and G155 upon arrival at the laboratory. - amberdilallo - 11/16/2023 8:57:17 AM

Samples collected on 11/15/23 were delivered to the laboratory on 11/15/23 at 1600 (on ice - 17.2C - LTG5). - HW/ERH 11/16/23

pH strip #90719. - lmaddox - 11/16/2023 4:50:41 PM

pH strip #90719. - amberdilallo - 11/17/2023 8:48:35 AM

Samples collected on 11/16/23 (L202) were delivered to the laboratory on 11/15/23 at 1500 (on ice - 17.6C - LTG1). - AMD 11/16/23

pH strip #90719. - amberdilallo - 11/17/2023 8:48:40 AM

Additional Nitric Acid (93773) was needed in G209 and G218 upon arrival at the laboratory. - amberdilallo - 11/17/2023 8:48:42 AM

Samples collected on 11/16/23 were delivered to the laboratory on 11/16/23 at 1615 (on ice - 3.6C - LTG1). - AMD 11/17/23

Samples collected on 11/17/23 were delivered to the laboratory on 11/17/23 at 1600 (on ice - 14.4C - LTG1). - LAM 11/20/23



Receiving Check List

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

Client: Ramboll

Work Order: 23110003

Client Project: COF-23Q4

Report Date: 10-Jan-24

pH strip #90719. - Imaddox - 11/20/2023 9:24:39 AM

pH strip #90719. - amberdilallo - 11/21/2023 8:54:40 AM

Additional Nitric Acid (93773) was needed in G314, G314D, G285, and G407 upon arrival at the laboratory. - amberdilallo - 11/21/2023 8:54:41 AM

Samples collected on 11/20/23 were delivered to the laboratory on 11/20/23 at 1645 (on ice - 12.2C - LTG5). - AMD 11/20/23

Sample collected on 12/7/23 were delivered to the laboratory on 12/7/23 at 1255 (on ice - 10.0C - LTG5). pH 90719. Additional nitric acid (94914) was needed upon arrival at the laboratory. - MEK 12/7/23

23110003

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com		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 #:	

Page: 1 of 7

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 DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/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)										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 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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106		
																																	DATE	TIME
1		G101			11-14-23	1611																												N/A
2		G102				1537																												N/A
3		G103				1513																												N/A
4		G105				1422																												N/A
5		G106				1354																												N/A
6		G107				1333																												N/A
7		G108				1315																												N/A
8		G109				1259																												N/A
9		G110				1241																												N/A
10		G111				1159																												N/A
11		G119																																N/A
12		G120																																N/A
13		G121																																N/A
14		G122																																N/A
15		G123																																N/A
16		G124																																N/A

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0 Radium 226/228, only.	J. Colp	11/14	1745	March Wan	11/14	1745	

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>				
DATE Signed (MM/DD/YY):					
11-14-23 1745					

P.H.V 90719/79929 HW 11/19/23

COF-23Q4 Rev 0

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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				STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	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-WPCP-102	COF-WPCP-103-104			COF-WPCP-106
1	G125																												N/A	
2	G126																												N/A	
3	G151					2		2																					23110003-001	
4	G152					2		2																					23110003-002	
5	G153					2		2																					23110003-003	
6	G154					2		2																					23110003-004	
7	G155					2		2																					23110003-005	
8	G200		11-14-23	1001		2		2																					23110003-006	
9	G206					2		2																					23110003-007	
10	G206D					2		2																					23110003-008	
11	G207		11-14-23	0849																									N/A	
12	G208																												N/A	
13	G209					2		2																					23110003-009	
14	G210																												N/A	
15	G211																												N/A	
16	G212					2		2																					23110003-010	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q4 Rev 0 Radium 226/228, only.		<i>J. Gelp</i>		11-14	1745	<i>[Signature]</i>		11/14/23	1745	#5	Ⓟ	z	4

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	<i>Justin Gelp</i>		
SIGNATURE of SAMPLER:	<i>[Signature]</i>		
DATE Signed (MM/DD/YY):	11-14-23 1745		
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.

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-Coffeen Address: 134 CIPS Lane Coffeen, IL 62017 Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day	Report To: Brian Voelker Copy To: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com Purchase Order No.: Project Name: Project Number: 2285	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	Valid Matrix Codes MATRIX CODE	DATE	TIME	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.	
								MATRIX TYPE (G=GRAB C=COMP)	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
1	G410						2		2																	23110003-050			
2	G411						2		2																	23110003-051			
3	G1001		11-14-23	1136			2		2												X					23110003-052			
4	G1003																				X					N/A			
5	L202																					X				N/A			
6	MW03D																					X				N/A			
7	MW12D																					X	X			N/A			
8	MW20S																									N/A			
9	NE Riser																									N/A			
10	R104		11-14-23	1441																						N/A			
11	R201		11-14-23	1037			2		2																	23110003-053			
12	R205																									N/A			
13	SG-02																				X	X				N/A			
14	SG-03																				X	X				N/A			
15	SG-04																				X	X	X			N/A			
16	T127																									N/A			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q4 Rev 0 Radium 226/228, only.	<i>J. Cole</i>	11-14	1745	<i>Dorah Wan</i>	11/14	1745	y	z

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>Justin Cole</i>		DATE Signed (MM/DD/YYYY): <i>11-14-23 1745</i>	
SIGNATURE of SAMPLER: <i>[Signature]</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

17.2°
 23-11-2023
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASHPOND NO. 2
 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: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Address: Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST RCRA OTHER	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Residual Chlorine (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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	
1	G101																												N/A		
2	G102																													N/A	
3	G103																													N/A	
4	G105																													N/A	
5	G106																													N/A	
6	G107																													N/A	
7	G108																													N/A	
8	G109																													N/A	
9	G110																													N/A	
10	G111																													N/A	
11	G119		11-15-23	0952																										N/A	
12	G120			0937																										N/A	
13	G121			0923																										N/A	
14	G122			0906																										N/A	
15	G123			0847																										N/A	
16	G124			0847																										N/A	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q4 Rev 0		J. Colp		11-15	1600	Justin Colp		11/15	1600	17.2	Y	N	Y
Radium 226/228, only.													

PH/ 90119. Added HNO3 (93773) to
 G101, G103, G105, G106, G108, G110, G111, G119, G120, G121, G122, G123, G124
 1-2 2-2 1-2 2-2
 #W 11/10/23

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 Colp	SIGNATURE of SAMPLER: <i>Justin Colp</i>				
DATE Signed (MM/DD/YY): 11-15-23					

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:		Page: 2 of 7	
Company: Vistra Corp-Coffeeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST RCRA OTHER	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		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		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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106		
1	G125				11-15-23	027																											N/A	
2	G126					1111																											N/A	
3	G151						2																										23110003-001	
4	G152						2																										23110003-002	
5	G153						2																										23110003-003	
6	G154						2																										23110003-004	
7	G155						2																										23110003-005	
8	G200						2																										23110003-006	
9	G206					11-15-23	2																										23110003-007	
10	G206D						2																										23110003-008	
11	G207																																	N/A
12	G208																																	N/A
13	G209						2																											23110003-009
14	G210																																	N/A
15	G211																																	N/A
16	G212						2																											23110003-010

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0 Radium 226/228, only.		J. Colp		11-15	1600	Justin Colp		11/16	11000	Y Z		

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>Justin Colp</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: 7 of 7

Company: Vistra Corp-Coffeen	Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 134 CIPS Lane	Copy To: Sam Davies-samantha.davies@vistracorp.com	Company Name: Vistra Corp			
Coffeen, IL 62017	John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	UST	RCRA	OTHER
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	Site Location		IL
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test (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
1	T128		11-15-23 1011																		N/A	
2	X201																					N/A
3	XPW01																					N/A
4	XPW02																					N/A
5	XSG-01																					N/A
6	Field Blank				2		2															23110003-054
7	G102 Duplicate																					N/A
8	G200 Duplicate				2		2															23110003-055
9	G273 Duplicate				2		2															23110003-056
10	G301 Duplicate				2		2															23110003-057
11	R201 Duplicate				2		2															23110003-058
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0	J. Colp	11-15	1600	<i>Justin Colp</i>	11/15	1600	Y Z
Radium 226/228, only.							

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>Justin Colp</i>		DATE Signed (MM/DD/YY):	11-15-23		

COF-845-002

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:	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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	Valid Matrix Codes MATRIX CODE	COLLECTED DATE 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-WPCP-102
1	G125																									N/A	
2	G126																									N/A	
3	G151				2		2																	X		23110003-001	
4	G152				2		2																		X	23110003-002	
5	G153				2		2																		X	23110003-003	
6	G154				2		2																	X	X	23110003-004	
7	G155				2		2																	X	X	23110003-005	
8	G200				2		2																X	X	X	23110003-006	
9	G206				2		2																	X	X	23110003-007	
10	G206D		11-17-23 0842		2		2																		X	X	23110003-008
11	G207																								X	X	N/A
12	G208		11-17-23 0821																						X	X	N/A
13	G209				2		2																		X	X	23110003-009
14	G210																								X	X	N/A
15	G211																								X	X	N/A
16	G212				2		2																		X	X	23110003-010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0 Radium 226/228, only.	J. Colp	11-17	1400	[Signature]	11/17	1400	144 > z 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:	[Signature]				
SIGNATURE of SAMPLER:	[Signature]	11-17-23			

PH: 90719 on 11/20

COF-23Q4
2311003

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: 3 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A			
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 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		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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106			
1	G213						2																												23110003-011
2	G214																																		N/A
3	G215						2																												23110003-012
4	G216																																		N/A
5	G217						2																												23110003-013
6	G218						2																												23110003-014
7	G270					11-17-23	0913	2		2																									23110003-015
8	G271						0942	2		2																									23110003-016
9	G272						1019																												N/A
10	G273						1037	2		2																									23110003-017
11	G274						1100																												N/A
12	G275						064	2		2																									23110003-018
13	G275D						064	2		2																									23110003-019
14	G276						1134	2		2																									23110003-020
15	G277						064	2		2																									23110003-021
16	G278																																		N/A

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q4 Rev 0 Radium 226/228, only.	<i>J. Colp</i>	11-17	1400	<i>Clarah Wa</i>	11/17	1400	>	z

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):	11-17-23		

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES		
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		GROUND WATER		
Email To: Brian.Voelker@VistraCorp.com		John Romang - John.Romang@vistracorp.com		Address: see Section A		DRINKING WATER		
Phone: (217) 753-8911		Purchase Order No.:		Quote Reference:		UST		
Requested Due Date/TAT: 10 day		Project Name:		Project Manager:		RCRA		
		Project Number: 2285		Profile #:		OTHER		
						Site Location		IL
						STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRAINING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL CIL CL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	
1		G279			11-17-23	1203	2	2																									23110003-022
2		G280					2	2														X	X										23110003-023
3		G281					2	2														X	X										23110003-024
4		G283					2	2																X									23110003-025
5		G284			11-17-23	0124	2	2																X									23110003-026
6		G285					2	2																X									23110003-027
7		G286																						X									N/A
8		G288																						X									N/A
9		G301					2	2																									23110003-028
10		G302					2	2																	X								23110003-029
11		G303					2	2																	X								23110003-030
12		G305			11-17-23	1055	2	2																	X								23110003-031
13		G306			11-17-23	1226	2	2																	X								23110003-032
14		G307					2	2																	X								23110003-033
15		G307D			11-17-23	1138	2	2																	X								23110003-034
16		G308			11-17-23	1011	2	2																	X								23110003-035

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0	J. Colp	11-17	1400	Atarhwa	11/17	1400	>	z	
Radium 226/228, only.									

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:	[Signature]				
DATE Signed (MM/DD/YYYY):	11-17-23				

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-Coffeen</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>	
Address: <u>134 CIPS Lane</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp</u>	
<u>Coffeen, IL 62017</u>		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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>		Project Number: <u>2285</u>		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 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=COMPF)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	
1		G309																															N/A
2		G310					2		2																								23110003-036
3		G312				11-17-23		2	2																								23110003-037
4		G313					2	2																									23110003-038
5		G314					2	2																									23110003-039
6		G314D					2	2																									23110003-040
7		G315					2	2																									23110003-041
8		G316					2	2																									23110003-042
9		G317																															N/A
10		G401					2	2																									23110003-043
11		G402					2	2																									23110003-044
12		G403					2	2																									23110003-045
13		G404					2	2																									23110003-046
14		G405					2	2																									23110003-047
15		G406					2	2																									23110003-048
16		G407					2	2																									23110003-049
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																
COF-23Q4 Rev 0			J. Colp			11-17		1400		Justin Colp			11/17		1400		> z																
Radium 226/228, only.																																	

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: <u>Justin Colp</u>							
SIGNATURE of SAMPLER: <u>[Signature]</u>							
DATE Signed (MM/DD/YY): <u>11-17-23</u>							

COF-23Q4-003

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **7** of **7**

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Company Name: Vistra Corp 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	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test (Y/N)	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	T128																								N/A						
2	X201																									N/A					
3	XPW01		11-17-23	0939																						N/A					
4	XPW02		11-17-23	0902																						N/A					
5	XSG-01																									N/A					
6	Field Blank					2		2																		23110003-054					
7	G102 Duplicate																									N/A					
8	G200 Duplicate					2		2																		23110003-055					
9	G273 Duplicate		11-17-23	1037		2		2																		23110003-056					
10	G301 Duplicate					2		2																		23110003-057					
11	R201 Duplicate					2		2																		23110003-058					
12																															
13																															
14																															
15																															
16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0 Radium 226/228, only.	<i>J. Colp</i>	11/17	1400	<i>Jason Stuckey</i>	11/17	1400	Y Z

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>Justin Colp</i>	DATE Signed (MM/DD/YY):	11-17-23		

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:		Page: 2 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		UST RCRA OTHER	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Analysis Test Y/N	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-WPCP-102			COF-WPCP-103-104
1	G125																													N/A
2	G126																													N/A
3	G151																													23110003-001
4	G152		11-20-23	0830	2																					X				23110003-002
5	G153				2																						X			23110003-003
6	G154				2																					X				23110003-004
7	G155				2																					X				23110003-005
8	G200				2																					X				23110003-006
9	G206				2																					X				23110003-007
10	G206D				2																					X				23110003-008
11	G207																									X				N/A
12	G208																									X				N/A
13	G209				2																					X				23110003-009
14	G210																									X				N/A
15	G211																									X				N/A
16	G212				2																					X				23110003-010

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q4 Rev 0		J. Colp		11-20	1645	<i>(Signature)</i>		11/20/23	1145	✓	
Radium 226/228, only.											

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>Justin Colp</i>	DATE Signed (MM/DD/YY):	11-20-23			

PH 90719
Added HNO₃ to G31, G34D, G285, G407
(9373) LTC 5
on 11/20

COF-846-1023

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 134 CIPS Lane		Copy To: Sara Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER		
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
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 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)											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	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-WPCP-102	COF-WPCP-103-104
1	G213				2		2																					23110003-011
2	G214																											N/A
3	G215							2																				23110003-012
4	G216																											N/A
5	G217				2		2																					23110003-013
6	G218				2		2																					23110003-014
7	G270				2		2								X		X			X	X	X						23110003-015
8	G271				2		2															X	X					23110003-016
9	G272																					X	X					N/A
10	G273				2		2															X	X					23110003-017
11	G274																					X	X					N/A
12	G275				2		2															X	X					23110003-018
13	G275D				2		2															X	X					23110003-019
14	G276				2		2															X	X					23110003-020
15	G277				2		2															X	X					23110003-021
16	G278																								X			N/A
								11-20-23	0931																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q4 Rev 0 Radium 226/228, only.		J. Colp		11-20	1645	Dorshuwa		11/20/23	1145	y z			
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: [Signature]													

COF-845-102 3

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		Site Location	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		IL	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE:	
Requested Due Date/TAT: 10 day		Project Number: 2285		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)										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-WPCP-102
1		G279					2		2									X												23110003-022
2		G280			11-20-23	0950	2		2								X	X												23110003-023
3		G281			↓	0956	2		2								X	X												23110003-024
4		G283				1034	2		2									X												23110003-025
5		G284					2		2									X												23110003-026
6		G285			11-20-23	1102	2		2									X												23110003-027
7		G286																												N/A
8		G288																												N/A
9		G301			11-20-23	1042	2		2								X													23110003-028
10		G302			11-20-23	1222	2		2								X													23110003-029
11		G303					2		2								X													23110003-030
12		G305					2		2								X													23110003-031
13		G306					2		2								X													23110003-032
14		G307					2		2								X													23110003-033
15		G307D					2		2								X													23110003-034
16		G308					2		2								X													23110003-035

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0 Radium 226/228, only.	J. Colp	11-20	1645	(Signature)	11/20/23	1645	>	z	

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)					
SIGNATURE of SAMPLER:	(Signature)		DATE Signed (MM/DD/YY):	11-20-23		

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER	
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		Site Location	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		IL	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE:	
Requested Due Date/TAT: 10 day		Project Number: 2285		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	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106				
																																	Y/N	Y/N	Y/N	Y/N
1	G309																																			N/A
2	G310				11-20-23	0949	2			2																										23110003-036
3	G312						2			2																										23110003-037
4	G313				11-20-23	1404	2			2																										23110003-038
5	G314				11-20-23	1524	2			2																										23110003-039
6	G314D				11-20-23	1449	2			2																										23110003-040
7	G315						2			2																										23110003-041
8	G316				11-20-23	1321	2			2																										23110003-042
9	G317																																			N/A
10	G401						2			2																										23110003-043
11	G402						2			2																										23110003-044
12	G403				11-20-23	1141	2			2																										23110003-045
13	G404						2			2																										23110003-046
14	G405						2			2																										23110003-047
15	G406				11-20-23	1320	2			2																										23110003-048
16	G407				11-20-23	1218	2			2																										23110003-049

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q4 Rev 0	J. Cole	11-20	1645	<i>[Signature]</i>	11/20/23	1645	Y	Z
Radium 226/228, only.								

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 Cole</i>						
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YY): <i>11-20-23</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: Company: Vistra Corp-Coffeen Address: 134 CIPS Lane Coffeen, IL 62017 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: Sam Davies-samantha.davies@vistracorp.com John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com 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: 6 of 7
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ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .)	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)										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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	
1	G410				11-20-23	1250	2		2																						23110003-050		
2	G411				11-20-23	1350	2		2																						23110003-051		
3	G1001						2		2																						23110003-052		
4	G1003																															N/A	
5	L202																															N/A	
6	MW03D																															N/A	
7	MW12D																															N/A	
8	MW20S																															N/A	
9	NE Riser																															N/A	
10	R104																															N/A	
11	R201						2		2																							N/A	
12	R205				11-20-23	1439																										23110003-053	
13	SG-02																															N/A	
14	SG-03																																N/A
15	SG-04																																N/A
16	T127																																N/A
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION					DATE		TIME		SAMPLE CONDITIONS													
COF-23Q4 Rev 0					J. Corp		11-20		1645		[Signature]					11/20/23		1645		y z													
Radium 226/228, only.																																	

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 Corp</i>							
SIGNATURE of SAMPLER: <i>[Signature]</i>				DATE Signed (MM/DD/YY): <i>11-20-23</i>			

COF-845-102
3

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp		UST RCRA OTHER		
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
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	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
1	T128																							N/A
2	X201		11-20-23	1408																				N/A
3	XPW01																							N/A
4	XPW02																							N/A
5	XSG-01																							N/A
6	Field Blank				2	2																		23110003-054
7	G102 Duplicate																							N/A
8	G200 Duplicate				2	2																		23110003-055
9	G273 Duplicate				2	2																		23110003-056
10	G301 Duplicate		11-20-23	1042	2	2																		23110003-057
11	R201 Duplicate				2	2																		23110003-058
12																								
13																								
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q4 Rev 0 Radium 226/228, only.	J. Colp	11-20	1645	<i>[Signature]</i>	11/20/23	11045	> =

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):	11-20-23		

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:		Page: 5 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location 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							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	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
1	G309																									N/A		
2	G310						2											X									23110003-036	
3	G312						2											X									23110003-037	
4	G313						2											X									23110003-038	
5	G314						2											X									23110003-039	
6	G314D						2											X									23110003-040	
7	G315					11-21-23	1037	2										X									23110003-041	
8	G316							2										X									23110003-042	
9	G317																										N/A	
10	G401					11-21-23	0924	2										X					X		X		23110003-043	
11	G402					11-21-23	0837	2										X					X		X		23110003-044	
12	G403							2										X					X		X		23110003-045	
13	G404					11-21-23	1007	2										X					X		X		23110003-046	
14	G405					11-21-23	1032	2										X					X		X		23110003-047	
15	G406							2										X					X		X		23110003-048	
16	G407							2										X					X		X		23110003-049	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
COF-23Q4 Rev 0		<i>J. Galp</i>		11-21		1220		<i>Mary Kemp</i>		11/21/23		1220		y z			
Radium 226/228, only.																	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>Justin Galp</i>		DATE Signed (MM/DD/YY): <i>11-21-23</i>	
SIGNATURE of SAMPLER: <i>Justin Galp</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:		<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: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey																			
Address: 134 CIPS Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp																			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		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 #:																			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	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-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
								DRINKING WATER WATER WASTE WATER PRODUCT SOLIDS OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS	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
1	T128																										N/A				
2	X201																										N/A				
3	XPW01											X															N/A				
4	XPW02											X															N/A				
5	XSG-01											X															N/A				
6	Field Blank			11-21-23	1036		2	2				X	X	X	X	X	X	X	X	X	X	X	X	X	X		23110003-054				
7	G102 Duplicate						2	2											X								N/A				
8	G200 Duplicate						2	2											X								23110003-055				
9	G273 Duplicate						2	2						X							X						23110003-056				
10	G301 Duplicate						2	2				X															23110003-057				
11	R201 Duplicate						2	2					X		X					X							23110003-058				
12																															
13																															
14																															
15																															
16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-23Q4 Rev 0	J. Colp	11-21	1220	Mary Kemp	11/21/23	1220	Y	Z
Radium 226/228, only.								

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>Justin Colp</i>		DATE Signed (MM/DD/YY): 11-21-23				

23110003
COF-23Q4-02

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-Coffeen		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 134 CIPS Lane		Copy To: Sam Davies-samaritha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		John Romang - John.Romang@vistracorp.com Scott Bell- Michael.Bell@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911	Fax:	Project Name:		Project Manager:		Site Location IL	
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	Preservatives										Analysis Test Y/N	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-945-101	COF-945-102	COF-945-103	COF-945-104	COF-WPCP-102	COF-WPCP-103-104		
1	G213					2																					23110003-011		
2	G214																										N/A		
3	G215					2																					23110003-012		
4	G216																										N/A		
5	G217					2																					23110003-013		
6	G218					2																					23110003-014		
7	G270					2								X		X					X	X	X				23110003-015		
8	G271					2										X					X	X					23110003-016		
9	G272																				X	X					N/A		
10	G273					2										X					X	X					23110003-017		
11	G274																				X	X					N/A		
12	G275					2										X					X	X					23110003-018		
13	G275D		12-7-23	0915		2										X					X	X					23110003-019		
14	G276					2										X					X	X					23110003-020		
15	G277					2										X					X	X					23110003-021		
16	G278																					X					N/A		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
COF-23Q4 Rev 0 Radium 226/228, only.	J. Gop	12-7	1255	<i>[Signature]</i>	12/7/23	1255	#5	⊙	z

Added HNO₃ (94914)
in 12/7
PH: 90719

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 Gop</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed (MM/DD/YY):		12-7-23			

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 1/9/2024 4:30:29 PM

JOB DESCRIPTION

Radium-226 and Radium-228
23110003

JOB NUMBER

160-52329-1

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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1/9/2024 4:30:29 PM

Authorized for release by
Erika Jordan, Project Manager
erika.jordan@et.eurofinsus.com
Designee for
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566



Table of Contents

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QC Sample Results	44
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Tracer Carrier Summary	53

Case Narrative

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-52329-1**Eurofins St. Louis****CASE NARRATIVE****Client: TekLab, Inc****Project: Radium-226 and Radium-228****Report Number: 160-52329**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

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.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

The method blank (MB) z-score is within limits, unless stated otherwise below.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

Reference the chain of custody and receipt report for any variations on receipt conditions.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

Receipt

The samples were received on 11/22/2023 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 5 coolers at receipt time were 13.9°C, 15.7°C, 16.7°C, 17.9°C and 18.2°C

Receipt Exceptions

The reference method requires samples to be preserved to a pH of <pH_value>. The following samples were received with insufficient preservation at a pH of 7: 23110003-009 (160-52329-9), 23110003-049 (160-52329-49) and 23110003-058 (160-52329-58). The samples were preserved to the appropriate pH in the laboratory.

Method 903.0 - Radium-226 (GFPC)

Samples 23110003-001 (52329-1), 23110003-002 (52329-2), 23110003-003 (52329-3), 23110003-004 (52329-4), 23110003-005 (52329-5), 23110003-006 (52329-6), 23110003-007 (52329-7), 23110003-008 (52329-8), 23110003-009 (52329-9), 23110003-010 (52329-10), 23110003-011 (52329-11), 23110003-012 (52329-12), 23110003-013 (52329-13), 23110003-014 (52329-14), 23110003-015 (52329-15), 23110003-016 (52329-16), 23110003-017 (52329-17), 23110003-019 (52329-19), 23110003-020 (52329-20), 23110003-022 (52329-22), 23110003-023 (52329-23), 23110003-024 (52329-24), 23110003-025 (52329-25), 23110003-027 (52329-27), 23110003-028 (52329-28), 23110003-029 (52329-29), 23110003-030 (52329-30), 23110003-031 (52329-31), 23110003-032 (52329-32), 23110003-033 (52329-33), 23110003-034 (52329-34), 23110003-035 (52329-35),

Eurofins St. Louis

Case Narrative

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-52329-1

Job ID: 160-52329-1 (Continued)

Eurofins St. Louis

23110003-036 (52329-36), 23110003-038 (52329-38), 23110003-039 (52329-39), 23110003-040 (52329-40), 23110003-041 (52329-41), 23110003-042 (52329-42), 23110003-043 (52329-43), 23110003-044 (52329-44), 23110003-045 (52329-45), 23110003-046 (52329-46), 23110003-047 (52329-47), 23110003-048 (52329-48), 23110003-049 (52329-49), 23110003-050 (52329-50), 23110003-051 (52329-51), 23110003-052 (52329-52), 23110003-053 (52329-53), 23110003-054 (52329-54), 23110003-055 (52329-55), 23110003-056 (52329-56), 23110003-057 (52329-57) and 23110003-058 (52329-58) were analyzed for Radium-226 (GFPC). The samples were prepared on 11/28/2023 and 12/12/2023 and analyzed on 12/27/2023, 1/5/2024 and 1/8/2024.

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

Method 904.0 - Radium-228 (GFPC)

Samples 23110003-001 (52329-1), 23110003-002 (52329-2), 23110003-003 (52329-3), 23110003-004 (52329-4), 23110003-005 (52329-5), 23110003-006 (52329-6), 23110003-007 (52329-7), 23110003-008 (52329-8), 23110003-009 (52329-9), 23110003-010 (52329-10), 23110003-011 (52329-11), 23110003-012 (52329-12), 23110003-013 (52329-13), 23110003-014 (52329-14), 23110003-015 (52329-15), 23110003-016 (52329-16), 23110003-017 (52329-17), 23110003-019 (52329-19), 23110003-020 (52329-20), 23110003-022 (52329-22), 23110003-023 (52329-23), 23110003-024 (52329-24), 23110003-025 (52329-25), 23110003-027 (52329-27), 23110003-028 (52329-28), 23110003-029 (52329-29), 23110003-030 (52329-30), 23110003-031 (52329-31), 23110003-032 (52329-32), 23110003-033 (52329-33), 23110003-034 (52329-34), 23110003-035 (52329-35), 23110003-036 (52329-36), 23110003-038 (52329-38), 23110003-039 (52329-39), 23110003-040 (52329-40), 23110003-041 (52329-41), 23110003-042 (52329-42), 23110003-043 (52329-43), 23110003-044 (52329-44), 23110003-045 (52329-45), 23110003-046 (52329-46), 23110003-047 (52329-47), 23110003-048 (52329-48), 23110003-049 (52329-49), 23110003-050 (52329-50), 23110003-051 (52329-51), 23110003-052 (52329-52), 23110003-053 (52329-53), 23110003-054 (52329-54), 23110003-055 (52329-55), 23110003-056 (52329-56), 23110003-057 (52329-57) and 23110003-058 (52329-58) were analyzed for Radium-228 (GFPC). The samples were prepared on 11/28/2023 and 12/12/2023 and analyzed on 12/18/2023, 1/4/2024 and 1/5/2024.

The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: 23110003-052 (160-52329-52) and 23110003-055 (160-52329-55). Analytical results are reported with the detection limit achieved.

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

Method Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Samples 23110003-001 (52329-1), 23110003-002 (52329-2), 23110003-003 (52329-3), 23110003-004 (52329-4), 23110003-005 (52329-5), 23110003-006 (52329-6), 23110003-007 (52329-7), 23110003-008 (52329-8), 23110003-009 (52329-9), 23110003-010 (52329-10), 23110003-011 (52329-11), 23110003-012 (52329-12), 23110003-013 (52329-13), 23110003-014 (52329-14), 23110003-015 (52329-15), 23110003-016 (52329-16), 23110003-017 (52329-17), 23110003-019 (52329-19), 23110003-020 (52329-20), 23110003-022 (52329-22), 23110003-023 (52329-23), 23110003-024 (52329-24), 23110003-025 (52329-25), 23110003-027 (52329-27), 23110003-028 (52329-28), 23110003-029 (52329-29), 23110003-030 (52329-30), 23110003-031 (52329-31), 23110003-032 (52329-32), 23110003-033 (52329-33), 23110003-034 (52329-34), 23110003-035 (52329-35), 23110003-036 (52329-36), 23110003-038 (52329-38), 23110003-039 (52329-39), 23110003-040 (52329-40), 23110003-041 (52329-41), 23110003-042 (52329-42), 23110003-043 (52329-43), 23110003-044 (52329-44), 23110003-045 (52329-45), 23110003-046 (52329-46), 23110003-047 (52329-47), 23110003-048 (52329-48), 23110003-049 (52329-49), 23110003-050 (52329-50), 23110003-051 (52329-51), 23110003-052 (52329-52), 23110003-053 (52329-53), 23110003-054 (52329-54), 23110003-055 (52329-55), 23110003-056 (52329-56), 23110003-057 (52329-57) and 23110003-058 (52329-58) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 12/27/2023 and 1/9/2024.

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

Eurofins St. Louis

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

Cooler Temp: Sampler: QC Level:

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

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#

Contact: Elizabeth Hurley
Email: ehurley@teklabinc.com
Billing/PO: 35307

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
	23110003-001	11/15/23 1140	HNO3	Groundwater
	23110003-002	11/20/23 0830	HNO3	Groundwater
	23110003-003	11/15/23 1338	HNO3	Groundwater
	23110003-004	11/15/23 1255	HNO3	Groundwater
	23110003-005	11/15/23 1216	HNO3	Groundwater
	23110003-006	11/14/23 1001	HNO3	Groundwater
	23110003-007	11/15/23 1431	HNO3	Groundwater
	23110003-008	11/17/23 0842	HNO3	Groundwater
	23110003-009	11/16/23 1439	HNO3	Groundwater
	23110003-010	11/16/23 1312	HNO3	Groundwater
	23110003-011	11/16/23 1248	HNO3	Groundwater

Ra226
 Ra226
 Ra228
 Ra226/228

Date/Time	Received By
11/22/23 1305	Sue Wagner

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization, and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)



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: QC Level:

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#

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35307

Phone:

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	Ra226/228	Ra226	Ra228
	23110003-012	11/16/23 1152	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-013	11/16/23 1043	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-014	11/16/23 1013	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-015	11/17/23 0913	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-016	11/17/23 0942	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-017	11/17/23 1037	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-018	Dry	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-019	Dry	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-020	11/17/23 1134	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-021	Dry	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-022	11/17/23 1203	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Relinquished By	Date/Time	Received By	Date/Time
<i>Elizabeth Hurley</i>	11/16/23	<i>Susan Weyman</i>	11/22/23 1305

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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: QC Level: 2

Project#: 23110003
 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.
 Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
 Requested Due Date: Billing/PO: 35307
 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	Ra226	Ra228	226/228
	23110003-034	11/17/23 1138	HNO3	Groundwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-035	11/17/23 1011	HNO3	Groundwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23110003-036	11/20/23 0949	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-037	Dry	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-038	11/20/23 1404	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-039	11/20/23 1524	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-040	11/20/23 1449	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-041	11/21/23 1037	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-042	11/20/23 1321	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-043	11/21/23 0924	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	23110003-044	11/21/23 0837	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

*Relinquished By: Date/Time: 11-21-23
 Received By: *Sina Wuyun* Date/Time: 11/21/23 1305

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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: QC Level: 2

Project# 23110003

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.

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standaad TAT Billing/PO: 35307

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	Ra226	Ra228
	23110003-045	11/20/23 1141	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-046	11/21/23 1007	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-047	11/21/23 1032	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-048	11/20/23 1320	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-049	11/20/23 1218	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-050	11/20/23 1250	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-051	11/20/23 1350	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-052	11/14/23 1136	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-053	11/14/23 1037	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-054	11/21/23 1036	HNO3	Aqueous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	23110003-055	11/14/23 1001	HNO3	Groundwater	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*Relinquished By	Date/Time	Received By	Date/Time
<i>Elizabeth Hurley</i>	11/21/23	<i>Sharon Hurley</i>	11/22/23 1305

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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: [] QC Level: [2]

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# 23110003
Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT Billing/PO: 85307
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.

Ra226/228	Ra226	Ra228																	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<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"/>

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23110003-056	11/17/23 1037	HNO3	Groundwater
	23110003-057	11/20/23 1042	HNO3	Groundwater
	23110003-058	11/14/23 1037	HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater
			HNO3	Groundwater

*Relinquished By: *[Signature]* Date/Time: 11/23/23
Received By: *[Signature]* Date/Time: 11/23/23 1305

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Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-52329-1

SDG Number: 23110003

Login Number: 52329

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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	Preserved upon arrival
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 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-52329-1
Doc ID: 160-52329-1
SDG: 23110003

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 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Job ID: 160-52329-1
OP-845-102
SDG: 23110003

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 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
SDG: 23110003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-52329-1	23110003-001	Water	11/15/23 11:40	11/22/23 13:05
160-52329-2	23110003-002	Water	11/20/23 08:30	11/22/23 13:05
160-52329-3	23110003-003	Water	11/15/23 13:38	11/22/23 13:05
160-52329-4	23110003-004	Water	11/15/23 12:55	11/22/23 13:05
160-52329-5	23110003-005	Water	11/15/23 12:16	11/22/23 13:05
160-52329-6	23110003-006	Water	11/14/23 10:01	11/22/23 13:05
160-52329-7	23110003-007	Water	11/15/23 14:31	11/22/23 13:05
160-52329-8	23110003-008	Water	11/17/23 08:42	11/22/23 13:05
160-52329-9	23110003-009	Water	11/16/23 14:39	11/22/23 13:05
160-52329-10	23110003-010	Water	11/16/23 13:12	11/22/23 13:05
160-52329-11	23110003-011	Water	11/16/23 12:48	11/22/23 13:05
160-52329-12	23110003-012	Water	11/16/23 11:52	11/22/23 13:05
160-52329-13	23110003-013	Water	11/16/23 10:43	11/22/23 13:05
160-52329-14	23110003-014	Water	11/16/23 10:13	11/22/23 13:05
160-52329-15	23110003-015	Water	11/17/23 09:13	11/22/23 13:05
160-52329-16	23110003-016	Water	11/17/23 09:42	11/22/23 13:05
160-52329-17	23110003-017	Water	11/17/23 10:37	11/22/23 13:05
160-52329-19	23110003-019	Water	12/07/23 09:13	11/22/23 13:05
160-52329-20	23110003-020	Water	11/17/23 11:34	11/22/23 13:05
160-52329-22	23110003-022	Water	11/17/23 12:03	11/22/23 13:05
160-52329-23	23110003-023	Water	11/20/23 09:50	11/22/23 13:05
160-52329-24	23110003-024	Water	11/20/23 08:56	11/22/23 13:05
160-52329-25	23110003-025	Water	11/20/23 10:34	11/22/23 13:05
160-52329-27	23110003-027	Water	11/20/23 11:02	11/22/23 13:05
160-52329-28	23110003-028	Water	11/20/23 10:42	11/22/23 13:05
160-52329-29	23110003-029	Water	11/20/23 12:22	11/22/23 13:05
160-52329-30	23110003-030	Water	11/21/23 11:28	11/22/23 13:05
160-52329-31	23110003-031	Water	11/17/23 10:55	11/22/23 13:05
160-52329-32	23110003-032	Water	11/17/23 12:26	11/22/23 13:05
160-52329-33	23110003-033	Water	11/21/23 09:37	11/22/23 13:05
160-52329-34	23110003-034	Water	11/17/23 11:38	11/22/23 13:05
160-52329-35	23110003-035	Water	11/17/23 10:11	11/22/23 13:05
160-52329-36	23110003-036	Water	11/20/23 09:49	11/22/23 13:05
160-52329-38	23110003-038	Water	11/20/23 14:04	11/22/23 13:05
160-52329-39	23110003-039	Water	11/20/23 15:24	11/22/23 13:05
160-52329-40	23110003-040	Water	11/20/23 14:49	11/22/23 13:05
160-52329-41	23110003-041	Water	11/21/23 10:37	11/22/23 13:05
160-52329-42	23110003-042	Water	11/20/23 13:21	11/22/23 13:05
160-52329-43	23110003-043	Water	11/21/23 09:24	11/22/23 13:05
160-52329-44	23110003-044	Water	11/21/23 08:37	11/22/23 13:05
160-52329-45	23110003-045	Water	11/20/23 11:41	11/22/23 13:05
160-52329-46	23110003-046	Water	11/21/23 10:07	11/22/23 13:05
160-52329-47	23110003-047	Water	11/21/23 10:32	11/22/23 13:05
160-52329-48	23110003-048	Water	11/20/23 13:20	11/22/23 13:05
160-52329-49	23110003-049	Water	11/20/23 12:18	11/22/23 13:05
160-52329-50	23110003-050	Water	11/20/23 12:50	11/22/23 13:05
160-52329-51	23110003-051	Water	11/20/23 13:50	11/22/23 13:05
160-52329-52	23110003-052	Water	11/14/23 11:36	11/22/23 13:05
160-52329-53	23110003-053	Water	11/14/23 10:37	11/22/23 13:05
160-52329-54	23110003-054	Water	11/21/23 10:36	11/22/23 13:05
160-52329-55	23110003-055	Water	11/14/23 10:01	11/22/23 13:05
160-52329-56	23110003-056	Water	11/17/23 10:37	11/22/23 13:05
160-52329-57	23110003-057	Water	11/20/23 10:42	11/22/23 13:05
160-52329-58	23110003-058	Water	11/14/23 10:37	11/22/23 13:05

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-001

Lab Sample ID: 160-52329-1

Date Collected: 11/15/23 11:40

Matrix: Water

Date Received: 11/22/23 13:05

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	0.290		0.209	0.211	1.00	0.290	pCi/L	11/28/23 10:15	01/08/24 15:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/28/23 10:15	01/08/24 15:08	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	0.935		0.607	0.614	1.00	0.892	pCi/L	11/28/23 10:19	01/05/24 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/28/23 10:19	01/05/24 15:51	1
Y Carrier	82.2		30 - 110					11/28/23 10:19	01/05/24 15:51	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	1.23		0.642	0.649	5.00	0.892	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-002

Lab Sample ID: 160-52329-2

Date Collected: 11/20/23 08:30

Matrix: Water

Date Received: 11/22/23 13:05

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	0.256	0.258	1.00	0.393	pCi/L	11/28/23 10:15	01/08/24 15:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					11/28/23 10:15	01/08/24 15:08	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	1.83		0.735	0.754	1.00	0.923	pCi/L	11/28/23 10:19	01/05/24 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					11/28/23 10:19	01/05/24 15:51	1
Y Carrier	81.1		30 - 110					11/28/23 10:19	01/05/24 15:51	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	2.13		0.778	0.797	5.00	0.923	pCi/L		01/09/24 14:58	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-003
 Date Collected: 11/15/23 13:38
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-3
 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	0.154	U	0.145	0.146	1.00	0.225	pCi/L	11/28/23 10:15	01/08/24 15:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					11/28/23 10:15	01/08/24 15:08	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	0.0469	U	0.316	0.316	1.00	0.589	pCi/L	11/28/23 10:19	01/05/24 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					11/28/23 10:19	01/05/24 15:51	1
Y Carrier	81.5		30 - 110					11/28/23 10:19	01/05/24 15:51	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	0.201	U	0.348	0.348	5.00	0.589	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-004
 Date Collected: 11/15/23 12:55
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-4
 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	0.718		0.289	0.296	1.00	0.299	pCi/L	11/28/23 10:15	01/08/24 15:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					11/28/23 10:15	01/08/24 15:09	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	1.09		0.663	0.671	1.00	0.964	pCi/L	11/28/23 10:19	01/05/24 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					11/28/23 10:19	01/05/24 15:51	1
Y Carrier	82.2		30 - 110					11/28/23 10:19	01/05/24 15:51	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	1.81		0.723	0.733	5.00	0.964	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-005

Lab Sample ID: 160-52329-5

Date Collected: 11/15/23 12:16

Matrix: Water

Date Received: 11/22/23 13:05

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	0.434		0.241	0.244	1.00	0.291	pCi/L	11/28/23 10:15	01/08/24 15:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					11/28/23 10:15	01/08/24 15:09	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	1.18		0.697	0.705	1.00	0.999	pCi/L	11/28/23 10:19	01/05/24 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					11/28/23 10:19	01/05/24 15:51	1
Y Carrier	81.1		30 - 110					11/28/23 10:19	01/05/24 15:51	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	1.61		0.737	0.746	5.00	0.999	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-006

Lab Sample ID: 160-52329-6

Date Collected: 11/14/23 10:01

Matrix: Water

Date Received: 11/22/23 13:05

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	1.70		0.414	0.442	1.00	0.278	pCi/L	11/28/23 10:15	01/08/24 15:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					11/28/23 10:15	01/08/24 15:09	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	2.05		0.766	0.789	1.00	0.918	pCi/L	11/28/23 10:19	01/05/24 15:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					11/28/23 10:19	01/05/24 15:51	1
Y Carrier	83.7		30 - 110					11/28/23 10:19	01/05/24 15:51	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	3.75		0.871	0.904	5.00	0.918	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-007
 Date Collected: 11/15/23 14:31
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-7
 Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00674	U	0.0847	0.0847	1.00	0.170	pCi/L	11/28/23 10:15	01/08/24 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:15	01/08/24 15:10	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	0.377	U	0.298	0.300	1.00	0.455	pCi/L	11/28/23 10:19	01/05/24 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:19	01/05/24 15:52	1
Y Carrier	82.2		30 - 110					11/28/23 10:19	01/05/24 15:52	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	0.384	U	0.310	0.312	5.00	0.455	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-008
 Date Collected: 11/17/23 08:42
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-8
 Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163	U	0.131	0.132	1.00	0.190	pCi/L	11/28/23 10:15	01/08/24 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		30 - 110					11/28/23 10:15	01/08/24 15:10	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	1.02		0.462	0.472	1.00	0.619	pCi/L	11/28/23 10:19	01/05/24 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		30 - 110					11/28/23 10:19	01/05/24 15:52	1
Y Carrier	84.1		30 - 110					11/28/23 10:19	01/05/24 15:52	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	1.19		0.480	0.490	5.00	0.619	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-009
 Date Collected: 11/16/23 14:39
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-9
 Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.148		0.106	0.107	1.00	0.146	pCi/L	11/28/23 10:15	01/08/24 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					11/28/23 10:15	01/08/24 15:10	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	0.354	U	0.292	0.294	1.00	0.454	pCi/L	11/28/23 10:19	01/05/24 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					11/28/23 10:19	01/05/24 15:52	1
Y Carrier	83.7		30 - 110					11/28/23 10:19	01/05/24 15:52	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	0.502		0.311	0.313	5.00	0.454	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-010
 Date Collected: 11/16/23 13:12
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-10
 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	0.0951	U	0.0918	0.0922	1.00	0.139	pCi/L	11/28/23 10:15	01/08/24 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:15	01/08/24 15:11	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.32		0.444	0.460	1.00	0.525	pCi/L	11/28/23 10:19	01/05/24 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:19	01/05/24 15:52	1
Y Carrier	76.6		30 - 110					11/28/23 10:19	01/05/24 15:52	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	1.41		0.453	0.469	5.00	0.525	pCi/L		01/09/24 14:58	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-011

Lab Sample ID: 160-52329-11

Date Collected: 11/16/23 12:48

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0731	U	0.0770	0.0773	1.00	0.120	pCi/L	11/28/23 10:15	01/08/24 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					11/28/23 10:15	01/08/24 15:11	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	0.509		0.308	0.312	1.00	0.447	pCi/L	11/28/23 10:19	01/05/24 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					11/28/23 10:19	01/05/24 15:50	1
Y Carrier	81.9		30 - 110					11/28/23 10:19	01/05/24 15:50	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	0.582		0.317	0.321	5.00	0.447	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-012

Lab Sample ID: 160-52329-12

Date Collected: 11/16/23 11:52

Matrix: Water

Date Received: 11/22/23 13:05

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	0.166		0.107	0.108	1.00	0.139	pCi/L	11/28/23 10:15	01/08/24 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					11/28/23 10:15	01/08/24 15:11	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	0.377	U	0.341	0.343	1.00	0.538	pCi/L	11/28/23 10:19	01/05/24 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					11/28/23 10:19	01/05/24 15:50	1
Y Carrier	68.8		30 - 110					11/28/23 10:19	01/05/24 15:50	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	0.543		0.357	0.360	5.00	0.538	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-013

Lab Sample ID: 160-52329-13

Date Collected: 11/16/23 10:43

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0817	U	0.100	0.101	1.00	0.166	pCi/L	11/28/23 10:15	01/08/24 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					11/28/23 10:15	01/08/24 15:12	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	0.297	U	0.257	0.259	1.00	0.401	pCi/L	11/28/23 10:19	01/05/24 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					11/28/23 10:19	01/05/24 15:50	1
Y Carrier	84.9		30 - 110					11/28/23 10:19	01/05/24 15:50	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	0.378	U	0.276	0.278	5.00	0.401	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-014

Lab Sample ID: 160-52329-14

Date Collected: 11/16/23 10:13

Matrix: Water

Date Received: 11/22/23 13:05

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.113	U	0.125	0.126	1.00	0.200	pCi/L	11/28/23 10:15	01/08/24 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					11/28/23 10:15	01/08/24 15:12	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	0.753		0.428	0.433	1.00	0.606	pCi/L	11/28/23 10:19	01/05/24 15:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					11/28/23 10:19	01/05/24 15:50	1
Y Carrier	80.4		30 - 110					11/28/23 10:19	01/05/24 15:50	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	0.866		0.446	0.451	5.00	0.606	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-015
 Date Collected: 11/17/23 09:13
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-15
 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	0.103	U	0.0883	0.0888	1.00	0.128	pCi/L	11/28/23 10:15	01/08/24 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		30 - 110					11/28/23 10:15	01/08/24 15:12	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	0.957		0.368	0.379	1.00	0.467	pCi/L	11/28/23 10:19	01/05/24 15:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		30 - 110					11/28/23 10:19	01/05/24 15:48	1
Y Carrier	83.4		30 - 110					11/28/23 10:19	01/05/24 15:48	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	1.06		0.378	0.389	5.00	0.467	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-016
 Date Collected: 11/17/23 09:42
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-16
 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	0.0656	U	0.128	0.128	1.00	0.228	pCi/L	11/28/23 10:15	01/08/24 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					11/28/23 10:15	01/08/24 15:20	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	0.448	U	0.383	0.385	1.00	0.595	pCi/L	11/28/23 10:19	01/05/24 15:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					11/28/23 10:19	01/05/24 15:48	1
Y Carrier	80.7		30 - 110					11/28/23 10:19	01/05/24 15:48	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	0.514	U	0.404	0.406	5.00	0.595	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-017

Lab Sample ID: 160-52329-17

Date Collected: 11/17/23 10:37

Matrix: Water

Date Received: 11/22/23 13:05

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	0.185		0.115	0.116	1.00	0.150	pCi/L	11/28/23 10:15	01/08/24 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		30 - 110					11/28/23 10:15	01/08/24 15:20	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	0.675		0.315	0.321	1.00	0.414	pCi/L	11/28/23 10:19	01/05/24 15:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		30 - 110					11/28/23 10:19	01/05/24 15:48	1
Y Carrier	85.2		30 - 110					11/28/23 10:19	01/05/24 15:48	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	0.860		0.335	0.341	5.00	0.414	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-019

Lab Sample ID: 160-52329-19

Date Collected: 12/07/23 09:13

Matrix: Water

Date Received: 11/22/23 13:05

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	0.284	U	0.246	0.248	1.00	0.375	pCi/L	12/12/23 10:07	01/05/24 09:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					12/12/23 10:07	01/05/24 09:33	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	1.05		0.531	0.540	1.00	0.735	pCi/L	12/12/23 10:10	01/04/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					12/12/23 10:10	01/04/24 11:44	1
Y Carrier	77.0		30 - 110					12/12/23 10:10	01/04/24 11:44	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	1.33		0.585	0.594	5.00	0.735	pCi/L		01/09/24 15:33	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-020

Lab Sample ID: 160-52329-20

Date Collected: 11/17/23 11:34

Matrix: Water

Date Received: 11/22/23 13:05

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	0.204	U	0.167	0.168	1.00	0.250	pCi/L	11/28/23 10:15	01/08/24 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/28/23 10:15	01/08/24 15:20	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	1.83		0.599	0.622	1.00	0.741	pCi/L	11/28/23 10:19	01/05/24 15:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/28/23 10:19	01/05/24 15:48	1
Y Carrier	84.9		30 - 110					11/28/23 10:19	01/05/24 15:48	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	2.03		0.622	0.644	5.00	0.741	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-022

Lab Sample ID: 160-52329-22

Date Collected: 11/17/23 12:03

Matrix: Water

Date Received: 11/22/23 13:05

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	0.161	U	0.150	0.151	1.00	0.233	pCi/L	11/28/23 10:15	01/08/24 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					11/28/23 10:15	01/08/24 15:20	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	0.927		0.451	0.459	1.00	0.615	pCi/L	11/28/23 10:19	01/05/24 15:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					11/28/23 10:19	01/05/24 15:49	1
Y Carrier	84.1		30 - 110					11/28/23 10:19	01/05/24 15:49	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	1.09		0.475	0.483	5.00	0.615	pCi/L		01/09/24 14:58	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-023

Lab Sample ID: 160-52329-23

Date Collected: 11/20/23 09:50

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0610	U	0.0886	0.0888	1.00	0.151	pCi/L	11/28/23 10:15	01/08/24 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					11/28/23 10:15	01/08/24 15:20	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	0.594		0.314	0.319	1.00	0.431	pCi/L	11/28/23 10:19	01/05/24 15:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					11/28/23 10:19	01/05/24 15:49	1
Y Carrier	84.1		30 - 110					11/28/23 10:19	01/05/24 15:49	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	0.655		0.326	0.331	5.00	0.431	pCi/L		01/09/24 14:58	1

Client Sample ID: 23110003-024

Lab Sample ID: 160-52329-24

Date Collected: 11/20/23 08:56

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0980	U	0.130	0.130	1.00	0.218	pCi/L	11/28/23 10:21	01/08/24 15:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					11/28/23 10:21	01/08/24 15:24	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	4.09		0.766	0.853	1.00	0.703	pCi/L	11/28/23 10:25	01/05/24 16:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					11/28/23 10:25	01/05/24 16:00	1
Y Carrier	84.1		30 - 110					11/28/23 10:25	01/05/24 16:00	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	4.19		0.777	0.863	5.00	0.703	pCi/L		01/09/24 15:07	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-025
 Date Collected: 11/20/23 10:34
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-25
 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	0.132	U	0.144	0.144	1.00	0.233	pCi/L	11/28/23 10:21	01/08/24 15:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					11/28/23 10:21	01/08/24 15:24	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	14.1		1.13	1.72	1.00	0.562	pCi/L	11/28/23 10:25	01/05/24 16:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					11/28/23 10:25	01/05/24 16:00	1
Y Carrier	84.9		30 - 110					11/28/23 10:25	01/05/24 16:00	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	14.3		1.14	1.73	5.00	0.562	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-027
 Date Collected: 11/20/23 11:02
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-27
 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	0.318		0.198	0.201	1.00	0.272	pCi/L	11/28/23 10:21	01/08/24 15:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					11/28/23 10:21	01/08/24 15:24	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	8.97		1.13	1.40	1.00	0.869	pCi/L	11/28/23 10:25	01/05/24 16:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					11/28/23 10:25	01/05/24 16:00	1
Y Carrier	82.6		30 - 110					11/28/23 10:25	01/05/24 16:00	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	9.29		1.15	1.41	5.00	0.869	pCi/L		01/09/24 15:07	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-028
 Date Collected: 11/20/23 10:42
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-28
 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	0.0180	U	0.0810	0.0811	1.00	0.159	pCi/L	11/28/23 10:21	01/08/24 15:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					11/28/23 10:21	01/08/24 15:24	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	0.556		0.328	0.332	1.00	0.468	pCi/L	11/28/23 10:25	01/05/24 16:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					11/28/23 10:25	01/05/24 16:00	1
Y Carrier	83.4		30 - 110					11/28/23 10:25	01/05/24 16:00	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	0.574		0.338	0.342	5.00	0.468	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-029
 Date Collected: 11/20/23 12:22
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-29
 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	0.155	U	0.162	0.162	1.00	0.258	pCi/L	11/28/23 10:21	01/08/24 15:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					11/28/23 10:21	01/08/24 15:25	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	7.18		0.990	1.19	1.00	0.685	pCi/L	11/28/23 10:25	01/05/24 16:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					11/28/23 10:25	01/05/24 16:00	1
Y Carrier	82.2		30 - 110					11/28/23 10:25	01/05/24 16:00	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	7.33		1.00	1.20	5.00	0.685	pCi/L		01/09/24 15:07	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-030

Lab Sample ID: 160-52329-30

Date Collected: 11/21/23 11:28

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0800	U	0.177	0.177	1.00	0.316	pCi/L	11/28/23 10:21	01/08/24 15:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					11/28/23 10:21	01/08/24 15:25	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	0.276	U	0.431	0.432	1.00	0.735	pCi/L	11/28/23 10:25	01/05/24 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					11/28/23 10:25	01/05/24 16:01	1
Y Carrier	79.3		30 - 110					11/28/23 10:25	01/05/24 16:01	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	0.356	U	0.466	0.467	5.00	0.735	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-031

Lab Sample ID: 160-52329-31

Date Collected: 11/17/23 10:55

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0978	U	0.139	0.139	1.00	0.236	pCi/L	11/28/23 10:21	01/08/24 17:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:21	01/08/24 17:47	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	7.23		1.01	1.21	1.00	0.695	pCi/L	11/28/23 10:25	01/05/24 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:25	01/05/24 16:02	1
Y Carrier	78.1		30 - 110					11/28/23 10:25	01/05/24 16:02	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	7.33		1.02	1.22	5.00	0.695	pCi/L		01/09/24 15:07	1

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Client Sample Results

945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

Client Sample ID: 23110003-032

Lab Sample ID: 160-52329-32

Date Collected: 11/17/23 12:26

Matrix: Water

Date Received: 11/22/23 13:05

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	0.251		0.178	0.180	1.00	0.247	pCi/L	11/28/23 10:21	01/08/24 17:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.1		30 - 110					11/28/23 10:21	01/08/24 17:47	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	9.31		1.25	1.51	1.00	0.809	pCi/L	11/28/23 10:25	01/05/24 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.1		30 - 110					11/28/23 10:25	01/05/24 16:02	1
Y Carrier	80.4		30 - 110					11/28/23 10:25	01/05/24 16:02	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	9.56		1.26	1.52	5.00	0.809	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-033

Lab Sample ID: 160-52329-33

Date Collected: 11/21/23 09:37

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0231	U	0.133	0.133	1.00	0.255	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					11/28/23 10:21	01/08/24 17:48	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	0.876		0.496	0.502	1.00	0.713	pCi/L	11/28/23 10:25	01/05/24 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					11/28/23 10:25	01/05/24 16:02	1
Y Carrier	82.2		30 - 110					11/28/23 10:25	01/05/24 16:02	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	0.899		0.514	0.519	5.00	0.713	pCi/L		01/09/24 15:07	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-034

Lab Sample ID: 160-52329-34

Date Collected: 11/17/23 11:38

Matrix: Water

Date Received: 11/22/23 13:05

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	0.116	U	0.117	0.117	1.00	0.184	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					11/28/23 10:21	01/08/24 17:48	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	7.87		0.867	1.13	1.00	0.498	pCi/L	11/28/23 10:25	01/05/24 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					11/28/23 10:25	01/05/24 16:02	1
Y Carrier	86.0		30 - 110					11/28/23 10:25	01/05/24 16:02	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	7.99		0.875	1.14	5.00	0.498	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-035

Lab Sample ID: 160-52329-35

Date Collected: 11/17/23 10:11

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0215	U	0.0809	0.0809	1.00	0.156	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		30 - 110					11/28/23 10:21	01/08/24 17:48	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	3.72		0.600	0.690	1.00	0.469	pCi/L	11/28/23 10:25	01/05/24 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		30 - 110					11/28/23 10:25	01/05/24 16:02	1
Y Carrier	82.6		30 - 110					11/28/23 10:25	01/05/24 16:02	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	3.74		0.605	0.695	5.00	0.469	pCi/L		01/09/24 15:07	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-036

Lab Sample ID: 160-52329-36

Date Collected: 11/20/23 09:49

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0895	U	0.0872	0.0876	1.00	0.133	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					11/28/23 10:21	01/08/24 17:48	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	8.15		0.920	1.19	1.00	0.517	pCi/L	11/28/23 10:25	01/05/24 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					11/28/23 10:25	01/05/24 16:02	1
Y Carrier	71.8		30 - 110					11/28/23 10:25	01/05/24 16:02	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	8.24		0.924	1.19	5.00	0.517	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-038

Lab Sample ID: 160-52329-38

Date Collected: 11/20/23 14:04

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0955	U	0.102	0.103	1.00	0.163	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					11/28/23 10:21	01/08/24 17:48	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	1.15		0.426	0.439	1.00	0.537	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	80.7		30 - 110					11/28/23 10:25	01/05/24 16:12	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	1.25		0.438	0.451	5.00	0.537	pCi/L		01/09/24 15:07	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-039
 Date Collected: 11/20/23 15:24
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-39
 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	0.241		0.155	0.156	1.00	0.221	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					11/28/23 10:21	01/08/24 17:48	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	6.65		0.806	1.01	1.00	0.468	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	77.8		30 - 110					11/28/23 10:25	01/05/24 16:12	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	6.90		0.821	1.02	5.00	0.468	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-040
 Date Collected: 11/20/23 14:49
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-40
 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	0.731		0.254	0.262	1.00	0.264	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:21	01/08/24 17:48	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	9.65		1.14	1.44	1.00	0.779	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	82.6		30 - 110					11/28/23 10:25	01/05/24 16:12	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	10.4		1.17	1.46	5.00	0.779	pCi/L		01/09/24 15:07	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-041
 Date Collected: 11/21/23 10:37
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-41
 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	0.0183	U	0.0825	0.0825	1.00	0.161	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					11/28/23 10:21	01/08/24 17:48	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	2.11		0.535	0.569	1.00	0.575	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	80.7		30 - 110					11/28/23 10:25	01/05/24 16:12	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	2.13		0.541	0.575	5.00	0.575	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-042
 Date Collected: 11/20/23 13:21
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-42
 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	0.102	U	0.143	0.143	1.00	0.242	pCi/L	11/28/23 10:21	01/08/24 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110					11/28/23 10:21	01/08/24 17:48	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	0.844		0.484	0.490	1.00	0.698	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	84.1		30 - 110					11/28/23 10:25	01/05/24 16:12	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	0.946		0.505	0.510	5.00	0.698	pCi/L		01/09/24 15:07	1

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Client Sample Results

945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

Client Sample ID: 23110003-043

Lab Sample ID: 160-52329-43

Date Collected: 11/21/23 09:24

Matrix: Water

Date Received: 11/22/23 13:05

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	-0.0546	U	0.0901	0.0902	1.00	0.201	pCi/L	11/28/23 10:21	01/08/24 17:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					11/28/23 10:21	01/08/24 17:43	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	8.66		0.916	1.21	1.00	0.530	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	84.5		30 - 110					11/28/23 10:25	01/05/24 16:12	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	8.66		0.920	1.21	5.00	0.530	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-044

Lab Sample ID: 160-52329-44

Date Collected: 11/21/23 08:37

Matrix: Water

Date Received: 11/22/23 13:05

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		0.144	0.145	1.00	0.202	pCi/L	11/28/23 10:21	01/08/24 17:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					11/28/23 10:21	01/08/24 17:43	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	2.74		0.634	0.683	1.00	0.625	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	84.1		30 - 110					11/28/23 10:25	01/05/24 16:12	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	2.95		0.650	0.698	5.00	0.625	pCi/L		01/09/24 15:07	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-045
 Date Collected: 11/20/23 11:41
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-45
 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	0.0613	U	0.113	0.114	1.00	0.199	pCi/L	11/28/23 10:21	01/08/24 17:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					11/28/23 10:21	01/08/24 17:44	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	2.19		0.558	0.593	1.00	0.628	pCi/L	11/28/23 10:25	01/05/24 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					11/28/23 10:25	01/05/24 16:12	1
Y Carrier	82.2		30 - 110					11/28/23 10:25	01/05/24 16:12	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	2.25		0.569	0.604	5.00	0.628	pCi/L		01/09/24 15:07	1

Client Sample ID: 23110003-046
 Date Collected: 11/21/23 10:07
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-46
 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	-0.00285	U	0.0519	0.0519	1.00	0.108	pCi/L	11/28/23 10:29	12/27/23 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					11/28/23 10:29	12/27/23 09:34	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	0.750		0.398	0.404	1.00	0.559	pCi/L	11/28/23 10:32	12/18/23 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					11/28/23 10:32	12/18/23 12:10	1
Y Carrier	77.0		30 - 110					11/28/23 10:32	12/18/23 12:10	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	0.750		0.401	0.407	5.00	0.559	pCi/L		12/27/23 14:55	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-047

Lab Sample ID: 160-52329-47

Date Collected: 11/21/23 10:32

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0391	U	0.0558	0.0559	1.00	0.0949	pCi/L	11/28/23 10:29	12/27/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					11/28/23 10:29	12/27/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.649		0.384	0.388	1.00	0.553	pCi/L	11/28/23 10:32	12/18/23 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					11/28/23 10:32	12/18/23 12:10	1
Y Carrier	78.9		30 - 110					11/28/23 10:32	12/18/23 12:10	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	0.688		0.388	0.392	5.00	0.553	pCi/L		12/27/23 14:55	1

Client Sample ID: 23110003-048

Lab Sample ID: 160-52329-48

Date Collected: 11/20/23 13:20

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0310	U	0.0505	0.0505	1.00	0.0886	pCi/L	11/28/23 10:29	12/27/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					11/28/23 10:29	12/27/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.599		0.373	0.377	1.00	0.546	pCi/L	11/28/23 10:32	12/18/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					11/28/23 10:32	12/18/23 12:11	1
Y Carrier	78.9		30 - 110					11/28/23 10:32	12/18/23 12:11	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	0.630		0.376	0.380	5.00	0.546	pCi/L		12/27/23 14:55	1

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Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEE POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-049
 Date Collected: 11/20/23 12:18
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-49
 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	0.0938		0.0675	0.0680	1.00	0.0896	pCi/L	11/28/23 10:29	12/27/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/28/23 10:29	12/27/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.827		0.440	0.446	1.00	0.612	pCi/L	11/28/23 10:32	12/18/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/28/23 10:32	12/18/23 12:11	1
Y Carrier	73.3		30 - 110					11/28/23 10:32	12/18/23 12:11	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	0.921		0.445	0.451	5.00	0.612	pCi/L		12/27/23 14:55	1

Client Sample ID: 23110003-050
 Date Collected: 11/20/23 12:50
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-50
 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	0.140		0.0775	0.0785	1.00	0.0934	pCi/L	11/28/23 10:29	12/27/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110					11/28/23 10:29	12/27/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.491		0.330	0.333	1.00	0.485	pCi/L	11/28/23 10:32	12/18/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110					11/28/23 10:32	12/18/23 12:11	1
Y Carrier	80.4		30 - 110					11/28/23 10:32	12/18/23 12:11	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	0.631		0.339	0.342	5.00	0.485	pCi/L		12/27/23 14:55	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-051
 Date Collected: 11/20/23 13:50
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-51
 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	0.0891	U	0.0778	0.0782	1.00	0.118	pCi/L	11/28/23 10:29	12/27/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					11/28/23 10:29	12/27/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.989		0.447	0.456	1.00	0.594	pCi/L	11/28/23 10:32	12/18/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					11/28/23 10:32	12/18/23 12:11	1
Y Carrier	75.9		30 - 110					11/28/23 10:32	12/18/23 12:11	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	1.08		0.454	0.463	5.00	0.594	pCi/L		12/27/23 14:55	1

Client Sample ID: 23110003-052
 Date Collected: 11/14/23 11:36
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-52
 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	0.354		0.198	0.200	1.00	0.248	pCi/L	11/28/23 10:29	12/27/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.6		30 - 110					11/28/23 10:29	12/27/23 09:36	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	0.811	U G	0.820	0.824	1.00	1.32	pCi/L	11/28/23 10:32	12/18/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.6		30 - 110					11/28/23 10:32	12/18/23 12:11	1
Y Carrier	78.1		30 - 110					11/28/23 10:32	12/18/23 12:11	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	1.16	U	0.844	0.848	5.00	1.32	pCi/L		12/27/23 14:55	1

Client Sample Results

945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

Client Sample ID: 23110003-053

Lab Sample ID: 160-52329-53

Date Collected: 11/14/23 10:37

Matrix: Water

Date Received: 11/22/23 13:05

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	0.261		0.117	0.119	1.00	0.121	pCi/L	11/28/23 10:29	12/27/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					11/28/23 10:29	12/27/23 09:36	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	1.18		0.633	0.642	1.00	0.917	pCi/L	11/28/23 10:32	12/18/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					11/28/23 10:32	12/18/23 12:11	1
Y Carrier	80.4		30 - 110					11/28/23 10:32	12/18/23 12:11	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	1.44		0.644	0.653	5.00	0.917	pCi/L		12/27/23 14:55	1

Client Sample ID: 23110003-054

Lab Sample ID: 160-52329-54

Date Collected: 11/21/23 10:36

Matrix: Water

Date Received: 11/22/23 13:05

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	0.0198	U	0.0611	0.0611	1.00	0.114	pCi/L	11/28/23 10:29	12/27/23 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/28/23 10:29	12/27/23 09:43	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	0.209	U	0.317	0.318	1.00	0.538	pCi/L	11/28/23 10:32	12/18/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/28/23 10:32	12/18/23 12:09	1
Y Carrier	81.1		30 - 110					11/28/23 10:32	12/18/23 12:09	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	0.229	U	0.323	0.324	5.00	0.538	pCi/L		12/27/23 14:55	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-055
 Date Collected: 11/14/23 10:01
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-55
 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	0.109	U	0.155	0.155	1.00	0.262	pCi/L	11/28/23 10:29	12/27/23 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		30 - 110					11/28/23 10:29	12/27/23 09:43	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	1.28	U G	0.866	0.874	1.00	1.29	pCi/L	11/28/23 10:32	12/18/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		30 - 110					11/28/23 10:32	12/18/23 12:09	1
Y Carrier	77.4		30 - 110					11/28/23 10:32	12/18/23 12:09	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	1.38		0.880	0.888	5.00	1.29	pCi/L		12/27/23 14:55	1

Client Sample ID: 23110003-056
 Date Collected: 11/17/23 10:37
 Date Received: 11/22/23 13:05

Lab Sample ID: 160-52329-56
 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	0.0397	U	0.0874	0.0875	1.00	0.158	pCi/L	11/28/23 10:29	12/27/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					11/28/23 10:29	12/27/23 09:44	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	0.773		0.512	0.517	1.00	0.770	pCi/L	11/28/23 10:32	12/18/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					11/28/23 10:32	12/18/23 12:03	1
Y Carrier	81.1		30 - 110					11/28/23 10:32	12/18/23 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	0.813		0.519	0.524	5.00	0.770	pCi/L		12/27/23 14:55	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Client Sample ID: 23110003-057

Lab Sample ID: 160-52329-57

Date Collected: 11/20/23 10:42

Matrix: Water

Date Received: 11/22/23 13:05

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	0.222		0.104	0.106	1.00	0.129	pCi/L	11/28/23 10:29	12/27/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					11/28/23 10:29	12/27/23 09:44	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	0.608		0.374	0.378	1.00	0.549	pCi/L	11/28/23 10:32	12/18/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					11/28/23 10:32	12/18/23 12:03	1
Y Carrier	80.4		30 - 110					11/28/23 10:32	12/18/23 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	0.829		0.388	0.393	5.00	0.549	pCi/L		12/27/23 14:55	1

Client Sample ID: 23110003-058

Lab Sample ID: 160-52329-58

Date Collected: 11/14/23 10:37

Matrix: Water

Date Received: 11/22/23 13:05

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		0.153	0.158	1.00	0.147	pCi/L	11/28/23 10:29	12/27/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					11/28/23 10:29	12/27/23 09:44	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	0.664	U	0.459	0.463	1.00	0.686	pCi/L	11/28/23 10:32	12/18/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					11/28/23 10:32	12/18/23 12:03	1
Y Carrier	81.9		30 - 110					11/28/23 10:32	12/18/23 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	1.11		0.484	0.489	5.00	0.686	pCi/L		12/27/23 14:55	1

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QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
SDG: 23110003

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-638554/1-A
Matrix: Water
Analysis Batch: 643283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638554

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03105	U	0.0664	0.0664	1.00	0.123	pCi/L	11/28/23 10:15	01/08/24 15:08	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	30 - 110							
	96.0									
		Prepared	Analyzed	Dil Fac						
		11/28/23 10:15	01/08/24 15:08	1						

Lab Sample ID: LCS 160-638554/2-A
Matrix: Water
Analysis Batch: 643283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638554

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	10.62		1.17	1.00	0.141	pCi/L	94	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	95.8		30 - 110							

Lab Sample ID: 160-52329-9 DU
Matrix: Water
Analysis Batch: 643283

Client Sample ID: 23110003-009
Prep Type: Total/NA
Prep Batch: 638554

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	Limit	
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	0.148		0.1325	U	0.102	1.00	0.144	pCi/L	0.08	1	
Carrier	DU	DU									
Ba Carrier	%Yield	Qualifier	Limits								
	95.8		30 - 110								

Lab Sample ID: MB 160-638556/1-A
Matrix: Water
Analysis Batch: 643394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638556

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01105	U	0.0800	0.0800	1.00	0.160	pCi/L	11/28/23 10:21	01/08/24 15:23	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	30 - 110							
	95.8									
		Prepared	Analyzed	Dil Fac						
		11/28/23 10:21	01/08/24 15:23	1						

Lab Sample ID: LCS 160-638556/2-A
Matrix: Water
Analysis Batch: 643394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638556

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.32		1.24	1.00	0.135	pCi/L	100	75 - 125

Eurofins St. Louis

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
SDG: 23110003

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

Lab Sample ID: LCS 160-638556/2-A
Matrix: Water
Analysis Batch: 643394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638556

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.8		30 - 110

Lab Sample ID: 160-52329-34 DU
Matrix: Water
Analysis Batch: 643394

Client Sample ID: 23110003-034
Prep Type: Total/NA
Prep Batch: 638556

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-226	0.116	U	0.1576	U	0.115	1.00	0.159	pCi/L	0.18	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	87.3		30 - 110

Lab Sample ID: MB 160-638560/1-A
Matrix: Water
Analysis Batch: 641942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638560

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	-0.0007292	U	0.0375	0.0375	1.00	0.0840	pCi/L	11/28/23 10:29	12/27/23 09:34	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110	11/28/23 10:29	12/27/23 09:34	1

Lab Sample ID: LCS 160-638560/2-A
Matrix: Water
Analysis Batch: 641942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638560

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual						
Radium-226	11.3	11.53		1.20	1.00	0.102	pCi/L	102	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.6		30 - 110

Lab Sample ID: 160-52329-46 DU
Matrix: Water
Analysis Batch: 641942

Client Sample ID: 23110003-046
Prep Type: Total/NA
Prep Batch: 638560

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-226	-0.00285	U	-0.00294	U	0.0464	1.00	0.100	pCi/L	0	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.8		30 - 110

Eurofins St. Louis

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

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

Lab Sample ID: MB 160-640393/1-A
 Matrix: Water
 Analysis Batch: 643226

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 640393

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1525	U	0.140	0.141	1.00	0.213	pCi/L	12/12/23 10:07	01/05/24 09:37	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					12/12/23 10:07	01/05/24 09:37	1
	100									

Lab Sample ID: LCS 160-640393/2-A
 Matrix: Water
 Analysis Batch: 643283

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 640393

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	11.45		1.23	1.00	0.127	pCi/L	101	75 - 125
Carrier	LCS LCS		Limits						
Ba Carrier	%Yield	Qualifier	30 - 110						
	93.5								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-638555/1-A
 Matrix: Water
 Analysis Batch: 643233

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 638555

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1594	U	0.247	0.247	1.00	0.420	pCi/L	11/28/23 10:19	01/05/24 15:50	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					11/28/23 10:19	01/05/24 15:50	1
Y Carrier	87.1		30 - 110					11/28/23 10:19	01/05/24 15:50	1

Lab Sample ID: LCS 160-638555/2-A
 Matrix: Water
 Analysis Batch: 643233

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 638555

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	9.33	9.372		1.23	1.00	0.412	pCi/L	100	75 - 125
Carrier	LCS LCS		Limits						
Ba Carrier	%Yield	Qualifier	30 - 110						
Y Carrier	86.0		30 - 110						

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEE POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

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

Lab Sample ID: 160-52329-9 DU
 Matrix: Water
 Analysis Batch: 643233

Client Sample ID: 23110003-009
 Prep Type: Total/NA
 Prep Batch: 638555

Analyte	Sample	Sample	DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	0.354	U	0.8176		0.360	1.00	0.456	pCi/L	0.71	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	95.8		30 - 110							
Y Carrier	83.4		30 - 110							

Lab Sample ID: MB 160-638558/1-A
 Matrix: Water
 Analysis Batch: 643079

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 638558

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.4465	U	0.306	0.309	1.00	0.457	pCi/L	11/28/23 10:25	01/05/24 15:59	1
MB MB										
Carrier	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	95.8		30 - 110				11/28/23 10:25	01/05/24 15:59	1	
Y Carrier	86.4		30 - 110				11/28/23 10:25	01/05/24 15:59	1	

Lab Sample ID: LCS 160-638558/2-A
 Matrix: Water
 Analysis Batch: 643079

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 638558

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	95.8		30 - 110						
Y Carrier	87.9		30 - 110						

Lab Sample ID: 160-52329-34 DU
 Matrix: Water
 Analysis Batch: 643079

Client Sample ID: 23110003-034
 Prep Type: Total/NA
 Prep Batch: 638558

Analyte	Sample	Sample	DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	7.87		5.666		0.937	1.00	0.502	pCi/L	1.07	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.3		30 - 110							
Y Carrier	78.5		30 - 110							

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

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

Lab Sample ID: MB 160-638561/1-A
 Matrix: Water
 Analysis Batch: 641254

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 638561

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2376	U	0.511	0.512	1.00	0.892	pCi/L	11/28/23 10:32	12/18/23 16:41	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	93.5		30 - 110		11/28/23 10:32	12/18/23 16:41	1			
Y Carrier	82.2		30 - 110		11/28/23 10:32	12/18/23 16:41	1			

Lab Sample ID: LCS 160-638561/2-A
 Matrix: Water
 Analysis Batch: 641268

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 638561

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	9.39	11.41		1.52	1.00	0.589	pCi/L	122	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.6		30 - 110						
Y Carrier	80.4		30 - 110						

Lab Sample ID: 160-52329-46 DU
 Matrix: Water
 Analysis Batch: 641268

Client Sample ID: 23110003-046
 Prep Type: Total/NA
 Prep Batch: 638561

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.750		0.4845	U	0.333	1.00	0.487	pCi/L	0.36	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	93.8		30 - 110							
Y Carrier	79.3		30 - 110							

Lab Sample ID: MB 160-640394/1-A
 Matrix: Water
 Analysis Batch: 643035

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 640394

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.05130	U	0.244	0.244	1.00	0.447	pCi/L	12/12/23 10:10	01/04/24 11:43	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	100		30 - 110		12/12/23 10:10	01/04/24 11:43	1			
Y Carrier	80.4		30 - 110		12/12/23 10:10	01/04/24 11:43	1			

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

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

Lab Sample ID: LCS 160-640394/2-A
 Matrix: Water
 Analysis Batch: 643035

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 640394

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.34	8.297		1.16	1.00	0.458	pCi/L	89	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		30 - 110
Y Carrier	81.1		30 - 110



QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEE POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
SDG: 23110003

Rad

Prep Batch: 638554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-1	23110003-001	Total/NA	Water	PrecSep-21	
160-52329-2	23110003-002	Total/NA	Water	PrecSep-21	
160-52329-3	23110003-003	Total/NA	Water	PrecSep-21	
160-52329-4	23110003-004	Total/NA	Water	PrecSep-21	
160-52329-5	23110003-005	Total/NA	Water	PrecSep-21	
160-52329-6	23110003-006	Total/NA	Water	PrecSep-21	
160-52329-7	23110003-007	Total/NA	Water	PrecSep-21	
160-52329-8	23110003-008	Total/NA	Water	PrecSep-21	
160-52329-9	23110003-009	Total/NA	Water	PrecSep-21	
160-52329-10	23110003-010	Total/NA	Water	PrecSep-21	
160-52329-11	23110003-011	Total/NA	Water	PrecSep-21	
160-52329-12	23110003-012	Total/NA	Water	PrecSep-21	
160-52329-13	23110003-013	Total/NA	Water	PrecSep-21	
160-52329-14	23110003-014	Total/NA	Water	PrecSep-21	
160-52329-15	23110003-015	Total/NA	Water	PrecSep-21	
160-52329-16	23110003-016	Total/NA	Water	PrecSep-21	
160-52329-17	23110003-017	Total/NA	Water	PrecSep-21	
160-52329-20	23110003-020	Total/NA	Water	PrecSep-21	
160-52329-22	23110003-022	Total/NA	Water	PrecSep-21	
160-52329-23	23110003-023	Total/NA	Water	PrecSep-21	
MB 160-638554/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-638554/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-52329-9 DU	23110003-009	Total/NA	Water	PrecSep-21	

Prep Batch: 638555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-1	23110003-001	Total/NA	Water	PrecSep_0	
160-52329-2	23110003-002	Total/NA	Water	PrecSep_0	
160-52329-3	23110003-003	Total/NA	Water	PrecSep_0	
160-52329-4	23110003-004	Total/NA	Water	PrecSep_0	
160-52329-5	23110003-005	Total/NA	Water	PrecSep_0	
160-52329-6	23110003-006	Total/NA	Water	PrecSep_0	
160-52329-7	23110003-007	Total/NA	Water	PrecSep_0	
160-52329-8	23110003-008	Total/NA	Water	PrecSep_0	
160-52329-9	23110003-009	Total/NA	Water	PrecSep_0	
160-52329-10	23110003-010	Total/NA	Water	PrecSep_0	
160-52329-11	23110003-011	Total/NA	Water	PrecSep_0	
160-52329-12	23110003-012	Total/NA	Water	PrecSep_0	
160-52329-13	23110003-013	Total/NA	Water	PrecSep_0	
160-52329-14	23110003-014	Total/NA	Water	PrecSep_0	
160-52329-15	23110003-015	Total/NA	Water	PrecSep_0	
160-52329-16	23110003-016	Total/NA	Water	PrecSep_0	
160-52329-17	23110003-017	Total/NA	Water	PrecSep_0	
160-52329-20	23110003-020	Total/NA	Water	PrecSep_0	
160-52329-22	23110003-022	Total/NA	Water	PrecSep_0	
160-52329-23	23110003-023	Total/NA	Water	PrecSep_0	
MB 160-638555/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-638555/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-52329-9 DU	23110003-009	Total/NA	Water	PrecSep_0	

QC Association Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEE POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
 SDG: 23110003

Rad

Prep Batch: 638556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-24	23110003-024	Total/NA	Water	PrecSep-21	
160-52329-25	23110003-025	Total/NA	Water	PrecSep-21	
160-52329-27	23110003-027	Total/NA	Water	PrecSep-21	
160-52329-28	23110003-028	Total/NA	Water	PrecSep-21	
160-52329-29	23110003-029	Total/NA	Water	PrecSep-21	
160-52329-30	23110003-030	Total/NA	Water	PrecSep-21	
160-52329-31	23110003-031	Total/NA	Water	PrecSep-21	
160-52329-32	23110003-032	Total/NA	Water	PrecSep-21	
160-52329-33	23110003-033	Total/NA	Water	PrecSep-21	
160-52329-34	23110003-034	Total/NA	Water	PrecSep-21	
160-52329-35	23110003-035	Total/NA	Water	PrecSep-21	
160-52329-36	23110003-036	Total/NA	Water	PrecSep-21	
160-52329-38	23110003-038	Total/NA	Water	PrecSep-21	
160-52329-39	23110003-039	Total/NA	Water	PrecSep-21	
160-52329-40	23110003-040	Total/NA	Water	PrecSep-21	
160-52329-41	23110003-041	Total/NA	Water	PrecSep-21	
160-52329-42	23110003-042	Total/NA	Water	PrecSep-21	
160-52329-43	23110003-043	Total/NA	Water	PrecSep-21	
160-52329-44	23110003-044	Total/NA	Water	PrecSep-21	
160-52329-45	23110003-045	Total/NA	Water	PrecSep-21	
MB 160-638556/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-638556/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-52329-34 DU	23110003-034	Total/NA	Water	PrecSep-21	

Prep Batch: 638558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-24	23110003-024	Total/NA	Water	PrecSep_0	
160-52329-25	23110003-025	Total/NA	Water	PrecSep_0	
160-52329-27	23110003-027	Total/NA	Water	PrecSep_0	
160-52329-28	23110003-028	Total/NA	Water	PrecSep_0	
160-52329-29	23110003-029	Total/NA	Water	PrecSep_0	
160-52329-30	23110003-030	Total/NA	Water	PrecSep_0	
160-52329-31	23110003-031	Total/NA	Water	PrecSep_0	
160-52329-32	23110003-032	Total/NA	Water	PrecSep_0	
160-52329-33	23110003-033	Total/NA	Water	PrecSep_0	
160-52329-34	23110003-034	Total/NA	Water	PrecSep_0	
160-52329-35	23110003-035	Total/NA	Water	PrecSep_0	
160-52329-36	23110003-036	Total/NA	Water	PrecSep_0	
160-52329-38	23110003-038	Total/NA	Water	PrecSep_0	
160-52329-39	23110003-039	Total/NA	Water	PrecSep_0	
160-52329-40	23110003-040	Total/NA	Water	PrecSep_0	
160-52329-41	23110003-041	Total/NA	Water	PrecSep_0	
160-52329-42	23110003-042	Total/NA	Water	PrecSep_0	
160-52329-43	23110003-043	Total/NA	Water	PrecSep_0	
160-52329-44	23110003-044	Total/NA	Water	PrecSep_0	
160-52329-45	23110003-045	Total/NA	Water	PrecSep_0	
MB 160-638558/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-638558/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-52329-34 DU	23110003-034	Total/NA	Water	PrecSep_0	

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
COFFEE POWER PLANT, ASH POND NO. 2

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-52329-1
SDG: 23110003

Rad

Prep Batch: 638560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-46	23110003-046	Total/NA	Water	PrecSep-21	
160-52329-47	23110003-047	Total/NA	Water	PrecSep-21	
160-52329-48	23110003-048	Total/NA	Water	PrecSep-21	
160-52329-49	23110003-049	Total/NA	Water	PrecSep-21	
160-52329-50	23110003-050	Total/NA	Water	PrecSep-21	
160-52329-51	23110003-051	Total/NA	Water	PrecSep-21	
160-52329-52	23110003-052	Total/NA	Water	PrecSep-21	
160-52329-53	23110003-053	Total/NA	Water	PrecSep-21	
160-52329-54	23110003-054	Total/NA	Water	PrecSep-21	
160-52329-55	23110003-055	Total/NA	Water	PrecSep-21	
160-52329-56	23110003-056	Total/NA	Water	PrecSep-21	
160-52329-57	23110003-057	Total/NA	Water	PrecSep-21	
160-52329-58	23110003-058	Total/NA	Water	PrecSep-21	
MB 160-638560/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-638560/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-52329-46 DU	23110003-046	Total/NA	Water	PrecSep-21	

Prep Batch: 638561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-46	23110003-046	Total/NA	Water	PrecSep_0	
160-52329-47	23110003-047	Total/NA	Water	PrecSep_0	
160-52329-48	23110003-048	Total/NA	Water	PrecSep_0	
160-52329-49	23110003-049	Total/NA	Water	PrecSep_0	
160-52329-50	23110003-050	Total/NA	Water	PrecSep_0	
160-52329-51	23110003-051	Total/NA	Water	PrecSep_0	
160-52329-52	23110003-052	Total/NA	Water	PrecSep_0	
160-52329-53	23110003-053	Total/NA	Water	PrecSep_0	
160-52329-54	23110003-054	Total/NA	Water	PrecSep_0	
160-52329-55	23110003-055	Total/NA	Water	PrecSep_0	
160-52329-56	23110003-056	Total/NA	Water	PrecSep_0	
160-52329-57	23110003-057	Total/NA	Water	PrecSep_0	
160-52329-58	23110003-058	Total/NA	Water	PrecSep_0	
MB 160-638561/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-638561/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-52329-46 DU	23110003-046	Total/NA	Water	PrecSep_0	

Prep Batch: 640393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-19	23110003-019	Total/NA	Water	PrecSep-21	
MB 160-640393/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-640393/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 640394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-52329-19	23110003-019	Total/NA	Water	PrecSep_0	
MB 160-640394/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-640394/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 SDG: 23110003

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)
160-52329-1	23110003-001	94.3	
160-52329-2	23110003-002	91.3	
160-52329-3	23110003-003	92.3	
160-52329-4	23110003-004	94.5	
160-52329-5	23110003-005	86.3	
160-52329-6	23110003-006	86.8	
160-52329-7	23110003-007	90.8	
160-52329-8	23110003-008	96.8	
160-52329-9	23110003-009	97.8	
160-52329-9 DU	23110003-009	95.8	
160-52329-10	23110003-010	90.8	
160-52329-11	23110003-011	99.0	
160-52329-12	23110003-012	96.5	
160-52329-13	23110003-013	97.0	
160-52329-14	23110003-014	97.0	
160-52329-15	23110003-015	98.8	
160-52329-16	23110003-016	95.0	
160-52329-17	23110003-017	97.5	
160-52329-19	23110003-019	89.3	
160-52329-20	23110003-020	92.5	
160-52329-22	23110003-022	94.8	
160-52329-23	23110003-023	95.8	
160-52329-24	23110003-024	94.0	
160-52329-25	23110003-025	92.8	
160-52329-27	23110003-027	89.1	
160-52329-28	23110003-028	92.3	
160-52329-29	23110003-029	89.3	
160-52329-30	23110003-030	84.6	
160-52329-31	23110003-031	90.8	
160-52329-32	23110003-032	73.1	
160-52329-33	23110003-033	89.8	
160-52329-34	23110003-034	88.1	
160-52329-34 DU	23110003-034	87.3	
160-52329-35	23110003-035	97.5	
160-52329-36	23110003-036	96.5	
160-52329-38	23110003-038	93.5	
160-52329-39	23110003-039	97.3	
160-52329-40	23110003-040	90.8	
160-52329-41	23110003-041	89.8	
160-52329-42	23110003-042	93.8	
160-52329-43	23110003-043	89.6	
160-52329-44	23110003-044	96.0	
160-52329-45	23110003-045	90.5	
160-52329-46	23110003-046	95.5	
160-52329-46 DU	23110003-046	93.8	
160-52329-47	23110003-047	92.3	
160-52329-48	23110003-048	95.8	
160-52329-49	23110003-049	86.6	
160-52329-50	23110003-050	96.3	

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 Job No: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
160-52329-51	23110003-051	89.1
160-52329-52	23110003-052	72.6
160-52329-53	23110003-053	91.3
160-52329-54	23110003-054	94.3
160-52329-55	23110003-055	77.6
160-52329-56	23110003-056	94.5
160-52329-57	23110003-057	94.0
160-52329-58	23110003-058	91.5
LCS 160-638554/2-A	Lab Control Sample	95.8
LCS 160-638556/2-A	Lab Control Sample	95.8
LCS 160-638560/2-A	Lab Control Sample	86.6
LCS 160-640393/2-A	Lab Control Sample	93.5
MB 160-638554/1-A	Method Blank	96.0
MB 160-638556/1-A	Method Blank	95.8
MB 160-638560/1-A	Method Blank	93.5
MB 160-640393/1-A	Method Blank	100

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)
160-52329-1	23110003-001	94.3	82.2
160-52329-2	23110003-002	91.3	81.1
160-52329-3	23110003-003	92.3	81.5
160-52329-4	23110003-004	94.5	82.2
160-52329-5	23110003-005	86.3	81.1
160-52329-6	23110003-006	86.8	83.7
160-52329-7	23110003-007	90.8	82.2
160-52329-8	23110003-008	96.8	84.1
160-52329-9	23110003-009	97.8	83.7
160-52329-9 DU	23110003-009	95.8	83.4
160-52329-10	23110003-010	90.8	76.6
160-52329-11	23110003-011	99.0	81.9
160-52329-12	23110003-012	96.5	68.8
160-52329-13	23110003-013	97.0	84.9
160-52329-14	23110003-014	97.0	80.4
160-52329-15	23110003-015	98.8	83.4
160-52329-16	23110003-016	95.0	80.7
160-52329-17	23110003-017	97.5	85.2
160-52329-19	23110003-019	89.3	77.0
160-52329-20	23110003-020	92.5	84.9
160-52329-22	23110003-022	94.8	84.1
160-52329-23	23110003-023	95.8	84.1
160-52329-24	23110003-024	94.0	84.1
160-52329-25	23110003-025	92.8	84.9
160-52329-27	23110003-027	89.1	82.6

Eurofins St. Louis

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 4, 2023
 COFFEEN POWER PLANT, ASH POND NO. 2
 Job ID: 160-52329-1
 Job No: 160-52329-1
 SDG: 23110003

Client: TekLab, Inc
 Project/Site: Radium-226 and Radium-228

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
160-52329-28	23110003-028	92.3	83.4
160-52329-29	23110003-029	89.3	82.2
160-52329-30	23110003-030	84.6	79.3
160-52329-31	23110003-031	90.8	78.1
160-52329-32	23110003-032	73.1	80.4
160-52329-33	23110003-033	89.8	82.2
160-52329-34	23110003-034	88.1	86.0
160-52329-34 DU	23110003-034	87.3	78.5
160-52329-35	23110003-035	97.5	82.6
160-52329-36	23110003-036	96.5	71.8
160-52329-38	23110003-038	93.5	80.7
160-52329-39	23110003-039	97.3	77.8
160-52329-40	23110003-040	90.8	82.6
160-52329-41	23110003-041	89.8	80.7
160-52329-42	23110003-042	93.8	84.1
160-52329-43	23110003-043	89.6	84.5
160-52329-44	23110003-044	96.0	84.1
160-52329-45	23110003-045	90.5	82.2
160-52329-46	23110003-046	95.5	77.0
160-52329-46 DU	23110003-046	93.8	79.3
160-52329-47	23110003-047	92.3	78.9
160-52329-48	23110003-048	95.8	78.9
160-52329-49	23110003-049	86.6	73.3
160-52329-50	23110003-050	96.3	80.4
160-52329-51	23110003-051	89.1	75.9
160-52329-52	23110003-052	72.6	78.1
160-52329-53	23110003-053	91.3	80.4
160-52329-54	23110003-054	94.3	81.1
160-52329-55	23110003-055	77.6	77.4
160-52329-56	23110003-056	94.5	81.1
160-52329-57	23110003-057	94.0	80.4
160-52329-58	23110003-058	91.5	81.9
LCS 160-638555/2-A	Lab Control Sample	95.8	86.0
LCS 160-638558/2-A	Lab Control Sample	95.8	87.9
LCS 160-638561/2-A	Lab Control Sample	86.6	80.4
LCS 160-640394/2-A	Lab Control Sample	93.5	81.1
MB 160-638555/1-A	Method Blank	96.0	87.1
MB 160-638558/1-A	Method Blank	95.8	86.4
MB 160-638561/1-A	Method Blank	93.5	82.2
MB 160-640394/1-A	Method Blank	100	80.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Site Sampling Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
001	G101	Groundwater Sample	62.0	None	N	Clear	Good	Good	Good	Yes	Yes
002	G102	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
003	G103	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
004	G105	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
005	G106	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
006	G107	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
007	G108	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
008	G109	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
009	G110	Groundwater Sample	62.0	None	N	Clear	Good	Good	Good	Yes	Yes
010	G111	Groundwater Sample	61.0	None	N	Clear	Good	Good	Good	Yes	Yes
011	G119	Groundwater Sample	52.0	None	N	Clear	Good	Good	Good	Yes	Yes
012	G120	Groundwater Sample	50.0	None	N	Clear	Good	Good	Good	Yes	Yes
013	G121	Groundwater Sample	48.0	None	N	Clear	Good	Good	Good	Yes	Yes
014	G122	Groundwater Sample	46.0	None	N	Clear	Good	Good	Good	Yes	Yes
015	G123	Groundwater Sample	44.0	None	N	Clear	Good	Good	Good	Yes	Yes
016	G124	Groundwater Sample	45.0	None	N	Clear	Good	Good	Good	Yes	Yes
017	G125	Groundwater Sample	48.0	None	N	Clear	Good	Good	Good	Yes	Yes
018	G126	Groundwater Sample	59.0	None	N	Clear	Good	Good	Good	Yes	Yes
019	G151	Groundwater Sample	60.0	None	N	Clear	Good	Good	Good	Yes	Yes
020	G152	Groundwater Sample	46.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
021	G153	Groundwater Sample	66.0	None	N	Clear	Good	Good	Good	Yes	Yes
022	G154	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
023	G155	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
024	G200	Groundwater Sample	48.0	None	NW	Clear	Good	Good	Good	Yes	Yes
025	G206	Groundwater Sample	67.0	None	NE	Clear	Good	Good	Good	Yes	Yes
026	G206D	Groundwater Sample	58.0	None	E	Cloudy	Good	Good	Good	Yes	Yes
027	G207	Groundwater Sample	43.0	None	NW	Clear	Good	Good	Good	Yes	Yes
028	G208	Groundwater Sample	58.0	None	E	Cloudy	Good	Good	Good	Yes	Yes
029	G209	Groundwater Sample	68.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
030	G210	Groundwater Sample	67.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
031	G211	Groundwater Sample	67.0	None	N	Clear	Good	Good	Good	Yes	Yes
032	G212	Groundwater Sample	66.0	None	N	Clear	Good	Good	Good	Yes	Yes
033	G213	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
034	G214	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
035	G215	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes

Site Sampling Event: Coffeen 4Q 2023
 LIMS Workorder: 23110002
 Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
 Coffeen- 4Q 2023

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
036	G216	Groundwater Sample	61.0	None	N	Clear	Good	Good	Good	Yes	Yes
037	G217	Groundwater Sample	60.0	None	N	Clear	Good	Good	Good	Yes	Yes
038	G218	Groundwater Sample	56.0	None	N	Clear	Good	Good	Good	Yes	Yes
039	G270	Groundwater Sample	59.0	None	N	Cloudy	Good	Good	Good	Yes	Yes
040	G271	Groundwater Sample	59.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
041	G272	Groundwater Sample	59.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
042	G273	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
043	G274	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
044	G275	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
045	G275D	Groundwater Sample	42.0	None	N	Clear	Good	Good	Good	Yes	Yes
046	G276	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
047	G277	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
048	G278	Groundwater Sample	47.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
049	G279	Groundwater Sample	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
050	G280	Groundwater Sample	48.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
051	G281	Groundwater Sample	47.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
052	G283	Groundwater Sample	48.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
053	G284	Groundwater Sample	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
054	G285	Groundwater Sample	49.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
055	G286	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
056	G288	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
057	G301	Groundwater Sample	49.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
058	G302	Groundwater Sample	50.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
059	G303	Groundwater Sample	42.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
060	G305	Groundwater Sample	64.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
061	G306	Groundwater Sample	65.0	None	S	Clear	Good	Good	Good	Yes	Yes
062	G307	Groundwater Sample	41.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
063	G307D	Groundwater Sample	65.0	None	S	Clear	Good	Good	Good	Yes	Yes
064	G308	Groundwater Sample	64.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
065	G309	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
066	G310	Groundwater Sample	49.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
067	G312	Groundwater Sample	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
068	G313	Groundwater Sample	50.0	None	E	Cloudy	Good	Good	Good	Yes	Yes
069	G314	Groundwater Sample	50.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
070	G314D	Groundwater Sample	50.0	None	E	Cloudy	Good	Good	Good	Yes	Yes



Site Sampling Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
071	G315	Groundwater Sample	41.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
072	G316	Groundwater Sample	52.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
073	G317	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
074	G401	Groundwater Sample	43.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
075	G402	Groundwater Sample	43.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
076	G403	Groundwater Sample	49.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
077	G404	Groundwater Sample	44.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
078	G405	Groundwater Sample	44.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
079	G406	Groundwater Sample	51.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
080	G407	Groundwater Sample	50.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
081	G410	Groundwater Sample	51.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
082	G411	Groundwater Sample	52.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
083	G1001	Groundwater Sample	57.0	None	NW	Clear	Good	Good	Good	Yes	Yes
084	G1003	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
085	L202	Leachate Sample	65.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
086	MW03D	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
087	MW12D	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
088	MW20S	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
089	NE Riser	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
090	R104	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
091	R201	Groundwater Sample	54.0	None	NW	Clear	Good	Good	Good	Yes	Yes
092	R205	Groundwater Sample	53.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
093	SG-02	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
094	SG-03	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
095	SG-04	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
096	T127	Groundwater Sample	56.0	None	N	Clear	Good	Good	Good	Yes	Yes
097	T128	Groundwater Sample	54.0	None	N	Clear	Good	Good	Good	Yes	Yes
098	X201	Groundwater Sample	53.0	None	W	Cloudy	Other (see note)	Other (see note)	Other (see note)	No	No
099	XPW01	Groundwater Sample	65.0	None	S	Cloudy	Good	Good	Good	Yes	No
100	XPW02	Groundwater Sample	65.0	None	S	Cloudy	Good	Good	Good	Yes	No
101	XSG-01	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
102	Field Blank	QA/QC Sample	43.0	None	SE	Cloudy					
103	G102 Duplicate	QA/QC Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
104	G200 Duplicate	QA/QC Sample	48.0	None	NW	Clear	Good	Good	Good	Yes	Yes
105	G273 Duplicate	QA/QC Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
106	G301 Duplicate	QA/QC Sample	49.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
107	R201 Duplicate	QA/QC Sample	54.0	None	NW	Clear	Good	Good	Good	Yes	Yes
108	G211	Groundwater Sample	38.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
001	G101	JC	11/14/23 15:43	13.95		JC	11/14/2023	15:48	16:11	Bladder Pump	2"	5.0	217.4
002	G102	JC	11/14/23 15:17	12.84		JC	11/14/2023	15:21	15:37	Bladder Pump	2"	3.0	187.5
003	G103	JC	11/14/23 14:51	16.00		JC	11/14/2023	14:52	15:13	Bladder Pump	2"	4.0	190.5
004	G105	JC	11/14/23 13:57	13.46		JC	11/14/2023	13:59	14:22	Bladder Pump	2"	5.0	217.4
005	G106	JC	11/14/23 13:37	14.21		JC	11/14/2023	13:40	13:54	Bladder Pump	2"	3.0	214.3
006	G107	JC	11/14/23 13:19	14.40		JC	11/14/2023	13:21	13:33	Bladder Pump	2"	2.5	208.3
007	G108	JC	11/14/23 13:04	14.96		JC	11/14/2023	13:06	13:15	Bladder Pump	2"	1.0	111.1
008	G109	JC	11/14/23 12:48	15.09		JC	11/14/2023	12:49	12:59	Bladder Pump	2"	3.0	300.0
009	G110	JC	11/14/23 12:04	15.43		JC	11/14/2023	12:21	12:41	Bladder Pump	2"	7.0	350.0
010	G111	JC	11/14/23 11:51	16.09		JC	11/14/2023	11:51	11:59	Bladder Pump	2"	3.0	375.0
011	G119	JC	11/15/23 9:41	16.25		JC	11/15/2023	09:44	09:52	Bladder Pump	2"	2.5	312.5
012	G120	JC	11/15/23 9:26	17.08		JC	11/15/2023	09:28	09:37	Bladder Pump	2"	2.0	222.2
013	G121	JC	11/15/23 9:09	18.96		JC	11/15/2023	09:13	09:23	Bladder Pump	2"	2.0	200.0
014	G122	JC	11/15/23 8:51	20.40		JC	11/15/2023	08:54	09:06	Bladder Pump	2"	2.0	166.7
015	G123	JC	11/15/23 8:32	19.94		JC	11/15/2023	08:34	08:47	Bladder Pump	2"	3.0	230.8
016	G124	JC	12/7/23 9:40	20.21		JC	12/7/2023	09:42	10:05	Bladder Pump	2"	2.5	108.7
017	G125	JC	12/7/23 10:15	20.32		JC	12/7/2023	10:15	10:25	Bladder Pump	2"	1.0	100.0
018	G126	JC	11/15/23 10:59	11.91		JC	11/15/2023	11:01	11:11	Bladder Pump	2"	2.0	200.0
019	G151	JC	11/15/23 11:13	12.97		JC	11/15/2023	11:17	11:40	Bladder Pump	2"	4.0	173.9
020	G152	JC	11/20/23 8:06	13.03		JC	11/20/2023	08:11	08:30	Submersible Pump	2"	5.0	263.2
021	G153	JC	11/15/23 13:17	14.90		JC	11/15/2023	13:27	13:38	Bladder Pump	2"	2.5	227.3
022	G154	JC	11/15/23 12:21	15.76		JC	11/15/2023	12:29	12:54	Bladder Pump	2"	5.0	200.0
023	G155	JC	11/15/23 11:48	13.92		JC	11/15/2023	11:50	12:16	Bladder Pump	2"	7.0	269.2
024	G200	JC	11/14/23 9:17	11.88		JC	11/14/2023	09:23	10:01	Submersible Pump	2"	14.0	368.4
025	G206	JC	11/15/23 14:17	16.16		JC	11/15/2023	14:21	14:31	Bladder Pump	2"	2.0	200.0
026	G206D	JC	11/17/23 8:26	30.40		JC	11/17/2023	08:33	08:42	Bladder Pump	2"	2.0	222.2
027	G207	JC	11/14/23 8:36	16.67		JC	11/14/2023	08:41	08:49	Submersible Pump	2"	2.0	250.0
028	G208	JC	11/17/23 7:57	16.66		JC	11/17/2023	08:13	08:21	Bladder Pump	2"	2.0	250.0
029	G209	JC	11/16/23 14:25	16.24		JC	11/16/2023	14:29	14:39	Bladder Pump	2"	3.0	300.0
030	G210	JC	11/16/23 14:05	15.82		JC	11/16/2023	14:06	14:21	Bladder Pump	2"	4.5	300.0
031	G211	JC	11/16/23 13:16	15.61		JC	11/16/2023	13:28	13:53	Bladder Pump	2"	8.0	320.0
032	G212	JC	11/16/23 12:51	16.92		JC	11/16/2023	13:02	13:12	Bladder Pump	2"	2.0	200.0
033	G213	JC	11/16/23 12:21	17.41		JC	11/16/2023	12:26	12:48	Bladder Pump	2"	6.5	295.5
034	G214	JC	11/16/23 11:56	19.35		JC	11/16/2023	12:07	12:18	Bladder Pump	2"	2.0	181.8
035	G215	JC	11/16/23 11:26	19.03		JC	11/16/2023	11:34	11:52	Bladder Pump	2"	2.0	111.1



Site Sampling Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
036	G216	JC	11/16/23 10:47	18.21		JC	11/16/2023	11:05	11:20	Bladder Pump	2"	3.5	233.3
037	G217	JC	11/16/23 10:16	19.68		JC	11/16/2023	10:26	10:43	Bladder Pump	2"	4.0	235.3
038	G218	JC	11/16/23 9:42	18.67		JC	11/16/2023	09:45	10:13	Bladder Pump	2"	9.0	321.4
039	G270	JC	11/17/23 8:55	10.90		JC	11/17/2023	09:00	09:13	Bladder Pump	2"	2.0	153.8
040	G271	JC	11/17/23 9:18	13.00		JC	11/17/2023	09:27	09:42	Bladder Pump	2"	5.0	333.3
041	G272	JC	11/17/23 9:47	12.01		JC	11/17/2023	09:59	10:19	Bladder Pump	2"	3.5	175.0
042	G273	JC	11/17/23 10:23	12.71		JC	11/17/2023	10:29	10:37	Bladder Pump	2"	2.0	250.0
043	G274	JC	11/17/23 10:41	15.77		JC	11/17/2023	10:51	11:00	Bladder Pump	2"	2.0	222.2
044	G275	JC	11/13/23 9:28										
045	G275D	JC	12/7/23 8:54	39.56		JC	12/7/2023	08:58	09:13	Bladder Pump	2"	3.0	200.0
046	G276	JC	11/17/23 11:10	28.59		JC	11/17/2023	11:20	11:35	Bladder Pump	2"	4.0	266.7
047	G277	JC	11/13/23 9:33										
048	G278	JC	11/20/23 9:17	24.23		JC	11/20/2023	09:20	09:31	Submersible Pump	2"	4.0	363.6
049	G279	JC	11/17/23 11:54	23.39		JC	11/17/2023	11:55	12:03	Bladder Pump	2"	2.0	250.0
050	G280	JC	11/20/23 9:39	8.91		JC	11/20/2023	09:42	09:50	Bladder Pump	2"	1.5	187.5
051	G281	JC	11/20/23 8:43	8.59		JC	11/20/2023	08:46	08:56	Bladder Pump	2"	2.0	200.0
052	G283	JC	11/20/23 9:54	7.22		JC	11/20/2023	10:09	10:34	Bladder Pump	2"	4.0	160.0
053	G284	JC	11/13/23 9:03										
054	G285	JC	11/20/23 10:38	9.38		JC	11/20/2023	10:52	11:02	Bladder Pump	2"	1.5	150.0
055	G286	JC	11/13/23 12:46										
056	G288	JC	11/13/23 12:49	9.84									
057	G301	TAC	11/20/23 10:14	8.25		DC	11/20/2023	10:15	10:42	Bladder Pump	2"	7.5	277.8
058	G302	TAC	11/20/23 12:01	12.73		DC	11/20/2023	12:01	12:22	Bladder Pump	2"	4.5	214.3
059	G303	DC	11/21/23 11:03	8.90		DC	11/21/2023	11:03	11:28	Bladder Pump	2"	6.0	240.0
060	G305	TAC	11/17/23 10:32	9.25		DC	11/17/2023	10:33	10:55	Bladder Pump	2"	6.0	272.7
061	G306	TAC	11/17/23 12:06	9.84		DC	11/17/2023	12:07	12:26	Bladder Pump	2"	5.5	289.5
062	G307	TAC	11/21/23 8:39	1.33		DC	11/21/2023	08:41	09:37	Peristaltic Pump	2"	7.0	125.0
063	G307D	TAC	11/17/23 11:14	11.72		DC	11/17/2023	11:16	11:38	Bladder Pump	2"	3.0	136.4
064	G308	TAC	11/17/23 9:52	5.82		DC	11/17/2023	09:53	10:11	Bladder Pump	2"	4.5	250.0
065	G309	JC	11/13/23 10:51	8.32									
066	G310	TAC	11/20/23 9:26	10.63		DC	11/20/2023	09:26	09:49	Bladder Pump	2"	5.0	217.4
067	G312	JC	11/13/23 11:08										
068	G313	TAC	11/20/23 13:43	3.13		DC	11/20/2023	13:44	14:04	Bladder Pump	2"	5.5	275.0
069	G314	TAC	11/20/23 14:53	5.88		DC	11/20/2023	15:06	15:24	Bladder Pump	2"	3.5	194.4
070	G314D	DC	11/20/23 14:26	8.05		DC	11/20/2023	14:26	14:49	Bladder Pump	2"	6.0	260.9



Site Sampling Event: Coffeen 4Q 2023
 LIMS Workorder: 23110002
 Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
 Coffeen- 4Q 2023

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
071	G315	TAC	11/21/23 10:13	2.93		DC	11/21/2023	10:15	10:37	Bladder Pump	2"	4.5	204.5
072	G316	TAC	11/20/23 13:00	12.48		DC	11/20/2023	13:00	13:21	Bladder Pump	2"	4.5	214.3
073	G317	JC	11/13/23 12:55										
074	G401	JC	11/21/23 8:57	13.63		JC	11/21/2023	09:04	09:24	Bladder Pump	2"	2.0	100.0
075	G402	JC	11/21/23 8:18	11.71		JC	11/21/2023	08:25	08:37	Bladder Pump	2"	2.0	166.7
076	G403	JC	11/20/23 11:30	8.27		JC	11/20/2023	11:30	11:41	Bladder Pump	2"	3.5	318.2
077	G404	JC	11/21/23 9:51	6.48		JC	11/21/2023	09:54	10:07	Bladder Pump	2"	2.0	153.8
078	G405	JC	11/21/23 10:11	7.73		JC	11/21/2023	10:23	10:32	Bladder Pump	2"	1.5	166.7
079	G406	JC	11/20/23 12:56	13.83		JC	11/20/2023	13:11	13:20	Bladder Pump	2"	1.0	111.1
080	G407	JC	11/20/23 11:45	8.31		JC	11/20/2023	12:04	12:18	Bladder Pump	2"	1.5	107.1
081	G410	JC	11/20/23 12:22	10.68		JC	11/20/2023	12:37	12:50	Bladder Pump	2"	2.0	153.8
082	G411	JC	11/20/23 13:24	11.20		JC	11/20/2023	13:40	13:50	Bladder Pump	2"	1.5	150.0
083	G1001	JC	11/14/23 11:03	6.49		JC	11/14/2023	11:06	11:36	Submersible Pump	2"	10.0	333.3
084	G1003	JC	11/13/23 10:20										
085	L202	JC	11/13/23 13:16	22.00		TAC	11/16/2023						
086	MW03D	JC	11/13/23 9:57	32.01									
087	MW12D	JC	11/13/23 10:41	15.64									
088	MW20S	JC	11/13/23 9:54	11.96									
089	NE Riser	JC											
090	R104	JC	11/14/23 14:27	12.91		JC	11/14/2023	14:32	14:40	Bladder Pump	2"	3.5	437.5
091	R201	JC	11/14/23 10:15	11.73		JC	11/14/2023	10:20	10:34	Submersible Pump	2"	5.0	357.1
092	R205	JC	11/20/23 14:12	11.48		JC	11/20/2023	14:13	14:39	Bladder Pump	2"	3.0	115.4
093	SG-02	JC	11/13/23 14:03	7.36									
094	SG-03	JC	11/13/23 13:53	9.71									
095	SG-04	JC	11/13/23 14:21	6.32									
096	T127	JC	11/15/23 10:17	15.95		JC	11/15/2023	10:24	10:52	Submersible Pump	2"	8.0	285.7
097	T128	JC	11/15/23 9:56	15.50		JC	11/15/2023	10:00	10:11	Bladder Pump	2"	3.0	272.7
098	X201	JC	11/20/23 13:59	34.00		JC	11/20/2023	14:08	14:08	Bailer			
099	XPW01	TAC	11/17/23 9:18	6.28		DC	11/17/2023	09:19	09:39	Bladder Pump	2"	6.5	325.0
100	XPW02	TAC	11/17/23 8:38	11.13		DC	11/17/2023	08:44	09:02	Bladder Pump	2"	4.5	250.0
101	XSG-01	JC	11/13/23 13:16	10.38									
102	Field Blank												
103	G102 Duplicate	JC	11/14/23 15:17	12.84		JC	11/14/2023	15:21	15:37	Bladder Pump	2"	3.0	187.5
104	G200 Duplicate	JC	11/14/23 9:17	11.88		JC	11/14/2023	09:23	10:01	Submersible Pump	2"	14.0	368.4
105	G273 Duplicate	JC	11/17/23 10:23	12.71		JC	11/17/2023	10:29	10:37	Bladder Pump	2"	2.0	250.0



Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
106	G301 Duplicate	TAC	11/20/23 10:14	8.25		DC	11/20/2023	10:15	10:42	Bladder Pump	2"	7.5	277.8
107	R201 Duplicate	JC	11/14/23 10:15	11.73		JC	11/14/2023	10:20	10:34	Submersible Pump	2"	5.0	357.1
108	G211	JC	12/6/23 10:36	15.94		JC	12/6/2023	10:37	11:16	Bladder Pump	2"	4.5	115.4

Site Samping Event: Coffeen 4Q 2023
 LIMS Workorder: 23110002
 Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
 Coffeen- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
001	G101	JC	11/14/23	16:11	Low Flow	Yes	Clear	None	none	14.10	0.15
002	G102	JC	11/14/23	15:37	Low Flow	Yes	Clear	None	none	13.32	0.48
003	G103	JC	11/14/23	15:13	Low Flow	Yes	Clear	None	none	18.06	2.06
004	G105	JC	11/14/23	14:22	Low Flow	Yes	Clear	None	none	17.33	3.87
005	G106	JC	11/14/23	13:54	Low Flow	Yes	Clear	None	none	17.68	3.47
006	G107	JC	11/14/23	13:33	Low Flow	Yes	Clear	None	none	16.86	2.46
007	G108	JC	11/14/23	13:15	Low Flow	Yes	Clear	None	none	16.85	1.89
008	G109	JC	11/14/23	12:59	Low Flow	Yes	Clear	None	none	15.96	0.87
009	G110	JC	11/14/23	12:41	Low Flow	Yes	Clear	None	none	16.04	0.61
010	G111	JC	11/14/23	11:59	Low Flow	Yes	Clear	None	none	17.00	0.91
011	G119	JC	11/15/23	09:52	Low Flow	Yes	Clear	None	none	18.30	2.05
012	G120	JC	11/15/23	09:37	Low Flow	Yes	Clear	None	none	18.79	1.71
013	G121	JC	11/15/23	09:23	Low Flow	Yes	Clear	None	none	20.42	1.46
014	G122	JC	11/15/23	09:06	Low Flow	Yes	Clear	None	none	21.20	0.8
015	G123	JC	11/15/23	08:47	Low Flow	Yes	Clear	None	none	20.54	0.6
016	G124	JC	12/07/23	10:05	Low Flow	Yes	Slightly cloudy	None	none	21.06	0.85
017	G125	JC	12/07/23	10:25	Low Flow	Yes	Clear	None	none	20.76	0.44
018	G126	JC	11/15/23	11:11	Low Flow	Yes	Clear	None	none	12.20	0.29
019	G151	JC	11/15/23	11:40	Low Flow	Yes	Clear	None	none	13.58	0.61
020	G152	JC	11/20/23	08:30	Low Flow	Yes	Slightly cloudy	None	none	21.04	8.01
021	G153	JC	11/15/23	13:38	Low Flow	Yes	Clear	None	none	16.68	1.78
022	G154	JC	11/15/23	12:54	Low Flow	Yes	Clear	None	none	16.61	0.85
023	G155	JC	11/15/23	12:16	Low Flow	Yes	Cloudy	None	lt brown	18.91	4.99
024	G200	JC	11/14/23	10:01	Low Flow	Yes	Slightly cloudy	None	none	13.01	1.13
025	G206	JC	11/15/23	14:31	Low Flow	Yes	Clear	None	none	17.20	1.04
026	G206D	JC	11/17/23	08:42	Low Flow	Yes	Clear	Slight	none	31.45	1.05
027	G207	JC	11/14/23	08:49	Low Flow	Yes	Slightly cloudy	None	none	19.80	3.13
028	G208	JC	11/17/23	08:21	Low Flow	Yes	Clear	None	none	17.80	1.14
029	G209	JC	11/16/23	14:39	Low Flow	Yes	Clear	None	none	18.36	2.12
030	G210	JC	11/16/23	14:21	Low Flow	Yes	Clear	None	none	16.85	1.03
031	G211	JC	11/16/23	13:53	Low Flow	Yes	Clear	None	none	17.91	2.3
032	G212	JC	11/16/23	13:12	Low Flow	Yes	Clear	None	none	17.85	0.93
033	G213	JC	11/16/23	12:48	Low Flow	Yes	Clear	None	none	18.61	1.2
034	G214	JC	11/16/23	12:18	Low Flow	Yes	Clear	None	none	20.48	1.13
035	G215	JC	11/16/23	11:52	Low Flow	Yes	Clear	None	none	19.08	0.05



Site Sampling Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
036	G216	JC	11/16/23	11:20	Low Flow	Yes	Clear	None	none	19.32	1.11
037	G217	JC	11/16/23	10:43	Low Flow	Yes	Clear	None	none	20.10	0.42
038	G218	JC	11/16/23	10:13	Low Flow	Yes	Clear	None	none	19.81	1.14
039	G270	JC	11/17/23	09:13	Low Flow	Yes	Clear	None	none	11.31	0.41
040	G271	JC	11/17/23	09:42	Low Flow	Yes	Clear	None	none	14.20	1.2
041	G272	JC	11/17/23	10:19	Low Flow	Yes	Clear	None	none	12.46	0.45
042	G273	JC	11/17/23	10:37	Low Flow	Yes	Clear	None	none	13.09	0.38
043	G274	JC	11/17/23	11:00	Low Flow	Yes	Clear	None	none	16.19	0.42
044	G275	JC	11/17/23								
045	G275D	JC	12/07/23	09:13	Low Flow	No	Slightly cloudy	Slight	none	42.15	2.59
046	G276	JC	11/17/23	11:34	Low Flow	Yes	Slightly cloudy	None	none	29.80	1.21
047	G277	JC	11/17/23								
048	G278	JC	11/20/23	09:31	Low Flow	Yes	Slightly cloudy	None	none	26.09	1.86
049	G279	JC	11/17/23	12:03	Low Flow	Yes	Clear	None	none	24.02	0.63
050	G280	JC	11/20/23	09:50	Low Flow	Yes	Clear	None	none	9.11	0.2
051	G281	JC	11/20/23	08:56	Low Flow	Yes	Clear	None	none	8.94	0.35
052	G283	JC	11/20/23	10:34	Low Flow	No	Clear	None	none	8.03	0.81
053	G284	JC	11/17/23								
054	G285	JC	11/20/23	11:02	Low Flow	No	Clear	None	none	10.98	1.6
055	G286										
056	G288										
057	G301	TAC	11/20/23	10:42	Low Flow	No	Clear	Slight	None	9.56	1.31
058	G302	TAC	11/20/23	12:22	Low Flow	No	Clear	Slight	None	13.55	0.82
059	G303	TAC	11/21/23	11:28	Low Flow	No	Clear	None	None	11.21	2.31
060	G305	TAC	11/17/23	10:55	Low Flow	No	Clear	None	None	9.46	0.21
061	G306	TAC	11/17/23	12:26	Low Flow	No	Cloudy	None	Lite Brown	12.64	2.8
062	G307	TAC	11/21/23	09:37	Low Flow	No	Clear	None	None	1.46	0.13
063	G307D	TAC	11/17/23	11:38	Low Flow	No	Clear	None	None	16.55	4.83
064	G308	TAC	11/17/23	10:11	Low Flow	No	Clear	None	None	6.44	0.62
065	G309										
066	G310	TAC	11/20/23	09:49	Low Flow	No	Clear	None	None	10.91	0.28
067	G312	JC	11/17/23								
068	G313	TAC	11/20/23	14:04	Low Flow	No	Clear	Slight	None	3.83	0.7
069	G314	TAC	11/20/23	15:24	Low Flow	No	Clear	None	None	10.40	4.52
070	G314D	TAC	11/20/23	14:49	Low Flow	No	Clear	Slight	None	17.76	9.71



Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
071	G315	TAC	11/20/23	10:37	Low Flow	No	Clear	None	None	3.50	0.57
072	G316	TAC	11/20/23	13:21	Low Flow	No	Clear	None	None	13.10	0.62
073	G317										
074	G401	JC	11/21/23	09:24	Low Flow	Yes	Slightly cloudy	None	lt brown	14.07	0.44
075	G402	JC	11/21/23	08:37	Low Flow	Yes	Slightly cloudy	None	none	11.72	0.01
076	G403	JC	11/20/23	11:41	Low Flow	Yes	Clear	Slight	none	11.40	3.13
077	G404	JC	11/21/23	10:07	Low Flow	Yes	Clear	None	none	6.78	0.3
078	G405	JC	11/21/23	10:32	Low Flow	Yes	Clear	None	none	8.02	0.29
079	G406	JC	11/20/23	13:20	Low Flow	Yes	Clear	None	none	14.46	0.63
080	G407	JC	11/20/23	12:18	Low Flow	Yes	Clear	None	none	10.04	1.73
081	G410	JC	11/20/23	12:50	Low Flow	Yes	Clear	None	none	10.74	0.06
082	G411	JC	11/20/23	13:50	Low Flow	Yes	Clear	None	none	11.49	0.29
083	G1001	JC	11/14/23	11:36	Low Flow	No	Slightly cloudy	None	none	10.06	3.57
084	G1003										
085	L202	TAC	11/16/23	11:38	No purge						
086	MW03D										
087	MW12D										
088	MW20S										
089	NE Riser										
090	R104	JC	11/14/23	14:40	Low Flow	Yes	Clear	None	none	18.10	5.19
091	R201	JC	11/14/23	10:37	Low Flow	Yes	Clear	Slight	none	14.98	3.25
092	R205	JC	11/20/23	14:39	Low Flow	Yes	Slightly cloudy	None	none	11.81	0.33
093	SG-02										
094	SG-03										
095	SG-04										
096	T127	JC	11/15/23	10:52	Low Flow	Yes	Slightly cloudy	None	none	16.58	0.63
097	T128	JC	11/15/23	10:11	Low Flow	Yes	Clear	None	none	15.80	0.3
098	X201	JC	11/20/23	14:08	No purge	No	Clear	None	none	34.00	0
099	XPW01	TAC	11/17/23	09:39	Low Flow	No	Clear	None	None	6.30	0.02
100	XPW02	TAC	11/17/23	09:02	Low Flow	No	Clear	None	None	11.13	0
101	XSG-01										
102	Field Blank	JC	11/21/23	10:36							
103	G102 Duplicate	JC	11/14/23	15:37	Low Flow	Yes	Clear	None	none	13.32	0.48
104	G200 Duplicate	JC	11/14/23	10:01	Low Flow	Yes	Slightly cloudy	None	none	13.01	1.13
105	G273 Duplicate	JC	11/17/23	10:37	Low Flow	Yes	Clear	None	none	13.09	0.38

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
106	G301 Duplicate	TAC	11/20/23	10:42	Low Flow	No	Clear	Slight	None	9.56	1.31
107	R201 Duplicate	JC	11/14/23	10:37	Low Flow	Yes	Clear	Slight	none	14.98	3.25
108	G211	JC	12/06/23	11:16	Low Flow	No	Clear	None	none	17.00	1.06

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
001	G101	
002	G102	
003	G103	
004	G105	
005	G106	
006	G107	
007	G108	
008	G109	
009	G110	
010	G111	
011	G119	
012	G120	
013	G121	
014	G122	
015	G123	
016	G124	
017	G125	
018	G126	
019	G151	
020	G152	
021	G153	
022	G154	
023	G155	
024	G200	
025	G206	
026	G206D	
027	G207	
028	G208	
029	G209	
030	G210	
031	G211	
032	G212	
033	G213	
034	G214	
035	G215	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
036	G216	
037	G217	
038	G218	
039	G270	
040	G271	
041	G272	
042	G273	
043	G274	
044	G275	Dry- no sample
045	G275D	
046	G276	
047	G277	Dry- no sample
048	G278	
049	G279	
050	G280	
051	G281	
052	G283	
053	G284	Dry- no sample
054	G285	
055	G286	Dry- No measurable water
056	G288	
057	G301	
058	G302	
059	G303	
060	G305	
061	G306	
062	G307	Had to remove pump and sample via perastaltic
063	G307D	
064	G308	
065	G309	
066	G310	
067	G312	Dry- no sample
068	G313	
069	G314	
070	G314D	



Site Samping Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
071	G315	
072	G316	
073	G317	Dry- No measurable water
074	G401	
075	G402	
076	G403	
077	G404	
078	G405	
079	G406	
080	G407	
081	G410	
082	G411	
083	G1001	
084	G1003	Dry- No measurable water
085	L202	
086	MW03D	
087	MW12D	
088	MW20S	
089	NE Riser	Unable to get elevation (no transducer)
090	R104	
091	R201	
092	R205	
093	SG-02	
094	SG-03	
095	SG-04	
096	T127	
097	T128	
098	X201	lechate
099	XPW01	
100	XPW02	Put DTW on wrong line DTW taken at 8.38
101	XSG-01	
102	Field Blank	
103	G102 Duplicate	
104	G200 Duplicate	
105	G273 Duplicate	



Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
106	G301 Duplicate	
107	R201 Duplicate	
108	G211	*Resample

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

**Stabilized Field Parameters Summary
Coffeen- 4Q 2023**

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID		
G101	11/14/2023	16:11	15.2	59.4	7.16	1,179.4	2.81	21.87	56.3	13.95	23110002-001A		
G102	11/14/2023	15:37	16.4	61.5	7.30	881.0	0.78	26.48	17.9	12.84	23110002-002A		
G103	11/14/2023	15:13	16.4	61.5	7.12	851.5	1.46	15.48	17.2	16.00	23110002-003A		
G105	11/14/2023	14:22	16.6	61.9	7.16	803.5	0.92	8.76	-128.0	13.46	23110002-004A		
G106	11/14/2023	13:54	17.3	63.1	7.02	877.9	3.58	8.61	48.4	14.21	23110002-005A		
G107	11/14/2023	13:33	17.4	63.3	7.20	753.1	3.24	12.34	25.0	14.40	23110002-006A		
G108	11/14/2023	13:15	17.8	64.0	7.20	751.7	2.63	4.03	-70.4	14.96	23110002-007A		
G109	11/14/2023	12:59	16.7	62.1	7.03	938.7	1.28	14.68	50.8	15.09	23110002-008A		
G110	11/14/2023	12:41	17.3	63.1	6.94	908.2	0.98	15.24	1.9	15.43	23110002-009A		
G111	11/14/2023	11:59	17.4	63.3	7.14	817.6	1.15	8.45	9.2	16.09	23110002-010A		
G119	11/15/2023	9:52	16.6	61.9	7.20	703.4	2.93	6.76	114.4	16.25	23110002-011A		
G120	11/15/2023	9:37	16.6	61.9	7.02	875.6	4.11	8.07	121.9	17.08	23110002-012A		
G121	11/15/2023	9:23	16.4	61.5	6.94	946.8	3.52	10.14	122.2	18.96	23110002-013A		
G122	11/15/2023	9:06	15.7	60.3	6.79	1,178.9	4.50	12.43	128.8	20.40	23110002-014A		
G123	11/15/2023	8:47	15.3	59.5	6.87	941.5	1.21	7.42	118.6	19.94	23110002-015A		
G124	12/7/2023	10:05	14.9	58.9	6.88	1,116.1	4.14	9.50	97.9	20.21	23110002-016A		
G125	12/7/2023	10:25	15.6	60.0	7.07	1,147.4	3.88	9.78	100.4	20.32	23110002-017A		
G126	11/15/2023	11:11	17.3	63.1	7.12	887.2	1.38	5.81	87.2	11.91	23110002-018A		
G151	11/15/2023	11:40	17.5	63.5	7.23	906.2	3.05	9.81	102.1	12.97	23110002-019A		
G152	11/20/2023	8:30	16.0	60.8	6.85	845.9	2.01	50.74	88.0	13.03	23110002-020A		
G153	11/15/2023	13:38	17.2	63.0	6.80	3,970.3	1.58	14.37	-80.9	14.90	23110002-021A		
G154	11/15/2023	12:54	17.0	62.6	7.36	660.6	1.37	10.96	100.4	15.76	23110002-022A		
G155	11/15/2023	12:16	18.1	64.6	7.23	917.0	2.80	32.49	100.5	13.92	23110002-023A		
G200	11/14/2023	10:01	16.0	60.8	7.16	793.4	0.98	101.80	96.6	11.88	23110002-024A		
G206	11/15/2023	14:31	17.6	63.7	7.46	801.2	1.21	5.73	-255.9	16.16	23110002-025A		
G206D	11/17/2023	8:42	15.0	59.0	7.14	996.3	1.85	8.10	-53.6	30.40	23110002-026A		
G207	11/14/2023	8:49	16.4	61.5	6.73	632.0	2.35	8.49	130.3	16.67	23110002-027A		
G208	11/17/2023	8:21	16.2	61.2	7.04	525.6	3.28	9.42	138.6	16.66	23110002-028A		
G209	11/16/2023	14:39	16.3	61.3	7.00	1,212.9	1.52	4.71	-22.7	16.24	23110002-029A		
G210	11/16/2023	14:21	16.3	61.3	7.29	848.2	1.05	11.03	87.5	15.82	23110002-030A		
G211	11/16/2023	13:53	17.2	63.0	7.26	786.9	0.86	18.68	43.7	15.61	23110002-031A		
G212	11/16/2023	13:12	16.8	62.2	7.15	680.4	2.36	6.74	102.3	16.92	23110002-032A		
G213	11/16/2023	12:48	16.5	61.7	7.09	661.7	0.84	6.19	83.7	17.41	23110002-033A		
G214	11/16/2023	12:18	16.8	62.2	7.12	923.5	2.38	8.33	82.1	19.35	23110002-034A		
G215	11/16/2023	11:52	17.3	63.1	6.94	1,767.7	1.53	26.69	-11.9	19.03	23110002-035A		
G216	11/16/2023	11:20	16.4	61.5	6.92	2,125.6	2.95	13.72	-53.8	18.21	23110002-036A		
G217	11/16/2023	10:43	16.1	61.0	6.88	1,478.6	0.75	11.29	15.5	19.68	23110002-037A		
G218	11/16/2023	10:13	15.8	60.4	6.84	1,531.8	0.63	20.47	-4.9	18.67	23110002-038A		
G270	11/17/2023	9:13	15.2	59.4	7.12	688.8	1.91	9.98	97.7	10.90	23110002-039A		
G271	11/17/2023	9:42	16.3	61.3	7.18	919.5	2.89	7.14	113.2	13.00	23110002-040A		
G272	11/17/2023	10:19	14.8	58.6	7.18	1,270.8	3.42	8.75	120.4	12.01	23110002-041A		
G273	11/17/2023	10:37	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3	12.71	23110002-042A		
G274	11/17/2023	11:00	15.6	60.1	7.08	1,086.9	1.68	8.07	126.0	15.77	23110002-043A		
G275	11/17/2023		Dry- no sample										23110002-044A
G275D	12/7/2023	9:13	12.9	55.2	6.96	1,823.2	1.23	16.93	42.7	39.56	23110002-045A		
G276	11/17/2023	11:35	15.0	59.0	6.93	1,259.0	4.33	13.17	134.0	28.59	23110002-046A		
G277	11/17/2023		Dry- no sample										23110002-047A



Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary
Coffeen- 4Q 2023

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID		
G278	11/20/2023	9:31	16.2	61.2	6.78	4,574.2	1.28	9.80	126.7	24.23	23110002-048A		
G279	11/17/2023	12:03	16.8	62.2	6.76	5,637.0	1.41	7.29	140.7	23.39	23110002-049A		
G280	11/20/2023	9:50	14.7	58.5	7.39	849.2	1.79	7.89	106.9	8.91	23110002-050A		
G281	11/20/2023	8:56	16.1	61.0	6.90	1,254.0	1.54	9.45	111.8	8.59	23110002-051A		
G283	11/20/2023	10:34	12.6	54.7	7.04	1,188.8	1.72	23.55	88.5	7.22	23110002-052A		
G284	11/17/2023		Dry- no sample									23110002-053A	
G285	11/20/2023	11:02	12.0	53.6	6.71	1,949.5	3.14	20.29	117.7	9.38	23110002-054A		
G286	11/13/2023	12:46	DTW Only								N/A		23110002-055A
G288	11/13/2023	12:49	DTW Only								9.84		23110002-056A
G301	11/20/2023	10:42	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7	8.25	23110002-057A		
G302	11/20/2023	12:22	15.4	59.7	6.50	1,377.3	0.84	15.08	-80.6	12.73	23110002-058A		
G303	11/21/2023	11:28	14.0	57.2	6.63	1,945.3	2.52	26.96	-27.8	8.90	23110002-059A		
G305	11/17/2023	10:55	15.1	59.2	6.91	1,780.7	0.73	10.90	12.0	9.25	23110002-060A		
G306	11/17/2023	12:26	15.3	59.5	6.18	785.5	1.83	31.14	64.4	9.84	23110002-061A		
G307	11/21/2023	9:37	13.2	55.8	6.85	1,184.2	3.41	22.01	100.7	1.33	23110002-062A		
G307D	11/17/2023	11:38	15.4	59.7	6.99	1,466.9	0.79	53.44	-100.9	11.72	23110002-063A		
G308	11/17/2023	10:11	16.0	60.8	6.89	1,872.4	0.81	7.41	5.1	5.82	23110002-064A		
G309	11/13/2023	10:51	DTW Only								8.32		23110002-065A
G310	11/20/2023	9:49	15.7	60.3	6.83	1,388.8	1.06	2.93	85.8	10.63	23110002-066A		
G312	11/17/2023		Dry- no sample									23110002-067A	
G313	11/20/2023	14:04	15.9	60.6	6.67	1,730.7	0.86	6.44	6.3	3.13	23110002-068A		
G314	11/20/2023	15:24	15.1	59.2	6.51	3,239.1	1.67	7.19	-33.9	5.88	23110002-069A		
G314D	11/20/2023	14:49	14.4	57.9	6.73	2,661.2	0.79	15.71	-53.6	8.05	23110002-070A		
G315	11/21/2023	10:37	14.0	57.2	6.54	1,376.9	1.43	4.27	100.5	2.93	23110002-071A		
G316	11/20/2023	13:21	15.0	59.0	6.76	1,893.4	1.00	1.41	-117.1	12.48	23110002-072A		
G317	11/13/2023	12:55	DTW Only								N/A		23110002-073A
G401	11/21/2023	9:24	12.9	55.2	5.89	2,830.7	1.13	28.02	14.7	13.63	23110002-074A		
G402	11/21/2023	8:37	15.0	59.0	6.66	1,578.9	3.40	21.11	157.7	11.71	23110002-075A		
G403	11/20/2023	11:41	15.1	59.2	6.90	684.6	1.22	4.18	112.4	8.27	23110002-076A		
G404	11/21/2023	10:07	13.7	56.7	6.67	2,027.5	2.09	8.10	84.7	6.48	23110002-077A		
G405	11/21/2023	10:32	15.3	59.5	6.95	1,837.0	3.08	5.50	75.5	7.73	23110002-078A		
G406	11/20/2023	13:20	15.7	60.3	6.59	1,206.3	1.81	3.02	127.4	13.83	23110002-079A		
G407	11/20/2023	12:18	14.2	57.6	6.57	2,982.8	1.56	10.49	124.2	8.31	23110002-080A		
G410	11/20/2023	12:50	15.3	59.5	6.77	1,211.1	1.18	5.06	28.2	10.68	23110002-081A		
G411	11/20/2023	13:50	14.6	58.3	7.28	896.2	1.53	5.72	115.5	11.20	23110002-082A		
G1001	11/14/2023	11:36	16.7	62.1	6.97	1,220.2	1.59	10.35	0.3	6.49	23110002-083A		
G1003	11/13/2023	10:20	DTW Only								N/A		23110002-084A
L202	11/16/2023	13:38	20.9	69.6	11.57	15,796.2	6.41	15.47	-92.7	22.00	23110002-085A		
MW03D	11/13/2023	9:57	DTW Only								32.01		23110002-086A
MW12D	11/13/2023	10:41	DTW Only								15.64		23110002-087A
MW20S	11/13/2023	9:54	DTW Only								11.96		23110002-088A
NE Riser			Unable to collect DTW Data									23110002-089A	
R104	11/14/2023	14:40	17.1	62.8	7.41	765.9	3.62	3.74	-21.7	12.91	23110002-090A		
R201	11/14/2023	10:37	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6	11.73	23110002-091A		
R205	11/20/2023	14:39	14.6	58.3	6.77	1,393.0	0.98	24.11	126.8	11.48	23110002-092A		
SG-02	11/13/2023	14:03	DTW Only								7.36		23110002-093A
SG-03	11/13/2023	13:53	DTW Only								9.71		23110002-094A

Site Samping Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary

Coffeen- 4Q 2023

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID	
SG-04	11/13/2023	14:21	DTW Only								6.32	23110002-095A
T127	11/15/2023	10:52	18.0	64.4	7.10	784.4	1.44	53.59	92.1	15.95	23110002-096A	
T128	11/15/2023	10:11	16.9	62.4	6.99	725.6	1.48	3.18	96.7	15.50	23110002-097A	
X201	11/20/2023	14:08	12.7	54.9	6.63	22,523.7	9.63	5.23	140.7	34.00	23110002-098A	
XPW01	11/17/2023	9:39	18.4	65.1	7.14	1,314.9	1.20	24.81	-83.1	6.28	23110002-099A	
XPW02	11/17/2023	9:02	19.5	67.1	7.60	790.2	1.32	3.86	-106.8	11.13	23110002-100A	
XSG-01	11/13/2023	13:16	DTW Only								10.38	23110002-101A
Field Blank	11/21/2023	10:36									23110002-102A	
G102 Duplicate	11/14/2023	15:37	16.4	61.5	7.30	881.0	0.78	26.48	17.9	12.84	23110002-103A	
G200 Duplicate	11/14/2023	10:01	16.0	60.8	7.16	793.4	0.98	101.80	96.6	11.88	23110002-104A	
G273 Duplicate	11/17/2023	10:37	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3	12.71	23110002-105A	
G301 Duplicate	11/20/2023	10:42	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7	8.25	23110002-106A	
R201 Duplicate	11/14/2023	10:37	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6	11.73	23110002-107A	
G211	12/6/2023	11:16	15.2	59.4	6.99	1,018.6	0.98	9.31	112.7	15.94	23110002-108A	

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G101	11/14/2023	16:02	13.95	15.1	59.2	7.16	894.1	3.12	35.43	58.8
G101	11/14/2023	16:05	13.95	15.1	59.2	7.16	825.0	2.89	42.94	59.4
G101	11/14/2023	16:08	13.95	15.1	59.2	7.15	1,177.0	2.85	22.09	59.2
G101	11/14/2023	16:11	13.95	15.2	59.4	7.16	1,179.4	2.81	21.87	56.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G102	11/14/2023	15:31	12.84	16.4	61.5	7.31	887.2	1.11	34.34	24.9
G102	11/14/2023	15:34	12.84	16.4	61.5	7.30	883.5	0.90	29.22	20.2
G102	11/14/2023	15:37	12.84	16.4	61.5	7.30	881.0	0.78	26.48	17.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G103	11/14/2023	15:04	16.00	16.5	61.7	7.16	842.2	1.85	20.62	12.0
G103	11/14/2023	15:07	16.00	16.4	61.5	7.14	845.9	1.61	24.46	14.0
G103	11/14/2023	15:10	16.00	16.4	61.5	7.13	849.8	1.51	14.63	16.5
G103	11/14/2023	15:13	16.00	16.4	61.5	7.12	851.5	1.46	15.48	17.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G105	11/14/2023	14:16	13.46	16.6	61.9	7.16	808.5	2.30	23.63	-107.3
G105	11/14/2023	14:19	13.46	16.6	61.9	7.17	805.8	1.22	10.65	-126.7
G105	11/14/2023	14:22	13.46	16.6	61.9	7.16	803.5	0.92	8.76	-128.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G106	11/14/2023	13:48	14.21	17.4	63.3	7.05	882.8	3.25	15.41	43.8
G106	11/14/2023	13:51	14.21	17.4	63.3	7.04	879.4	3.41	13.53	45.6
G106	11/14/2023	13:54	14.21	17.3	63.1	7.02	877.9	3.58	8.61	48.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G107	11/14/2023	13:24	14.40	17.0	62.6	7.41	752.3	5.34	7.64	28.4
G107	11/14/2023	13:27	14.40	17.3	63.1	7.22	755.6	2.81	9.31	18.2
G107	11/14/2023	13:30	14.40	17.4	63.3	7.20	753.6	3.22	11.22	21.3
G107	11/14/2023	13:33	14.40	17.4	63.3	7.20	753.1	3.24	12.34	25.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G108	11/14/2023	13:09	14.96	16.9	62.4	7.29	744.2	4.72	3.45	-53.6
G108	11/14/2023	13:12	14.96	17.3	63.1	7.22	747.6	3.28	3.61	-77.3
G108	11/14/2023	13:15	14.96	17.8	64.0	7.20	751.7	2.63	4.03	-70.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G109	11/14/2023	12:53	15.09	16.6	61.9	7.06	940.6	2.55	11.44	55.2
G109	11/14/2023	12:56	15.09	16.7	62.1	7.03	939.6	1.53	11.84	51.3
G109	11/14/2023	12:59	15.09	16.7	62.1	7.03	938.7	1.28	14.68	50.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G110	11/14/2023	12:26	15.43	17.1	62.8	6.97	898.4	1.78	20.13	2.3
G110	11/14/2023	12:29	15.43	17.1	62.8	6.95	904.9	1.35	17.91	-3.4
G110	11/14/2023	12:32	15.43	17.1	62.8	6.93	906.1	1.16	15.55	-3.0
G110	11/14/2023	12:35	15.43	17.1	62.8	6.93	906.0	1.11	16.01	0.0
G110	11/14/2023	12:38	15.43	17.1	62.8	6.93	907.6	1.07	15.26	1.1
G110	11/14/2023	12:41	15.43	17.3	63.1	6.94	908.2	0.98	15.24	1.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G111	11/14/2023	11:53	16.09	17.3	63.1	7.23	857.1	2.61	13.77	6.6
G111	11/14/2023	11:56	16.09	17.4	63.3	7.16	821.3	1.56	9.03	4.3
G111	11/14/2023	11:59	16.09	17.4	63.3	7.14	817.6	1.15	8.45	9.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G119	11/15/2023	9:46	16.25	16.6	61.9	7.30	700.6	4.25	11.84	111.6
G119	11/15/2023	9:49	16.25	16.6	61.9	7.22	702.6	3.50	8.82	114.5
G119	11/15/2023	9:52	16.25	16.6	61.9	7.20	703.4	2.93	6.76	114.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G120	11/15/2023	9:31	17.08	16.3	61.3	7.16	873.7	5.96	8.78	115.7
G120	11/15/2023	9:34	17.08	16.5	61.7	7.04	878.3	4.18	6.70	121.1
G120	11/15/2023	9:37	17.08	16.6	61.9	7.02	875.6	4.11	8.07	121.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G121	11/15/2023	9:17	18.96	16.2	61.2	6.97	948.6	3.87	14.43	122.0
G121	11/15/2023	9:20	18.96	16.4	61.5	6.95	949.6	3.41	10.42	122.5
G121	11/15/2023	9:23	18.96	16.4	61.5	6.94	946.8	3.52	10.14	122.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G122	11/15/2023	8:57	20.40	15.3	59.5	6.89	1,209.1	5.07	7.56	123.9
G122	11/15/2023	9:00	20.40	15.4	59.7	6.81	1,187.0	3.94	14.24	127.1
G122	11/15/2023	9:03	20.40	15.6	60.1	6.79	1,181.7	4.55	12.66	128.3
G122	11/15/2023	9:06	20.40	15.7	60.3	6.79	1,178.9	4.50	12.43	128.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G123	11/15/2023	8:41	19.94	15.2	59.4	6.70	945.6	2.29	6.93	132.6
G123	11/15/2023	8:44	19.94	15.2	59.4	6.81	946.0	1.48	7.46	124.2
G123	11/15/2023	8:47	19.94	15.3	59.5	6.87	941.5	1.21	7.42	118.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G124	12/7/2023	9:47	20.21	14.8	58.6	7.05	1,125.0	5.81	15.71	90.6
G124	12/7/2023	9:50	20.21	15.1	59.2	6.96	1,110.1	4.05	21.33	92.6
G124	12/7/2023	9:53	20.21	15.2	59.3	6.93	1,108.6	3.90	19.58	93.9
G124	12/7/2023	9:56	20.21	15.1	59.2	6.91	1,110.4	4.27	17.88	95.3
G124	12/7/2023	9:59	20.21	15.2	59.3	6.89	1,112.2	4.46	13.24	96.5
G124	12/7/2023	10:02	20.21	14.8	58.7	6.89	1,116.4	4.37	10.55	97.4
G124	12/7/2023	10:05	20.21	14.9	58.9	6.88	1,116.1	4.14	9.50	97.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G125	12/7/2023	10:19	20.32	15.4	59.8	7.23	1,134.2	6.09	8.35	98.9
G125	12/7/2023	10:22	20.32	15.4	59.7	7.11	1,145.5	3.94	10.08	99.9
G125	12/7/2023	10:25	20.32	15.6	60.0	7.07	1,147.4	3.88	9.78	100.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G126	11/15/2023	11:05	11.91	17.2	63.0	7.23	889.2	3.74	9.30	101.7
G126	11/15/2023	11:08	11.91	17.2	63.0	7.14	891.4	1.67	4.98	90.5
G126	11/15/2023	11:11	11.91	17.3	63.1	7.12	887.2	1.38	5.81	87.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G151	11/15/2023	11:31	12.97	17.4	63.3	7.23	912.4	3.29	22.57	102.7
G151	11/15/2023	11:34	12.97	17.5	63.5	7.22	908.2	3.10	14.82	102.4
G151	11/15/2023	11:37	12.97	17.5	63.5	7.22	905.4	2.99	12.16	102.5
G151	11/15/2023	11:40	12.97	17.5	63.5	7.23	906.2	3.05	9.81	102.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G152	11/20/2023	8:15	13.03	14.5	58.1	6.41	1,123.3	3.76	161.73	135.5
G152	11/20/2023	8:18	13.03	14.8	58.6	6.59	1,020.5	3.09	109.10	113.0
G152	11/20/2023	8:21	13.03	15.1	59.2	6.70	934.0	2.56	69.58	104.0
G152	11/20/2023	8:24	13.03	15.6	60.1	6.77	874.7	2.28	54.94	97.6
G152	11/20/2023	8:27	13.03	15.4	59.7	6.83	854.4	2.08	49.05	94.6
G152	11/20/2023	8:30	13.03	16.0	60.8	6.85	845.9	2.01	50.74	88.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G153	11/15/2023	13:32	14.90	17.2	63.0	6.81	4,156.1	2.66	23.13	-78.0
G153	11/15/2023	13:35	14.90	17.2	63.0	6.79	4,030.0	1.66	12.56	-73.5
G153	11/15/2023	13:38	14.90	17.2	63.0	6.80	3,970.3	1.58	14.37	-80.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G154	11/15/2023	12:39	15.76	17.1	62.8	7.37	661.3	1.68	35.58	103.9
G154	11/15/2023	12:42	15.76	17.0	62.6	7.36	660.9	1.50	26.04	103.0
G154	11/15/2023	12:45	15.76	17.0	62.6	7.36	660.7	1.44	21.12	102.3
G154	11/15/2023	12:48	15.76	17.0	62.6	7.36	660.4	1.44	14.64	101.5
G154	11/15/2023	12:51	15.76	17.0	62.6	7.36	660.2	1.41	15.28	101.0
G154	11/15/2023	12:54	15.76	17.0	62.6	7.36	660.6	1.37	10.96	100.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G155	11/15/2023	12:04	13.92	18.1	64.6	7.22	923.4	3.49	63.66	100.1
G155	11/15/2023	12:07	13.92	18.1	64.6	7.23	919.1	3.55	55.28	100.3
G155	11/15/2023	12:10	13.92	18.1	64.6	7.23	918.1	3.39	40.61	100.5
G155	11/15/2023	12:13	13.92	18.1	64.6	7.22	918.6	3.05	31.70	100.6
G155	11/15/2023	12:16	13.92	18.1	64.6	7.23	917.0	2.80	32.49	100.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G200	11/14/2023	9:55	11.88	15.7	60.3	7.16	792.8	0.98	105.29	98.4
G200	11/14/2023	9:58	11.88	15.7	60.3	7.16	792.8	1.00	103.48	97.2
G200	11/14/2023	10:01	11.88	16.0	60.8	7.16	793.4	0.98	101.80	96.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G206	11/15/2023	14:25	16.16	17.4	63.3	7.44	811.3	4.80	9.67	-165.3
G206	11/15/2023	14:28	16.16	17.4	63.3	7.46	802.7	1.94	5.52	-228.7
G206	11/15/2023	14:31	16.16	17.6	63.7	7.46	801.2	1.21	5.73	-255.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G206D	11/17/2023	8:36	30.40	16.0	60.8	7.33	991.1	7.35	5.86	95.1
G206D	11/17/2023	8:39	30.40	15.1	59.2	7.09	999.7	2.78	7.65	-14.3
G206D	11/17/2023	8:42	30.40	15.0	59.0	7.14	996.3	1.85	8.10	-53.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G207	11/14/2023	8:43	16.67	15.6	60.1	6.17	633.0	5.58	9.64	154.7
G207	11/14/2023	8:46	16.67	16.0	60.8	6.58	630.8	4.49	9.19	137.8
G207	11/14/2023	8:49	16.67	16.4	61.5	6.73	632.0	2.35	8.49	130.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G208	11/17/2023	8:15	16.66	16.3	61.3	6.48	533.6	5.11	14.31	164.5
G208	11/17/2023	8:18	16.66	16.2	61.2	6.90	530.0	3.52	14.70	146.3
G208	11/17/2023	8:21	16.66	16.2	61.2	7.04	525.6	3.28	9.42	138.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G209	11/16/2023	14:33	16.24	16.3	61.3	7.04	1,216.7	2.93	13.02	61.6
G209	11/16/2023	14:36	16.24	16.4	61.5	7.01	1,213.8	1.74	6.90	1.7
G209	11/16/2023	14:39	16.24	16.3	61.3	7.00	1,212.9	1.52	4.71	-22.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G210	11/16/2023	14:12	15.82	16.4	61.5	7.32	851.3	1.97	23.81	93.4
G210	11/16/2023	14:15	15.82	16.3	61.3	7.30	849.9	1.43	19.50	91.3
G210	11/16/2023	14:18	15.82	16.2	61.2	7.29	848.3	1.16	13.88	89.4
G210	11/16/2023	14:21	15.82	16.3	61.3	7.29	848.2	1.05	11.03	87.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G211	11/16/2023	13:38	15.61	16.9	62.4	7.26	788.1	1.28	35.54	25.4
G211	11/16/2023	13:41	15.61	16.8	62.2	7.25	787.3	1.09	28.15	32.4
G211	11/16/2023	13:44	15.61	16.8	62.2	7.25	786.5	0.98	22.72	37.2
G211	11/16/2023	13:47	15.61	16.8	62.2	7.26	786.0	0.89	20.65	40.6
G211	11/16/2023	13:50	15.61	16.9	62.4	7.26	785.1	0.87	17.85	43.1
G211	11/16/2023	13:53	15.61	17.2	63.0	7.26	786.9	0.86	18.68	43.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G211	12/6/2023	10:58	15.94	15.6	60.0	6.91	1,017.6	1.18	25.63	121.2
G211	12/6/2023	11:01	15.94	15.6	60.0	6.93	1,017.7	1.14	20.01	119.0
G211	12/6/2023	11:04	15.94	15.3	59.6	6.95	1,019.1	1.12	17.44	117.3
G211	12/6/2023	11:07	15.94	15.2	59.4	6.96	1,016.9	1.09	15.56	115.9
G211	12/6/2023	11:10	15.94	15.2	59.4	6.97	1,016.0	1.06	12.80	114.7
G211	12/6/2023	11:13	15.94	15.3	59.5	6.98	1,016.0	1.03	11.29	113.7
G211	12/6/2023	11:16	15.94	15.2	59.4	6.99	1,018.6	0.98	9.31	112.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G212	11/16/2023	13:06	16.92	17.2	63.0	7.38	675.5	6.06	7.01	101.4
G212	11/16/2023	13:09	16.92	17.0	62.6	7.19	680.5	3.10	7.21	103.3
G212	11/16/2023	13:12	16.92	16.8	62.2	7.15	680.4	2.36	6.74	102.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G213	11/16/2023	12:36	17.41	16.7	62.1	7.09	658.0	1.37	19.33	91.5
G213	11/16/2023	12:39	17.41	16.7	62.1	7.08	659.3	1.10	19.30	89.2
G213	11/16/2023	12:42	17.41	16.7	62.1	7.09	659.5	0.98	63.05	86.8
G213	11/16/2023	12:45	17.41	16.6	61.9	7.09	660.5	0.90	10.10	85.1
G213	11/16/2023	12:48	17.41	16.5	61.7	7.09	661.7	0.84	6.19	83.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G214	11/16/2023	12:12	19.35	16.8	62.2	7.18	973.9	3.86	23.10	84.2
G214	11/16/2023	12:15	19.35	16.8	62.2	7.12	934.5	2.86	14.03	83.3
G214	11/16/2023	12:18	19.35	16.8	62.2	7.12	923.5	2.38	8.33	82.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G215	11/16/2023	11:43	19.03	17.1	62.8	6.95	1,768.5	1.93	39.55	-7.7
G215	11/16/2023	11:46	19.03	17.2	63.0	6.94	1,771.1	1.71	25.21	-9.8
G215	11/16/2023	11:49	19.03	17.2	63.0	6.94	1,769.8	1.60	25.70	-11.4
G215	11/16/2023	11:52	19.03	17.3	63.1	6.94	1,767.7	1.53	26.69	-11.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G216	11/16/2023	11:11	18.21	16.4	61.5	6.94	2,136.7	3.19	35.55	-63.6
G216	11/16/2023	11:14	18.21	16.3	61.3	6.92	2,132.7	2.99	19.59	-57.8
G216	11/16/2023	11:17	18.21	16.3	61.3	6.92	2,126.8	2.74	13.54	-55.7
G216	11/16/2023	11:20	18.21	16.4	61.5	6.92	2,125.6	2.95	13.72	-53.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G217	11/16/2023	10:33	19.68	16.1	61.0	6.89	1,476.7	1.54	25.77	31.9
G217	11/16/2023	10:34	19.68	16.1	61.0	6.89	1,477.3	1.23	22.81	27.8
G217	11/16/2023	10:37	19.68	16.1	61.0	6.88	1,478.5	0.98	17.20	22.4
G217	11/16/2023	10:40	19.68	16.1	61.0	6.88	1,478.6	0.84	14.66	17.6
G217	11/16/2023	10:43	19.68	16.1	61.0	6.88	1,478.6	0.75	11.29	15.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G218	11/16/2023	10:04	18.67	15.8	60.4	6.79	1,530.9	0.80	26.69	18.2
G218	11/16/2023	10:07	18.67	15.8	60.4	6.81	1,533.0	0.72	24.87	7.7
G218	11/16/2023	10:10	18.67	15.8	60.4	6.83	1,532.5	0.66	21.94	0.5
G218	11/16/2023	10:13	18.67	15.8	60.4	6.84	1,531.8	0.63	20.47	-4.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G270	11/17/2023	9:04	10.90	15.1	59.2	7.22	693.3	4.44	18.20	98.1
G270	11/17/2023	9:07	10.90	15.1	59.2	7.16	693.4	2.80	12.65	98.5
G270	11/17/2023	9:10	10.90	15.1	59.2	7.13	691.0	2.22	10.81	97.9
G270	11/17/2023	9:13	10.90	15.2	59.4	7.12	688.8	1.91	9.98	97.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G271	11/17/2023	9:30	13.00	16.2	61.2	7.35	1,002.7	5.87	6.77	109.2
G271	11/17/2023	9:33	13.00	16.3	61.3	7.32	858.1	5.48	7.98	109.9
G271	11/17/2023	9:36	13.00	16.4	61.5	7.28	854.3	5.15	7.98	111.5
G271	11/17/2023	9:39	13.00	16.3	61.3	7.23	881.3	4.07	8.11	112.8
G271	11/17/2023	9:42	13.00	16.3	61.3	7.18	919.5	2.89	7.14	113.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G272	11/17/2023	10:04	12.01	15.9	60.6	7.20	1,373.9	4.45	35.97	120.9
G272	11/17/2023	10:07	12.01	15.4	59.7	7.16	1,381.9	3.70	32.60	122.0
G272	11/17/2023	10:10	12.01	15.0	59.0	7.16	1,354.0	3.43	25.94	121.8
G272	11/17/2023	10:13	12.01	14.8	58.6	7.17	1,319.0	3.44	17.96	121.2
G272	11/17/2023	10:16	12.01	14.8	58.6	7.17	1,286.9	3.46	12.25	120.8
G272	11/17/2023	10:19	12.01	14.8	58.6	7.18	1,270.8	3.42	8.75	120.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G273	11/17/2023	10:31	12.71	16.0	60.8	7.27	1,433.5	6.07	10.87	121.4
G273	11/17/2023	10:34	12.71	16.3	61.3	7.08	1,359.1	2.59	11.56	126.0
G273	11/17/2023	10:37	12.71	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G274	11/17/2023	10:54	15.77	16.1	61.0	7.23	970.0	3.68	14.70	121.5
G274	11/17/2023	10:57	15.77	15.6	60.1	7.15	971.2	2.36	10.50	124.6
G274	11/17/2023	11:00	15.77	15.6	60.1	7.08	1,086.9	1.68	8.07	126.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G275	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G275D	12/7/2023	9:04	39.56	13.3	56.0	6.70	1,807.8	3.13	6.19	137.6
G275D	12/7/2023	9:07	39.56	12.9	55.3	6.80	1,817.1	1.95	11.35	116.2
G275D	12/7/2023	9:10	39.56	12.9	55.3	6.89	1,821.3	1.47	16.55	83.5
G275D	12/7/2023	9:13	39.56	12.9	55.2	6.96	1,823.2	1.23	16.93	42.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G276	11/17/2023	11:26	28.59	15.2	59.4	6.95	1,265.1	5.76	8.51	134.4
G276	11/17/2023	11:29	28.59	15.2	59.4	6.93	1,262.9	4.96	12.82	135.1
G276	11/17/2023	11:32	28.59	15.1	59.2	6.93	1,261.5	4.64	14.56	134.5
G276	11/17/2023	11:34	28.59	15.0	59.0	6.93	1,259.0	4.33	13.17	134.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G277	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G278	11/20/2023	9:25	24.23	15.8	60.4	6.77	4,640.7	2.17	19.80	125.2
G278	11/20/2023	9:28	24.23	16.1	61.0	6.77	4,539.1	1.55	11.60	126.7
G278	11/20/2023	9:31	24.23	16.2	61.2	6.78	4,574.2	1.28	9.80	126.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G279	11/17/2023	11:57	23.39	16.5	61.7	6.80	6,160.9	4.08	9.12	138.9
G279	11/17/2023	12:00	23.39	16.5	61.7	6.75	5,946.7	1.91	9.44	142.7
G279	11/17/2023	12:03	23.39	16.8	62.2	6.76	5,637.0	1.41	7.29	140.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G280	11/20/2023	9:44	8.91	14.9	58.8	7.64	909.6	6.51	6.49	98.0
G280	11/20/2023	9:47	8.91	14.7	58.5	7.46	857.1	2.93	7.72	104.3
G280	11/20/2023	9:50	8.91	14.7	58.5	7.39	849.2	1.79	7.89	106.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G281	11/20/2023	8:50	8.59	15.8	60.4	6.96	1,260.9	3.36	13.13	103.7
G281	11/20/2023	8:53	8.59	16.0	60.8	6.90	1,255.0	1.81	14.90	109.9
G281	11/20/2023	8:56	8.59	16.1	61.0	6.90	1,254.0	1.54	9.45	111.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G283	11/20/2023	10:19	7.22	12.9	55.2	7.10	1,187.6	3.06	52.58	126.7
G283	11/20/2023	10:22	7.22	12.7	54.9	7.07	1,187.5	2.50	39.82	125.6
G283	11/20/2023	10:25	7.22	12.6	54.7	7.06	1,188.3	2.19	36.24	122.0
G283	11/20/2023	10:28	7.22	12.6	54.7	7.05	1,187.5	1.96	29.43	114.2
G283	11/20/2023	10:31	7.22	12.7	54.9	7.04	1,187.9	1.81	26.08	102.0
G283	11/20/2023	10:34	7.22	12.6	54.7	7.04	1,188.8	1.72	23.55	88.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G284	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G285	11/20/2023	10:56	9.38	13.2	55.8	6.77	1,937.2	4.75	12.74	127.5
G285	11/20/2023	10:59	9.38	12.8	55.0	6.73	1,949.2	3.39	18.78	123.1
G285	11/20/2023	11:02	9.38	12.0	53.6	6.71	1,949.5	3.14	20.29	117.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G286	11/13/2023	12:46								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G288	11/13/2023	12:49	9.84							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G301	11/20/2023	10:27	8.25	15.4	59.7	6.48	1,173.7	1.90	21.40	-83.1
G301	11/20/2023	10:30	8.25	15.5	59.9	6.46	1,171.9	1.57	13.72	-75.0
G301	11/20/2023	10:33	8.25	15.4	59.7	6.45	1,170.4	1.36	8.94	-67.0
G301	11/20/2023	10:36	8.25	15.4	59.7	6.44	1,170.0	1.18	6.71	-68.1
G301	11/20/2023	10:39	8.25	15.5	59.9	6.43	1,167.9	1.06	5.92	-60.6
G301	11/20/2023	10:42	8.25	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G302	11/20/2023	12:13	12.73	15.4	59.7	6.52	1,394.2	1.16	55.73	-98.3
G302	11/20/2023	12:16	12.73	15.4	59.7	6.50	1,385.1	1.00	31.78	-90.0
G302	11/20/2023	12:19	12.73	15.4	59.7	6.50	1,379.7	0.90	20.98	-84.0
G302	11/20/2023	12:22	12.73	15.4	59.7	6.50	1,377.3	0.84	15.08	-80.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G303	11/21/2023	11:19	8.90	14.1	57.4	6.63	1,943.6	2.53	39.97	-32.3
G303	11/21/2023	11:22	8.90	14.0	57.2	6.64	1,939.3	2.63	42.29	-29.7
G303	11/21/2023	11:25	8.90	14.0	57.2	6.64	1,937.6	2.58	27.57	-28.3
G303	11/21/2023	11:28	8.90	14.0	57.2	6.63	1,945.3	2.52	26.96	-27.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G305	11/17/2023	10:46	9.25	15.1	59.2	6.92	1,781.1	1.00	18.26	14.5
G305	11/17/2023	10:49	9.25	15.1	59.2	6.92	1,781.0	0.87	13.21	13.9
G305	11/17/2023	10:52	9.25	15.1	59.2	6.92	1,781.7	0.79	12.22	12.7
G305	11/17/2023	10:55	9.25	15.1	59.2	6.91	1,780.7	0.73	10.90	12.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G306	11/17/2023	12:20	9.84	15.3	59.5	6.24	825.6	1.82	70.20	58.4
G306	11/17/2023	12:23	9.84	15.3	59.5	6.20	805.5	1.81	40.12	61.4
G306	11/17/2023	12:26	9.84	15.3	59.5	6.18	785.5	1.83	31.14	64.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G307	11/21/2023	9:28	1.33	12.9	55.2	6.85	1,192.6	3.84	29.94	104.1
G307	11/21/2023	9:31	1.33	13.1	55.6	6.85	1,187.5	3.64	26.06	102.8
G307	11/21/2023	9:34	1.33	13.1	55.6	6.86	1,185.6	3.56	23.63	101.7
G307	11/21/2023	9:37	1.33	13.2	55.8	6.85	1,184.2	3.41	22.01	100.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G307D	11/17/2023	11:29	11.72	15.6	60.1	6.97	1,464.6	1.01	38.57	-82.8
G307D	11/17/2023	11:32	11.72	15.5	59.9	6.99	1,465.2	0.88	49.02	-92.7
G307D	11/17/2023	11:35	11.72	15.4	59.7	6.99	1,466.4	0.82	43.76	-97.9
G307D	11/17/2023	11:38	11.72	15.4	59.7	6.99	1,466.9	0.79	53.44	-100.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G308	11/17/2023	10:02	5.82	16.0	60.8	6.91	1,871.6	1.28	12.21	12.5
G308	11/17/2023	10:05	5.82	16.0	60.8	6.90	1,872.6	1.03	11.00	8.2
G308	11/17/2023	10:08	5.82	16.0	60.8	6.89	1,872.5	0.90	9.36	6.0
G308	11/17/2023	10:11	5.82	16.0	60.8	6.89	1,872.4	0.81	7.41	5.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G309	11/13/2023	10:51	8.32							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G310	11/20/2023	9:40	10.63	15.7	60.3	6.80	1,390.0	1.44	6.49	96.6
G310	11/20/2023	9:43	10.63	15.7	60.3	6.81	1,389.7	1.27	5.29	92.5
G310	11/20/2023	9:46	10.63	15.7	60.3	6.83	1,388.5	1.15	3.80	88.9
G310	11/20/2023	9:49	10.63	15.7	60.3	6.83	1,388.8	1.06	2.93	85.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G312	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G313	11/20/2023	13:55	3.13	15.8	60.4	6.68	1,728.8	1.27	13.65	1.3
G313	11/20/2023	13:58	3.13	15.8	60.4	6.67	1,729.3	1.06	10.07	3.2
G313	11/20/2023	14:01	3.13	15.9	60.6	6.67	1,730.6	0.94	8.66	4.9
G313	11/20/2023	14:04	3.13	15.9	60.6	6.67	1,730.7	0.86	6.44	6.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G314	11/20/2023	15:18	5.88	15.3	59.5	6.35	3,331.3	1.02	11.13	-38.8
G314	11/20/2023	15:21	5.88	15.1	59.2	6.45	3,272.8	1.27	9.89	-36.2
G314	11/20/2023	15:24	5.88	15.1	59.2	6.51	3,239.1	1.67	7.19	-33.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G314D	11/20/2023	14:40	8.05	14.5	58.1	6.73	2,661.3	1.04	18.63	-49.0
G314D	11/20/2023	14:43	8.05	14.5	58.1	6.73	2,660.3	0.92	15.74	-50.6
G314D	11/20/2023	14:46	8.05	14.4	57.9	6.73	2,661.2	0.84	17.52	-52.2
G314D	11/20/2023	14:49	8.05	14.4	57.9	6.73	2,661.2	0.79	15.71	-53.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G315	11/21/2023	10:28	2.93	14.0	57.2	6.55	1,378.5	1.96	5.76	105.0
G315	11/21/2023	10:31	2.93	14.0	57.2	6.54	1,377.7	1.72	5.99	103.5
G315	11/21/2023	10:34	2.93	14.0	57.2	6.54	1,377.6	1.54	4.64	102.0
G315	11/21/2023	10:37	2.93	14.0	57.2	6.54	1,376.9	1.43	4.27	100.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G316	11/20/2023	13:12	12.48	15.0	59.0	6.78	1,862.6	1.41	3.10	-113.4
G316	11/20/2023	13:15	12.48	15.0	59.0	6.77	1,875.4	1.24	1.81	-115.3
G316	11/20/2023	13:18	12.48	15.0	59.0	6.76	1,888.0	1.10	1.54	-116.0
G316	11/20/2023	13:21	12.48	15.0	59.0	6.76	1,893.4	1.00	1.41	-117.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G317	11/13/2023	12:55								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G401	11/21/2023	9:15	13.63	13.4	56.1	5.88	2,830.8	1.50	35.57	13.7
G401	11/21/2023	9:18	13.63	13.4	56.1	5.88	2,821.4	1.30	26.18	14.4
G401	11/21/2023	9:21	13.63	13.2	55.8	5.89	2,829.6	1.20	28.47	14.5
G401	11/21/2023	9:24	13.63	12.9	55.2	5.89	2,830.7	1.13	28.02	14.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G402	11/21/2023	8:28	11.71	15.1	59.2	6.31	1,535.2	6.03	19.81	183.5
G402	11/21/2023	8:31	11.71	15.0	59.0	6.52	1,578.9	3.36	21.44	168.2
G402	11/21/2023	8:34	11.71	15.0	59.0	6.60	1,580.3	3.01	23.12	161.8
G402	11/21/2023	8:37	11.71	15.0	59.0	6.66	1,578.9	3.40	21.11	157.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G403	11/20/2023	11:35	8.27	15.0	59.0	7.04	692.6	2.28	12.76	111.7
G403	11/20/2023	11:38	8.27	15.1	59.2	6.94	687.0	1.53	8.74	112.6
G403	11/20/2023	11:41	8.27	15.1	59.2	6.90	684.6	1.22	4.18	112.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G404	11/21/2023	9:58	6.48	14.6	58.3	6.69	2,149.5	3.47	31.63	63.9
G404	11/21/2023	10:01	6.48	14.2	57.6	6.70	2,130.3	2.52	20.63	72.0
G404	11/21/2023	10:04	6.48	14.0	57.2	6.68	2,078.6	2.19	11.74	78.9
G404	11/21/2023	10:07	6.48	13.7	56.7	6.67	2,027.5	2.09	8.10	84.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G405	11/21/2023	10:26	7.73	14.6	58.3	7.17	1,718.3	5.79	9.78	88.3
G405	11/21/2023	10:29	7.73	15.0	59.0	7.01	1,747.4	3.87	6.07	85.5
G405	11/21/2023	10:32	7.73	15.3	59.5	6.95	1,837.0	3.08	5.50	75.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G406	11/20/2023	13:14	13.83	15.7	60.3	7.01	1,218.6	6.86	6.82	111.2
G406	11/20/2023	13:17	13.83	15.5	59.9	6.66	1,215.0	3.17	6.14	124.9
G406	11/20/2023	13:20	13.83	15.7	60.3	6.59	1,206.3	1.81	3.02	127.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G407	11/20/2023	12:09	8.31	14.6	58.3	6.54	2,910.1	6.20	13.64	148.5
G407	11/20/2023	12:12	8.31	14.5	58.1	6.50	3,125.0	2.81	16.09	140.5
G407	11/20/2023	12:15	8.31	14.3	57.7	6.55	3,057.3	1.86	13.43	129.0
G407	11/20/2023	12:18	8.31	14.2	57.6	6.57	2,982.8	1.56	10.49	124.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G410	11/20/2023	12:44	10.68	15.3	59.5	6.88	1,318.9	1.97	20.12	57.0
G410	11/20/2023	12:47	10.68	15.4	59.7	6.81	1,230.7	1.42	8.73	33.9
G410	11/20/2023	12:50	10.68	15.3	59.5	6.77	1,211.1	1.18	5.06	28.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G411	11/20/2023	13:44	11.20	14.9	58.8	7.35	956.7	3.21	15.61	114.9
G411	11/20/2023	13:47	11.20	14.7	58.5	7.30	883.8	2.00	9.58	115.5
G411	11/20/2023	13:50	11.20	14.6	58.3	7.28	896.2	1.53	5.72	115.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G1001	11/14/2023	11:21	6.49	17.8	64.0	6.99	1,526.9	3.49	39.67	-46.8
G1001	11/14/2023	11:24	6.49	17.7	63.9	7.03	1,457.7	3.77	30.87	-43.4
G1001	11/14/2023	11:27	6.49	17.3	63.1	7.07	1,371.0	3.80	15.82	-39.2
G1001	11/14/2023	11:30	6.49	16.9	62.4	7.04	1,298.5	2.88	15.66	-20.6
G1001	11/14/2023	11:33	6.49	16.7	62.1	7.00	1,259.0	2.02	11.36	-7.1
G1001	11/14/2023	11:36	6.49	16.7	62.1	6.97	1,220.2	1.59	10.35	0.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G1003	11/13/2023	10:20								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
L202	11/16/2023	13:38	22.00	20.9	69.6	11.57	15,796.2	6.41	15.47	-92.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW03D	11/13/2023	9:57	32.01							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW12D	11/13/2023	10:41	15.64							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW20S	11/13/2023	9:54	11.96							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
NW Riser	Unable to collect elevation (no tra									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R104	11/14/2023	14:34	12.91	16.8	62.2	7.43	785.3	2.90	14.76	-38.5
R104	11/14/2023	14:37	12.91	17.0	62.6	7.39	770.7	3.21	6.63	-29.9
R104	11/14/2023	14:40	12.91	17.1	62.8	7.41	765.9	3.62	3.74	-21.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R201	11/14/2023	10:28	11.73	15.7	60.3	6.97	1,172.0	1.24	23.44	-94.1
R201	11/14/2023	10:31	11.73	15.7	60.3	6.99	1,158.8	0.99	15.82	-95.4
R201	11/14/2023	10:34	11.73	15.8	60.4	6.99	1,160.6	0.84	13.17	-96.6
R201	11/14/2023	10:37	11.73	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R205	11/20/2023	14:24	11.48	14.5	58.1	6.76	1,385.0	1.55	54.07	131.7
R205	11/20/2023	14:27	11.48	14.5	58.1	6.76	1,387.4	1.28	37.24	130.7
R205	11/20/2023	14:30	11.48	14.5	58.1	6.76	1,391.7	1.18	30.99	129.7
R205	11/20/2023	14:33	11.48	14.4	57.9	6.77	1,393.3	1.05	26.72	128.7
R205	11/20/2023	14:36	11.48	14.6	58.3	6.77	1,391.8	1.00	23.73	127.7
R205	11/20/2023	14:39	11.48	14.6	58.3	6.77	1,393.0	0.98	24.11	126.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-02	11/13/2023	14:03	7.36							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-03	11/13/2023	13:53	9.71							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-04	11/13/2023	14:21	6.32							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T127	11/15/2023	10:31	15.95	17.3	63.1	7.12	788.3	2.68	214.38	98.3
T127	11/15/2023	10:34	15.95	17.6	63.7	7.11	785.6	2.41	168.93	98.5
T127	11/15/2023	10:37	15.95	17.6	63.7	7.10	784.9	2.14	120.74	97.9
T127	11/15/2023	10:40	15.95	17.8	64.0	7.10	784.2	2.08	113.87	97.3
T127	11/15/2023	10:43	15.95	17.9	64.2	7.10	783.8	2.06	97.36	96.5
T127	11/15/2023	10:46	15.95	17.9	64.2	7.10	784.7	1.92	75.93	95.4
T127	11/15/2023	10:49	15.95	18.0	64.4	7.10	785.7	1.66	52.11	93.8
T127	11/15/2023	10:52	15.95	18.0	64.4	7.10	784.4	1.44	53.59	92.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T128	11/15/2023	10:05	15.50	16.7	62.1	7.06	729.9	2.91	3.22	111.5
T128	11/15/2023	10:08	15.50	16.8	62.2	7.00	728.0	1.90	3.31	100.3
T128	11/15/2023	10:11	15.50	16.9	62.4	6.99	725.6	1.48	3.18	96.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
X201	11/20/2023	14:08	34.00	12.7	54.9	6.63	22,523.7	9.63	5.23	140.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW01	11/17/2023	9:30	6.28	18.4	65.1	7.14	1,311.8	1.51	26.25	-76.8
XPW01	11/17/2023	9:33	6.28	18.4	65.1	7.14	1,313.3	1.36	8.59	-71.4
XPW01	11/17/2023	9:36	6.28	18.4	65.1	7.14	1,314.7	1.31	4.14	-73.8
XPW01	11/17/2023	9:39	6.28	18.4	65.1	7.14	1,314.9	1.20	24.81	-83.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW02	11/17/2023	8:53	11.13	19.5	67.1	7.54	783.8	1.70	4.88	-35.8
XPW02	11/17/2023	8:56	11.13	19.5	67.1	7.56	785.5	1.48	5.31	-74.6
XPW02	11/17/2023	8:59	11.13	19.5	67.1	7.58	788.8	1.38	5.47	-94.2
XPW02	11/17/2023	9:02	11.13	19.5	67.1	7.60	790.2	1.32	3.86	-106.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XSG-01	11/13/2023	13:16	10.38							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
Field Blank	11/21/2023	10:36								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G102 Duplicate	11/14/2023	15:31	12.84	16.4	61.5	7.31	887.2	1.11	34.34	24.9
G102 Duplicate	11/14/2023	15:34	12.84	16.4	61.5	7.30	883.5	0.90	29.22	20.2
G102 Duplicate	11/14/2023	15:37	12.84	16.4	61.5	7.30	881.0	0.78	26.48	17.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G200 Duplicate	11/14/2023	9:55	11.88	15.7	60.3	7.16	792.8	0.98	105.29	98.4
G200 Duplicate	11/14/2023	9:58	11.88	15.7	60.3	7.16	792.8	1.00	103.48	97.2
G200 Duplicate	11/14/2023	10:01	11.88	16.0	60.8	7.16	793.4	0.98	101.80	96.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G273 Duplicate	11/17/2023	10:31	12.71	16.0	60.8	7.27	1,433.5	6.07	10.87	121.4
G273 Duplicate	11/17/2023	10:34	12.71	16.3	61.3	7.08	1,359.1	2.59	11.56	126.0
G273 Duplicate	11/17/2023	10:37	12.71	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G301 Duplicate	11/20/2023	10:27	8.25	15.4	59.7	6.48	1,173.7	1.90	21.40	-83.1
G301 Duplicate	11/20/2023	10:30	8.25	15.5	59.9	6.46	1,171.9	1.57	13.72	-75.0
G301 Duplicate	11/20/2023	10:33	8.25	15.4	59.7	6.45	1,170.4	1.36	8.94	-67.0
G301 Duplicate	11/20/2023	10:36	8.25	15.4	59.7	6.44	1,170.0	1.18	6.71	-68.1
G301 Duplicate	11/20/2023	10:39	8.25	15.5	59.9	6.43	1,167.9	1.06	5.92	-60.6
G301 Duplicate	11/20/2023	10:42	8.25	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R201 Duplicate	11/14/2023	10:28	11.73	15.7	60.3	6.97	1,172.0	1.24	23.44	-94.1
R201 Duplicate	11/14/2023	10:31	11.73	15.7	60.3	6.99	1,158.8	0.99	15.82	-95.4
R201 Duplicate	11/14/2023	10:34	11.73	15.8	60.4	6.99	1,160.6	0.84	13.17	-96.6
R201 Duplicate	11/14/2023	10:37	11.73	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6

Site Sampling Event: Coffeen 4Q 2023
 LIMS Workorder: 23110002
 Technician(s): DC, JC, TC, BG

Field Calibration Log(s)
 Coffeen- 4Q 2023

Field Temp SOP 1156 - SM 2550 B
 Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
 Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: 29218
 Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	11/14/23 8:14
7.0 Buffer	wc230616f	7.03	11/14/23 8:19
10.0 Buffer	wc231027d	9.99	11/14/23 8:25
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1415	11/14/23 8:30

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/14/23 8:42	18.1	7.03	1424	
ccv	11/14/23 16:15	19.8	7.05	1476	

Field Meter ID: 29218
 Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	11/15/23 8:13
7.0 Buffer	wc230616f	7.02	11/15/23 8:18
10.0 Buffer	wc231027d	10.01	11/15/23 8:23
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1413	11/15/23 8:28

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/15/23 8:34	17.6	7.04	1416	
ccv	11/15/23 14:48	19.8	7.04	1468	

Field Meter ID: 29218
 Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.02	11/16/23 9:23
7.0 Buffer	wc230616f	7.01	11/16/23 9:28
10.0 Buffer	wc231027d	9.98	11/16/23 9:33
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1429	11/16/23 9:38

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/16/23 9:43	17.6	7.03	1432	
ccv	11/16/23 14:49	19.4	7.03	1444	



Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	11/17/23 7:48
7.0 Buffer	wc230616f	7.01	11/17/23 7:53
10.0 Buffer	wc231027d	10.00	11/17/23 7:58
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1417	11/17/23 8:03

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/17/23 8:08	18	7.02	1434	
ccv	11/17/23 12:33	19	7.03	1451	

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	11/20/23 7:46
7.0 Buffer	wc230616f	7.01	11/20/23 7:51
10.0 Buffer	wc231027d	9.98	11/20/23 7:56
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1414	11/20/23 8:01

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/20/23 8:06	17.6	7.02	1428	
ccv	11/20/23 14:54	18.2	7.04	1467	

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	11/21/23 8:04
7.0 Buffer	wc230616f	7.01	11/21/23 8:09
10.0 Buffer	wc231027d	9.99	11/21/23 8:14
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1421	11/21/23 8:19

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/21/23 8:24	15.3	7.03	1443	
ccv	11/21/23 10:37	17.8	7.03	1455	



Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	12/6/23 10:33
7.0 Buffer	wc230616f	7.00	12/6/23 10:38
10.0 Buffer	wc231027d	9.99	12/6/23 10:43
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1413	12/6/23 10:48

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	12/6/23 10:52	16.4	7.01	1418	
ccv	12/6/23 11:19	17.2	7.03	1435	

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	12/7/23 8:46
7.0 Buffer	wc230616f	7.00	12/7/23 8:51
10.0 Buffer	wc231027d	10.03	12/7/23 8:55
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1422	12/7/23 9:00

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	12/7/23 9:03	14.9	7.02	1429	
ccv	12/7/23 10:28	15.7	7.04	1452	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Temp SOP 1156 - SM 2550 B
 Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
 Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51290
 Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	11/16/23 12:21
7.0 Buffer	WC230616F	7.04	11/16/23 12:24
10.0 Buffer	WC231027D	10.00	11/16/23 12:27
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1412	11/16/23 12:32

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/16/23 12:35	17.4	7.06	1412	
ccv	11/16/23 15:20	20.5	7.08	1455	

Field Meter ID: Pine 51290
 Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	11/17/23 8:41
7.0 Buffer	WC230616F	7.02	11/17/23 8:42
10.0 Buffer	WC231027D	10.01	11/17/23 8:44
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1412	11/17/23 8:44

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/17/23 8:45	17	7.03	1413	
ccv	11/17/23 14:11	21.2	7.05	1463	

Field Meter ID: Pine 51290
 Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.02	11/20/23 9:13
7.0 Buffer	WC230616F	7.05	11/20/23 9:16
10.0 Buffer	WC231027D	1002.00	11/20/23 9:17
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1412	11/20/23 9:17

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/20/23 9:18	12.2	7.06	1413	
ccv	11/20/23 15:31	17.1	6.96	1458	



Site Sampling Event: Coffeen 4Q 2023
 LIMS Workorder: 23110002
 Technician(s): DC, JC, TC, BG

Field Calibration Log(s)
 Coffeen- 4Q 2023

Field Meter ID: Pine 51290

Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	11/21/23 8:32
7.0 Buffer	WC230616F	7.00	11/21/23 8:33
10.0 Buffer	WC231027D	10.00	11/21/23 8:35
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1413	11/21/23 8:30

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/21/23 8:37	12.7	6.98	1413	
CCV	11/21/23 11:31	15.2	6.93	1465	

Field Meter ID:

Technician:

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.			

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS					
CCV					

Field Meter ID:

Technician:

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.			

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS					
CCV					



**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 4, 2023**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 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
G1001	LCU	E003	Antimony, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.0049	0.003
G1001	LCU	E003	Arsenic, total	mg/L	02/15/23 - 11/14/23	3	33	Most recent sample	0.0015	0.00660
G1001	LCU	E003	Barium, total	mg/L	02/15/23 - 11/14/23	3	0	Most recent sample	0.0917	0.140
G1001	LCU	E003	Beryllium, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.001	0.001
G1001	LCU	E003	Boron, total	mg/L	05/12/21 - 11/14/23	4	0	CI around mean	0.395	0.0290
G1001	LCU	E003	Cadmium, total	mg/L	02/15/23 - 11/14/23	3	100	All ND - Last	0.001	0.001
G1001	LCU	E003	Chloride, total	mg/L	05/12/21 - 11/14/23	4	0	CI around mean	0.773	75.0
G1001	LCU	E003	Chromium, total	mg/L	02/15/23 - 11/14/23	3	33	Most recent sample	0.0028	0.0190
G1001	LCU	E003	Cobalt, total	mg/L	05/12/21 - 11/14/23	4	50	CI around geomean	0.000175	0.00590
G1001	LCU	E003	Fluoride, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.32	0.513
G1001	LCU	E003	Lead, total	mg/L	02/15/23 - 11/14/23	3	33	Most recent sample	0.0011	0.0120
G1001	LCU	E003	Lithium, total	mg/L	05/12/21 - 11/14/23	4	25	CI around mean	-0.00339	0.0190
G1001	LCU	E003	Mercury, total	mg/L	02/15/23 - 11/14/23	3	100	All ND - Last	0.0002	0.0002
G1001	LCU	E003	Molybdenum, total	mg/L	02/15/23 - 11/14/23	3	0	Most recent sample	0.0084	0.00450
G1001	LCU	E003	pH (field)	SU	02/15/23 - 11/14/23	3	0	Most recent sample	7.0/7.0	6.6/7.5
G1001	LCU	E003	Radium 226 + Radium 228, total	pCi/L	02/15/23 - 11/14/23	3	0	Most recent sample	1.32	1.89
G1001	LCU	E003	Selenium, total	mg/L	02/15/23 - 11/14/23	3	67	Most recent sample	0.001	0.00480
G1001	LCU	E003	Sulfate, total	mg/L	05/12/21 - 11/14/23	4	0	CI around mean	-195	370
G1001	LCU	E003	Thallium, total	mg/L	02/15/23 - 11/14/23	3	100	All ND - Last	0.002	0.001
G1001	LCU	E003	Total Dissolved Solids	mg/L	02/15/23 - 11/14/23	3	0	Most recent sample	900	840
G401	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.001	0.003
G401	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	52	CB around T-S line	-0.0189	0.00660
G401	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around T-S line	-0.188	0.140
G401	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	81	CI around median	0.001	0.001
G401	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CI around median	3.5	0.0290
G401	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	67	CB around T-S line	-0.00221	0.001
G401	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	11	CI around geomean	2.9	75.0

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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	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	67	CB around T-S line	-0.0432	0.0190
G401	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.0692	0.00590
G401	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	89	CB around T-S line	0.25	0.513
G401	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	65	CB around T-S line	-0.0201	0.0120
G401	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	29	3	CB around T-S line	-0.00496	0.0190
G401	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	81	CI around median	0.0002	0.0002
G401	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	70	CI around median	0.001	0.00450
G401	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	30	0	CI around mean	5.9/6.1	6.6/7.5
G401	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around geomean	0.498	1.89
G401	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	63	CB around T-S line	-0.00195	0.00480
G401	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around T-S line	1,410	370
G401	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.001
G401	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CI around median	2,800	840
G402	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.001	0.003
G402	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	-0.00514	0.00660
G402	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	-0.00186	0.140
G402	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.001	0.001
G402	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CI around mean	5.44	0.0290
G402	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	96	Most recent sample	0.001	0.001
G402	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	21	CI around mean	1.59	75.0
G402	UA	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	44	CB around T-S line	-0.00756	0.0190
G402	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	22	CB around linear reg	-0.00291	0.00590
G402	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	14	CI around median	0.295	0.513
G402	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	31	CB around linear reg	-0.00416	0.0120
G402	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	27	4	CB around linear reg	0.0114	0.0190
G402	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.0002	0.0002
G402	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.00106	0.00450

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COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G402	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	28	0	CI around mean	6.7/6.8	6.6/7.5
G402	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around median	0.547	1.89
G402	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	78	CB around T-S line	0.000433	0.00480
G402	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around T-S line	393	370
G402	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.001
G402	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	1,290	840
G403	UA	E003	Antimony, total	mg/L	11/23/15 - 11/20/23	24	100	All ND - Last	0.001	0.003
G403	UA	E003	Arsenic, total	mg/L	11/23/15 - 11/20/23	27	59	CB around T-S line	0.000144	0.00660
G403	UA	E003	Barium, total	mg/L	11/23/15 - 11/20/23	27	0	CB around T-S line	0.0813	0.140
G403	UA	E003	Beryllium, total	mg/L	11/23/15 - 11/20/23	26	100	All ND - Last	0.001	0.001
G403	UA	E003	Boron, total	mg/L	11/23/15 - 11/20/23	28	18	CI around geomean	0.0159	0.0290
G403	UA	E003	Cadmium, total	mg/L	11/23/15 - 11/20/23	27	100	All ND - Last	0.001	0.001
G403	UA	E003	Chloride, total	mg/L	11/23/15 - 11/20/23	28	0	CB around linear reg	4.27	75.0
G403	UA	E003	Chromium, total	mg/L	11/23/15 - 11/20/23	27	93	CB around T-S line	0.00296	0.0190
G403	UA	E003	Cobalt, total	mg/L	11/23/15 - 11/20/23	27	56	CI around median	0.002	0.00590
G403	UA	E003	Fluoride, total	mg/L	11/23/15 - 11/20/23	28	11	CB around T-S line	0.198	0.513
G403	UA	E003	Lead, total	mg/L	11/23/15 - 11/20/23	26	88	CI around median	0.001	0.0120
G403	UA	E003	Lithium, total	mg/L	11/23/15 - 11/20/23	27	93	CB around T-S line	0.01	0.0190
G403	UA	E003	Mercury, total	mg/L	11/23/15 - 11/20/23	26	100	All ND - Last	0.0002	0.0002
G403	UA	E003	Molybdenum, total	mg/L	11/23/15 - 11/20/23	27	74	CI around median	0.001	0.00450
G403	UA	E003	pH (field)	SU	11/23/15 - 11/20/23	28	0	CI around mean	6.8/7.0	6.6/7.5
G403	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/23/15 - 11/20/23	27	0	CI around mean	0.624	1.89
G403	UA	E003	Selenium, total	mg/L	11/23/15 - 11/20/23	27	96	CI around median	0.001	0.00480
G403	UA	E003	Sulfate, total	mg/L	11/23/15 - 11/20/23	28	0	CB around T-S line	53.8	370
G403	UA	E003	Thallium, total	mg/L	11/23/15 - 11/20/23	24	100	All ND - Last	0.002	0.001
G403	UA	E003	Total Dissolved Solids	mg/L	11/23/15 - 11/20/23	28	0	CB around linear reg	393	840
G404	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	96	CI around median	0.003	0.003

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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
G404	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	86	CI around median	0.001	0.00660
G404	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.0204	0.140
G404	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.001	0.001
G404	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	7.42	0.0290
G404	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	100	All ND - Last	0.001	0.001
G404	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	111	75.0
G404	UA	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	96	CI around median	0.004	0.0190
G404	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	93	CI around median	0.002	0.00590
G404	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	76	CI around median	0.25	0.513
G404	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	96	CI around median	0.001	0.0120
G404	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	27	82	CB around T-S line	0.01	0.0190
G404	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.0002	0.0002
G404	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	100	All ND - Last	0.0015	0.00450
G404	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	28	0	CB around linear reg	6.5/6.8	6.6/7.5
G404	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around mean	0.63	1.89
G404	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	100	All ND - Last	0.001	0.00480
G404	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	478	370
G404	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.001
G404	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	1,320	840
G405	UA	E003	Antimony, total	mg/L	11/21/15 - 11/21/23	24	96	CI around median	0.003	0.003
G405	UA	E003	Arsenic, total	mg/L	11/21/15 - 11/21/23	27	32	CB around T-S line	-0.00261	0.00660
G405	UA	E003	Barium, total	mg/L	11/21/15 - 11/21/23	27	0	CB around linear reg	0.0079	0.140
G405	UA	E003	Beryllium, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.001	0.001
G405	UA	E003	Boron, total	mg/L	11/21/15 - 11/21/23	28	0	CI around mean	9.42	0.0290
G405	UA	E003	Cadmium, total	mg/L	11/21/15 - 11/21/23	27	96	CI around median	0.001	0.001
G405	UA	E003	Chloride, total	mg/L	11/21/15 - 11/21/23	28	0	CI around geomean	9.2	75.0
G405	UA	E003	Chromium, total	mg/L	11/21/15 - 11/21/23	27	89	CI around median	0.004	0.0190

ATTACHMENT C.
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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
G405	UA	E003	Cobalt, total	mg/L	11/21/15 - 11/21/23	27	68	CB around T-S line	0.0011	0.00590
G405	UA	E003	Fluoride, total	mg/L	11/21/15 - 11/21/23	28	10	CI around mean	0.376	0.513
G405	UA	E003	Lead, total	mg/L	11/21/15 - 11/21/23	26	52	CB around T-S line	-0.00114	0.0120
G405	UA	E003	Lithium, total	mg/L	11/21/15 - 11/21/23	27	89	CI around median	0.01	0.0190
G405	UA	E003	Mercury, total	mg/L	11/21/15 - 11/21/23	26	100	All ND - Last	0.0002	0.0002
G405	UA	E003	Molybdenum, total	mg/L	11/21/15 - 11/21/23	27	39	CI around median	0.001	0.00450
G405	UA	E003	pH (field)	SU	11/21/15 - 11/21/23	28	0	CI around mean	6.8/7.0	6.6/7.5
G405	UA	E003	Radium 226 + Radium 228, total	pCi/L	11/21/15 - 11/21/23	27	0	CI around median	0.598	1.89
G405	UA	E003	Selenium, total	mg/L	11/21/15 - 11/21/23	27	89	CI around median	0.001	0.00480
G405	UA	E003	Sulfate, total	mg/L	11/21/15 - 11/21/23	28	0	CB around linear reg	442	370
G405	UA	E003	Thallium, total	mg/L	11/21/15 - 11/21/23	24	100	All ND - Last	0.002	0.001
G405	UA	E003	Total Dissolved Solids	mg/L	11/21/15 - 11/21/23	28	0	CI around mean	1,540	840
G406	UA	E003	Antimony, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.003
G406	UA	E003	Arsenic, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.00660
G406	UA	E003	Barium, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	0.013	0.140
G406	UA	E003	Beryllium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.001
G406	UA	E003	Boron, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	1.4	0.0290
G406	UA	E003	Cadmium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.001
G406	UA	E003	Chloride, total	mg/L	10/14/20 - 11/20/23	13	15	CI around mean	3.13	75.0
G406	UA	E003	Chromium, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.004	0.0190
G406	UA	E003	Cobalt, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.00590
G406	UA	E003	Fluoride, total	mg/L	10/14/20 - 11/20/23	13	15	CI around geomean	0.273	0.513
G406	UA	E003	Lead, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.0120
G406	UA	E003	Lithium, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.02	0.0190
G406	UA	E003	Mercury, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.0002	0.0002
G406	UA	E003	Molybdenum, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.00450
G406	UA	E003	pH (field)	SU	10/14/20 - 11/20/23	13	0	CI around mean	6.5/6.7	6.6/7.5

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 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
G406	UA	E003	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 11/20/23	13	0	CI around mean	0.264	1.89
G406	UA	E003	Selenium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.00480
G406	UA	E003	Sulfate, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	450	370
G406	UA	E003	Thallium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.002	0.001
G406	UA	E003	Total Dissolved Solids	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	1,010	840
G407	UA	E003	Antimony, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.003
G407	UA	E003	Arsenic, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.001	0.00660
G407	UA	E003	Barium, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	0.012	0.140
G407	UA	E003	Beryllium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.001
G407	UA	E003	Boron, total	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	0.0737	0.0290
G407	UA	E003	Cadmium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.001
G407	UA	E003	Chloride, total	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	11.4	75.0
G407	UA	E003	Chromium, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.004	0.0190
G407	UA	E003	Cobalt, total	mg/L	10/14/20 - 11/20/23	13	85	CI around median	0.002	0.00590
G407	UA	E003	Fluoride, total	mg/L	10/14/20 - 11/20/23	13	23	CI around geomean	0.264	0.513
G407	UA	E003	Lead, total	mg/L	10/14/20 - 11/20/23	13	92	CI around median	0.001	0.0120
G407	UA	E003	Lithium, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	0.039	0.0190
G407	UA	E003	Mercury, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.0002	0.0002
G407	UA	E003	Molybdenum, total	mg/L	10/14/20 - 11/20/23	13	15	CI around median	0.0013	0.00450
G407	UA	E003	pH (field)	SU	10/14/20 - 11/20/23	13	0	CI around mean	6.6/6.7	6.6/7.5
G407	UA	E003	Radium 226 + Radium 228, total	pCi/L	10/14/20 - 11/20/23	13	0	CI around mean	0.227	1.89
G407	UA	E003	Selenium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.001	0.00480
G407	UA	E003	Sulfate, total	mg/L	10/14/20 - 11/20/23	13	0	CI around median	830	370
G407	UA	E003	Thallium, total	mg/L	10/14/20 - 11/20/23	13	100	All ND - Last	0.002	0.001
G407	UA	E003	Total Dissolved Solids	mg/L	10/14/20 - 11/20/23	13	0	CI around mean	1,920	840

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023

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

Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

LCU = Lower Confining 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