



Electric Energy, Inc.
1500 Eastport Plaza Drive
Collinsville, IL 62234

May 3, 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: Joppa Power Plant East Ash Pond; IEPA ID # W1270100004-02

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Electric Energy Inc. is submitting groundwater monitoring data for the Quarter 1, 2024 sampling event at the Joppa Power Plant East Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1270100004-02. 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), an alternative source demonstration (ASD) was submitted on October 21, 2023 for the exceedances of the cobalt and pH GWPS detected during the Quarter 2, 2023 sampling event. The IEPA provided a written response on November 16, 2023 that did not concur with the ASD. Therefore, a Corrective Measures Assessment was initiated on November 20, 2023 and submitted to IEPA on April 18, 2024 in accordance with 35 I.A.C. § 845.660. Boron GWPS exceedances will also be addressed 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 1, 2024, East Ash Pond, Joppa Power Plant, Joppa, Illinois

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 1, 2024
EAST ASH POND, JOPPA POWER PLANT, JOPPA, ILLINOIS

May 3, 2024

Samples were collected between January 29 and 31, 2024 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 March 4, 2024.

The monitoring well locations are included in **Figure 1. Attachment A**¹ summarizes the groundwater elevation data for the Quarter 1, 2024 sampling event. Monitoring location XSG01 had insufficient water to document a groundwater elevation. **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 1, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan² provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 1, 2024 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), an alternative source demonstration³ (ASD) was submitted on October 21, 2023 for the exceedances of the cobalt and pH GWPS detected during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on November 16, 2023⁴ that did not concur with the ASD. Therefore, a Corrective Measures Assessment (CMA) was initiated on November 20, 2023 and submitted to IEPA on April 18, 2024⁵ in accordance with 35 I.A.C. § 845.660. Boron GWPS exceedances will also be addressed 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 I.A.C. § 845.650(e), an ASD will be evaluated for new detected exceedances of

¹ Staff gage SG02 was decommissioned. A new staff gage (SG03) was installed in January 2023.

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. East Ash Pond. Joppa Power Plant. Joppa, Illinois. October 25, 2021.*

³ Ramboll, 2023. *35 I.A.C. § 845.650(E): Alternative Source Demonstration, East Ash Pond, Joppa, Illinois, IEPA ID: W1270100004-02. October 21, 2023.*

⁴ Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Dianna Tickner (Electric Energy, Inc.), Re: Joppa Power Plant East Ash Pond; W1270100004-02; Alternative Source Demonstration Submittal. November 16, 2023.*

⁵ Ramboll, 2024. *35 I.A.C § 845 Corrective Measures Assessment, Joppa Power Plant, East Ash Pond, IEPA ID: W1270100004-02. April 18, 2024.*

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 1, 2024
Table 2	Comparison of Statistical Results to GWPS - Quarter 1, 2024

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 1, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 1, 2024
Attachment C	Comparison of Statistical Results to Background - Quarter 1, 2024

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G01D	Background	E004	01/29/2024	Antimony, total	0.0004 U	mg/L
G01D	Background	E004	01/29/2024	Arsenic, total	0.00570	mg/L
G01D	Background	E004	01/29/2024	Barium, total	0.289	mg/L
G01D	Background	E004	01/29/2024	Beryllium, total	0.0008 J	mg/L
G01D	Background	E004	01/29/2024	Boron, total	0.03 UJ	mg/L
G01D	Background	E004	01/29/2024	Cadmium, total	0.0002 U	mg/L
G01D	Background	E004	01/29/2024	Calcium, total	39.2	mg/L
G01D	Background	E004	01/29/2024	Chloride, total	16.0	mg/L
G01D	Background	E004	01/29/2024	Chromium, total	0.0213	mg/L
G01D	Background	E004	01/29/2024	Cobalt, total	0.0172	mg/L
G01D	Background	E004	01/29/2024	Dissolved Oxygen	1.10	mg/L
G01D	Background	E004	01/29/2024	Fluoride, total	0.170	mg/L
G01D	Background	E004	01/29/2024	Lead, total	0.0100	mg/L
G01D	Background	E004	01/29/2024	Lithium, total	0.00580	mg/L
G01D	Background	E004	01/29/2024	Mercury, total	0.00006 U	mg/L
G01D	Background	E004	01/29/2024	Molybdenum, total	0.00150 J	mg/L
G01D	Background	E004	01/29/2024	Oxidation Reduction Potential	147	mV
G01D	Background	E004	01/29/2024	pH (field)	6.4	SU
G01D	Background	E004	01/29/2024	Radium 226 + Radium 228, total	5.85	pCi/L
G01D	Background	E004	01/29/2024	Selenium, total	0.0009 J	mg/L
G01D	Background	E004	01/29/2024	Specific Conductance @ 25C (field)	440	micromhos/cm
G01D	Background	E004	01/29/2024	Sulfate, total	34.0	mg/L
G01D	Background	E004	01/29/2024	Temperature	15.0	degrees C
G01D	Background	E004	01/29/2024	Thallium, total	0.001 U	mg/L
G01D	Background	E004	01/29/2024	Total Dissolved Solids	350	mg/L
G01D	Background	E004	01/29/2024	Turbidity, field	17.0	NTU
G02D	Background	E004	01/29/2024	Antimony, total	0.0004 U	mg/L
G02D	Background	E004	01/29/2024	Arsenic, total	0.0004 U	mg/L
G02D	Background	E004	01/29/2024	Barium, total	0.207	mg/L
G02D	Background	E004	01/29/2024	Beryllium, total	0.0002 U	mg/L
G02D	Background	E004	01/29/2024	Boron, total	0.0323 J+	mg/L
G02D	Background	E004	01/29/2024	Cadmium, total	0.0002 U	mg/L
G02D	Background	E004	01/29/2024	Calcium, total	37.0	mg/L
G02D	Background	E004	01/29/2024	Chloride, total	22.0	mg/L
G02D	Background	E004	01/29/2024	Chromium, total	0.002 UJ	mg/L
G02D	Background	E004	01/29/2024	Cobalt, total	0.0001 U	mg/L
G02D	Background	E004	01/29/2024	Dissolved Oxygen	2.34	mg/L
G02D	Background	E004	01/29/2024	Fluoride, total	0.190	mg/L
G02D	Background	E004	01/29/2024	Lead, total	0.0006 U	mg/L
G02D	Background	E004	01/29/2024	Lithium, total	0.0015 U	mg/L
G02D	Background	E004	01/29/2024	Mercury, total	0.00006 U	mg/L
G02D	Background	E004	01/29/2024	Molybdenum, total	0.0006 U	mg/L
G02D	Background	E004	01/29/2024	Oxidation Reduction Potential	151	mV
G02D	Background	E004	01/29/2024	pH (field)	6.4	SU
G02D	Background	E004	01/29/2024	Radium 226 + Radium 228, total	0.968	pCi/L
G02D	Background	E004	01/29/2024	Selenium, total	0.00120	mg/L

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EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G02D	Background	E004	01/29/2024	Specific Conductance @ 25C (field)	337	micromhos/cm
G02D	Background	E004	01/29/2024	Sulfate, total	15.0	mg/L
G02D	Background	E004	01/29/2024	Temperature	13.8	degrees C
G02D	Background	E004	01/29/2024	Thallium, total	0.001 U	mg/L
G02D	Background	E004	01/29/2024	Total Dissolved Solids	230	mg/L
G02D	Background	E004	01/29/2024	Turbidity, field	3.00	NTU
G03	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G03	Compliance	E004	01/30/2024	Arsenic, total	0.00340	mg/L
G03	Compliance	E004	01/30/2024	Barium, total	0.0733	mg/L
G03	Compliance	E004	01/30/2024	Beryllium, total	0.0007 J	mg/L
G03	Compliance	E004	01/30/2024	Boron, total	0.227	mg/L
G03	Compliance	E004	01/30/2024	Cadmium, total	0.0002 U	mg/L
G03	Compliance	E004	01/30/2024	Calcium, total	44.6	mg/L
G03	Compliance	E004	01/30/2024	Chloride, total	21.0	mg/L
G03	Compliance	E004	01/30/2024	Chromium, total	0.0132	mg/L
G03	Compliance	E004	01/30/2024	Cobalt, total	0.00650	mg/L
G03	Compliance	E004	01/30/2024	Dissolved Oxygen	3.90	mg/L
G03	Compliance	E004	01/30/2024	Fluoride, total	0.190	mg/L
G03	Compliance	E004	01/30/2024	Lead, total	0.00330	mg/L
G03	Compliance	E004	01/30/2024	Lithium, total	0.0027 J	mg/L
G03	Compliance	E004	01/30/2024	Mercury, total	0.00006 U	mg/L
G03	Compliance	E004	01/30/2024	Molybdenum, total	0.0012 J	mg/L
G03	Compliance	E004	01/30/2024	Oxidation Reduction Potential	159	mV
G03	Compliance	E004	01/30/2024	pH (field)	6.3	SU
G03	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	0.254	pCi/L
G03	Compliance	E004	01/30/2024	Selenium, total	0.0006 U	mg/L
G03	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	399	micromhos/cm
G03	Compliance	E004	01/30/2024	Sulfate, total	61.0	mg/L
G03	Compliance	E004	01/30/2024	Temperature	14.2	degrees C
G03	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G03	Compliance	E004	01/30/2024	Total Dissolved Solids	290	mg/L
G03	Compliance	E004	01/30/2024	Turbidity, field	340	NTU
G05	Compliance	E004	01/31/2024	Antimony, total	0.0004 U	mg/L
G05	Compliance	E004	01/31/2024	Arsenic, total	0.00140	mg/L
G05	Compliance	E004	01/31/2024	Barium, total	0.189	mg/L
G05	Compliance	E004	01/31/2024	Beryllium, total	0.0003 J	mg/L
G05	Compliance	E004	01/31/2024	Boron, total	0.0453 J+	mg/L
G05	Compliance	E004	01/31/2024	Cadmium, total	0.0002 U	mg/L
G05	Compliance	E004	01/31/2024	Calcium, total	53.9	mg/L
G05	Compliance	E004	01/31/2024	Chloride, total	21.0	mg/L
G05	Compliance	E004	01/31/2024	Chromium, total	0.00840 J+	mg/L
G05	Compliance	E004	01/31/2024	Cobalt, total	0.00300	mg/L
G05	Compliance	E004	01/31/2024	Dissolved Oxygen	1.29	mg/L
G05	Compliance	E004	01/31/2024	Fluoride, total	0.350	mg/L
G05	Compliance	E004	01/31/2024	Lead, total	0.00330	mg/L
G05	Compliance	E004	01/31/2024	Lithium, total	0.00360	mg/L

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845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G05	Compliance	E004	01/31/2024	Mercury, total	0.00006 U	mg/L
G05	Compliance	E004	01/31/2024	Molybdenum, total	0.00500	mg/L
G05	Compliance	E004	01/31/2024	Oxidation Reduction Potential	90.0	mV
G05	Compliance	E004	01/31/2024	pH (field)	6.4	SU
G05	Compliance	E004	01/31/2024	Radium 226 + Radium 228, total	3.38	pCi/L
G05	Compliance	E004	01/31/2024	Selenium, total	0.00120	mg/L
G05	Compliance	E004	01/31/2024	Specific Conductance @ 25C (field)	538	micromhos/cm
G05	Compliance	E004	01/31/2024	Sulfate, total	101	mg/L
G05	Compliance	E004	01/31/2024	Temperature	15.4	degrees C
G05	Compliance	E004	01/31/2024	Thallium, total	0.001 U	mg/L
G05	Compliance	E004	01/31/2024	Total Dissolved Solids	365	mg/L
G05	Compliance	E004	01/31/2024	Turbidity, field	10.0	NTU
G06	Compliance	E004	01/30/2024	Antimony, total	0.0005 J	mg/L
G06	Compliance	E004	01/30/2024	Arsenic, total	0.0116	mg/L
G06	Compliance	E004	01/30/2024	Barium, total	0.136	mg/L
G06	Compliance	E004	01/30/2024	Beryllium, total	0.00170	mg/L
G06	Compliance	E004	01/30/2024	Boron, total	2.47	mg/L
G06	Compliance	E004	01/30/2024	Cadmium, total	0.0002 U	mg/L
G06	Compliance	E004	01/30/2024	Calcium, total	89.8	mg/L
G06	Compliance	E004	01/30/2024	Chloride, total	21.0	mg/L
G06	Compliance	E004	01/30/2024	Chromium, total	0.0488	mg/L
G06	Compliance	E004	01/30/2024	Cobalt, total	0.0151	mg/L
G06	Compliance	E004	01/30/2024	Dissolved Oxygen	1.25	mg/L
G06	Compliance	E004	01/30/2024	Fluoride, total	0.230	mg/L
G06	Compliance	E004	01/30/2024	Lead, total	0.0160	mg/L
G06	Compliance	E004	01/30/2024	Lithium, total	0.0112	mg/L
G06	Compliance	E004	01/30/2024	Mercury, total	0.00006 U	mg/L
G06	Compliance	E004	01/30/2024	Molybdenum, total	0.00230	mg/L
G06	Compliance	E004	01/30/2024	Oxidation Reduction Potential	150	mV
G06	Compliance	E004	01/30/2024	pH (field)	6.6	SU
G06	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	5.08	pCi/L
G06	Compliance	E004	01/30/2024	Selenium, total	0.0006 U	mg/L
G06	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	573	micromhos/cm
G06	Compliance	E004	01/30/2024	Sulfate, total	191	mg/L
G06	Compliance	E004	01/30/2024	Temperature	13.5	degrees C
G06	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G06	Compliance	E004	01/30/2024	Total Dissolved Solids	380	mg/L
G06	Compliance	E004	01/30/2024	Turbidity, field	280	NTU
G07	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G07	Compliance	E004	01/30/2024	Arsenic, total	0.00540	mg/L
G07	Compliance	E004	01/30/2024	Barium, total	0.182	mg/L
G07	Compliance	E004	01/30/2024	Beryllium, total	0.00100 J	mg/L
G07	Compliance	E004	01/30/2024	Boron, total	3.93	mg/L
G07	Compliance	E004	01/30/2024	Cadmium, total	0.0002 U	mg/L
G07	Compliance	E004	01/30/2024	Calcium, total	99.2	mg/L
G07	Compliance	E004	01/30/2024	Chloride, total	22.0	mg/L

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845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G07	Compliance	E004	01/30/2024	Chromium, total	0.0284	mg/L
G07	Compliance	E004	01/30/2024	Cobalt, total	0.00520	mg/L
G07	Compliance	E004	01/30/2024	Dissolved Oxygen	0.970	mg/L
G07	Compliance	E004	01/30/2024	Fluoride, total	0.380	mg/L
G07	Compliance	E004	01/30/2024	Lead, total	0.00540	mg/L
G07	Compliance	E004	01/30/2024	Lithium, total	0.00630	mg/L
G07	Compliance	E004	01/30/2024	Mercury, total	0.00006 U	mg/L
G07	Compliance	E004	01/30/2024	Molybdenum, total	0.00190	mg/L
G07	Compliance	E004	01/30/2024	Oxidation Reduction Potential	156	mV
G07	Compliance	E004	01/30/2024	pH (field)	6.3	SU
G07	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	3.14	pCi/L
G07	Compliance	E004	01/30/2024	Selenium, total	0.0006 U	mg/L
G07	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	710	micromhos/cm
G07	Compliance	E004	01/30/2024	Sulfate, total	293	mg/L
G07	Compliance	E004	01/30/2024	Temperature	14.3	degrees C
G07	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G07	Compliance	E004	01/30/2024	Total Dissolved Solids	650	mg/L
G07	Compliance	E004	01/30/2024	Turbidity, field	280	NTU
G08	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G08	Compliance	E004	01/30/2024	Arsenic, total	0.0183	mg/L
G08	Compliance	E004	01/30/2024	Barium, total	0.142	mg/L
G08	Compliance	E004	01/30/2024	Beryllium, total	0.0007 J	mg/L
G08	Compliance	E004	01/30/2024	Boron, total	4.61	mg/L
G08	Compliance	E004	01/30/2024	Cadmium, total	0.00100 J	mg/L
G08	Compliance	E004	01/30/2024	Calcium, total	134	mg/L
G08	Compliance	E004	01/30/2024	Chloride, total	14.0	mg/L
G08	Compliance	E004	01/30/2024	Chromium, total	0.0153	mg/L
G08	Compliance	E004	01/30/2024	Cobalt, total	0.0126	mg/L
G08	Compliance	E004	01/30/2024	Dissolved Oxygen	0.770	mg/L
G08	Compliance	E004	01/30/2024	Fluoride, total	0.260	mg/L
G08	Compliance	E004	01/30/2024	Lead, total	0.00510	mg/L
G08	Compliance	E004	01/30/2024	Lithium, total	0.00410	mg/L
G08	Compliance	E004	01/30/2024	Mercury, total	0.00006 U	mg/L
G08	Compliance	E004	01/30/2024	Molybdenum, total	0.00290	mg/L
G08	Compliance	E004	01/30/2024	Oxidation Reduction Potential	137	mV
G08	Compliance	E004	01/30/2024	pH (field)	6.9	SU
G08	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	3.01	pCi/L
G08	Compliance	E004	01/30/2024	Selenium, total	0.0006 U	mg/L
G08	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	735	micromhos/cm
G08	Compliance	E004	01/30/2024	Sulfate, total	334	mg/L
G08	Compliance	E004	01/30/2024	Temperature	14.6	degrees C
G08	Compliance	E004	01/30/2024	Thallium, total	0.0013 J	mg/L
G08	Compliance	E004	01/30/2024	Total Dissolved Solids	670	mg/L
G08	Compliance	E004	01/30/2024	Turbidity, field	160	NTU
G09	Compliance	E004	02/01/2024	Antimony, total	0.0007 J	mg/L
G09	Compliance	E004	02/01/2024	Arsenic, total	0.0140	mg/L

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JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G09	Compliance	E004	02/01/2024	Barium, total	0.0942	mg/L
G09	Compliance	E004	02/01/2024	Beryllium, total	0.00330	mg/L
G09	Compliance	E004	02/01/2024	Boron, total	2.95	mg/L
G09	Compliance	E004	02/01/2024	Cadmium, total	0.0003 J	mg/L
G09	Compliance	E004	02/01/2024	Calcium, total	60.8	mg/L
G09	Compliance	E004	02/01/2024	Chloride, total	17.0	mg/L
G09	Compliance	E004	02/01/2024	Chromium, total	0.0298	mg/L
G09	Compliance	E004	02/01/2024	Cobalt, total	0.00920	mg/L
G09	Compliance	E004	02/01/2024	Dissolved Oxygen	2.48	mg/L
G09	Compliance	E004	02/01/2024	Fluoride, total	0.250	mg/L
G09	Compliance	E004	02/01/2024	Lead, total	0.00840	mg/L
G09	Compliance	E004	02/01/2024	Lithium, total	0.00590	mg/L
G09	Compliance	E004	02/01/2024	Mercury, total	0.00006 U	mg/L
G09	Compliance	E004	02/01/2024	Molybdenum, total	0.0013 J	mg/L
G09	Compliance	E004	02/01/2024	Oxidation Reduction Potential	161	mV
G09	Compliance	E004	02/01/2024	pH (field)	6.0	SU
G09	Compliance	E004	02/01/2024	Radium 226 + Radium 228, total	2.27	pCi/L
G09	Compliance	E004	02/01/2024	Selenium, total	0.0006 U	mg/L
G09	Compliance	E004	02/01/2024	Specific Conductance @ 25C (field)	594	micromhos/cm
G09	Compliance	E004	02/01/2024	Sulfate, total	234	mg/L
G09	Compliance	E004	02/01/2024	Temperature	16.0	degrees C
G09	Compliance	E004	02/01/2024	Thallium, total	0.001 U	mg/L
G09	Compliance	E004	02/01/2024	Total Dissolved Solids	580	mg/L
G09	Compliance	E004	02/01/2024	Turbidity, field	350	NTU
G10	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G10	Compliance	E004	01/30/2024	Arsenic, total	0.0156	mg/L
G10	Compliance	E004	01/30/2024	Barium, total	0.128	mg/L
G10	Compliance	E004	01/30/2024	Beryllium, total	0.00250	mg/L
G10	Compliance	E004	01/30/2024	Boron, total	1.16	mg/L
G10	Compliance	E004	01/30/2024	Cadmium, total	0.0002 J	mg/L
G10	Compliance	E004	01/30/2024	Calcium, total	102	mg/L
G10	Compliance	E004	01/30/2024	Chloride, total	21.0	mg/L
G10	Compliance	E004	01/30/2024	Chromium, total	0.0511	mg/L
G10	Compliance	E004	01/30/2024	Cobalt, total	0.0114	mg/L
G10	Compliance	E004	01/30/2024	Dissolved Oxygen	2.23	mg/L
G10	Compliance	E004	01/30/2024	Fluoride, total	0.870	mg/L
G10	Compliance	E004	01/30/2024	Lead, total	0.0102	mg/L
G10	Compliance	E004	01/30/2024	Lithium, total	0.0256	mg/L
G10	Compliance	E004	01/30/2024	Mercury, total	0.00006 U	mg/L
G10	Compliance	E004	01/30/2024	Molybdenum, total	0.00620	mg/L
G10	Compliance	E004	01/30/2024	Oxidation Reduction Potential	158	mV
G10	Compliance	E004	01/30/2024	pH (field)	6.4	SU
G10	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	3.22	pCi/L
G10	Compliance	E004	01/30/2024	Selenium, total	0.0006 U	mg/L
G10	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	816	micromhos/cm
G10	Compliance	E004	01/30/2024	Sulfate, total	272	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G10	Compliance	E004	01/30/2024	Temperature	14.1	degrees C
G10	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G10	Compliance	E004	01/30/2024	Total Dissolved Solids	780	mg/L
G10	Compliance	E004	01/30/2024	Turbidity, field	310	NTU
G11	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G11	Compliance	E004	01/30/2024	Arsenic, total	0.00160	mg/L
G11	Compliance	E004	01/30/2024	Barium, total	0.0656	mg/L
G11	Compliance	E004	01/30/2024	Beryllium, total	0.0003 J	mg/L
G11	Compliance	E004	01/30/2024	Boron, total	0.243	mg/L
G11	Compliance	E004	01/30/2024	Cadmium, total	0.0002 U	mg/L
G11	Compliance	E004	01/30/2024	Calcium, total	61.9	mg/L
G11	Compliance	E004	01/30/2024	Chloride, total	25.0	mg/L
G11	Compliance	E004	01/30/2024	Chromium, total	0.00660 J+	mg/L
G11	Compliance	E004	01/30/2024	Cobalt, total	0.00780	mg/L
G11	Compliance	E004	01/30/2024	Dissolved Oxygen	1.38	mg/L
G11	Compliance	E004	01/30/2024	Fluoride, total	0.180	mg/L
G11	Compliance	E004	01/30/2024	Lead, total	0.00150	mg/L
G11	Compliance	E004	01/30/2024	Lithium, total	0.00400	mg/L
G11	Compliance	E004	01/30/2024	Mercury, total	0.00009 U	mg/L
G11	Compliance	E004	01/30/2024	Molybdenum, total	0.0009 J	mg/L
G11	Compliance	E004	01/30/2024	Oxidation Reduction Potential	127	mV
G11	Compliance	E004	01/30/2024	pH (field)	6.0	SU
G11	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	2.33	pCi/L
G11	Compliance	E004	01/30/2024	Selenium, total	0.00170	mg/L
G11	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	558	micromhos/cm
G11	Compliance	E004	01/30/2024	Sulfate, total	176	mg/L
G11	Compliance	E004	01/30/2024	Temperature	15.6	degrees C
G11	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G11	Compliance	E004	01/30/2024	Total Dissolved Solids	400	mg/L
G11	Compliance	E004	01/30/2024	Turbidity, field	180	NTU
G51D	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G51D	Compliance	E004	01/30/2024	Arsenic, total	0.0004 U	mg/L
G51D	Compliance	E004	01/30/2024	Barium, total	0.0346	mg/L
G51D	Compliance	E004	01/30/2024	Beryllium, total	0.0002 U	mg/L
G51D	Compliance	E004	01/30/2024	Boron, total	0.704	mg/L
G51D	Compliance	E004	01/30/2024	Cadmium, total	0.0002 U	mg/L
G51D	Compliance	E004	01/30/2024	Calcium, total	28.3	mg/L
G51D	Compliance	E004	01/30/2024	Chloride, total	4.00 J+	mg/L
G51D	Compliance	E004	01/30/2024	Chromium, total	0.00210 J+	mg/L
G51D	Compliance	E004	01/30/2024	Cobalt, total	0.00120	mg/L
G51D	Compliance	E004	01/30/2024	Dissolved Oxygen	3.54	mg/L
G51D	Compliance	E004	01/30/2024	Fluoride, total	0.08 J	mg/L
G51D	Compliance	E004	01/30/2024	Lead, total	0.0006 U	mg/L
G51D	Compliance	E004	01/30/2024	Lithium, total	0.00540	mg/L
G51D	Compliance	E004	01/30/2024	Mercury, total	0.00009 U	mg/L
G51D	Compliance	E004	01/30/2024	Molybdenum, total	0.0006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G51D	Compliance	E004	01/30/2024	Oxidation Reduction Potential	188	mV
G51D	Compliance	E004	01/30/2024	pH (field)	5.5	SU
G51D	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	1.75	pCi/L
G51D	Compliance	E004	01/30/2024	Selenium, total	0.00490	mg/L
G51D	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	341	micromhos/cm
G51D	Compliance	E004	01/30/2024	Sulfate, total	121	mg/L
G51D	Compliance	E004	01/30/2024	Temperature	15.6	degrees C
G51D	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G51D	Compliance	E004	01/30/2024	Total Dissolved Solids	325	mg/L
G51D	Compliance	E004	01/30/2024	Turbidity, field	54.0	NTU
G52D	Compliance	E004	01/31/2024	Antimony, total	0.0004 U	mg/L
G52D	Compliance	E004	01/31/2024	Arsenic, total	0.00130	mg/L
G52D	Compliance	E004	01/31/2024	Barium, total	0.213	mg/L
G52D	Compliance	E004	01/31/2024	Beryllium, total	0.0002 U	mg/L
G52D	Compliance	E004	01/31/2024	Boron, total	0.03 UJ	mg/L
G52D	Compliance	E004	01/31/2024	Cadmium, total	0.0002 U	mg/L
G52D	Compliance	E004	01/31/2024	Calcium, total	43.0	mg/L
G52D	Compliance	E004	01/31/2024	Chloride, total	11.0	mg/L
G52D	Compliance	E004	01/31/2024	Chromium, total	0.0008 U	mg/L
G52D	Compliance	E004	01/31/2024	Cobalt, total	0.00340	mg/L
G52D	Compliance	E004	01/31/2024	Dissolved Oxygen	1.51	mg/L
G52D	Compliance	E004	01/31/2024	Fluoride, total	0.250	mg/L
G52D	Compliance	E004	01/31/2024	Lead, total	0.0006 U	mg/L
G52D	Compliance	E004	01/31/2024	Lithium, total	0.0024 J	mg/L
G52D	Compliance	E004	01/31/2024	Mercury, total	0.00009 U	mg/L
G52D	Compliance	E004	01/31/2024	Molybdenum, total	0.0008 J	mg/L
G52D	Compliance	E004	01/31/2024	Oxidation Reduction Potential	-56.0	mV
G52D	Compliance	E004	01/31/2024	pH (field)	6.3	SU
G52D	Compliance	E004	01/31/2024	Radium 226 + Radium 228, total	1.79	pCi/L
G52D	Compliance	E004	01/31/2024	Selenium, total	0.0006 U	mg/L
G52D	Compliance	E004	01/31/2024	Specific Conductance @ 25C (field)	368	micromhos/cm
G52D	Compliance	E004	01/31/2024	Sulfate, total	45.0	mg/L
G52D	Compliance	E004	01/31/2024	Temperature	11.8	degrees C
G52D	Compliance	E004	01/31/2024	Thallium, total	0.001 U	mg/L
G52D	Compliance	E004	01/31/2024	Total Dissolved Solids	296	mg/L
G52D	Compliance	E004	01/31/2024	Turbidity, field	2.50	NTU
G53D	Compliance	E004	01/30/2024	Antimony, total	0.0004 U	mg/L
G53D	Compliance	E004	01/30/2024	Arsenic, total	0.0008 J	mg/L
G53D	Compliance	E004	01/30/2024	Barium, total	0.110	mg/L
G53D	Compliance	E004	01/30/2024	Beryllium, total	0.0003 J	mg/L
G53D	Compliance	E004	01/30/2024	Boron, total	0.427	mg/L
G53D	Compliance	E004	01/30/2024	Cadmium, total	0.0002 U	mg/L
G53D	Compliance	E004	01/30/2024	Calcium, total	37.5	mg/L
G53D	Compliance	E004	01/30/2024	Chloride, total	18.0	mg/L
G53D	Compliance	E004	01/30/2024	Chromium, total	0.00250 J+	mg/L
G53D	Compliance	E004	01/30/2024	Cobalt, total	0.00280	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G53D	Compliance	E004	01/30/2024	Dissolved Oxygen	1.78	mg/L
G53D	Compliance	E004	01/30/2024	Fluoride, total	0.650	mg/L
G53D	Compliance	E004	01/30/2024	Lead, total	0.0008 J	mg/L
G53D	Compliance	E004	01/30/2024	Lithium, total	0.0019 J	mg/L
G53D	Compliance	E004	01/30/2024	Mercury, total	0.00009 U	mg/L
G53D	Compliance	E004	01/30/2024	Molybdenum, total	0.0006 U	mg/L
G53D	Compliance	E004	01/30/2024	Oxidation Reduction Potential	150	mV
G53D	Compliance	E004	01/30/2024	pH (field)	6.5	SU
G53D	Compliance	E004	01/30/2024	Radium 226 + Radium 228, total	0.798	pCi/L
G53D	Compliance	E004	01/30/2024	Selenium, total	0.0006 U	mg/L
G53D	Compliance	E004	01/30/2024	Specific Conductance @ 25C (field)	396	micromhos/cm
G53D	Compliance	E004	01/30/2024	Sulfate, total	70.0	mg/L
G53D	Compliance	E004	01/30/2024	Temperature	15.0	degrees C
G53D	Compliance	E004	01/30/2024	Thallium, total	0.001 U	mg/L
G53D	Compliance	E004	01/30/2024	Total Dissolved Solids	325	mg/L
G53D	Compliance	E004	01/30/2024	Turbidity, field	7.10	NTU
G54D	Compliance	E004	01/31/2024	Antimony, total	0.0004 U	mg/L
G54D	Compliance	E004	01/31/2024	Arsenic, total	0.0007 J	mg/L
G54D	Compliance	E004	01/31/2024	Barium, total	0.0704	mg/L
G54D	Compliance	E004	01/31/2024	Beryllium, total	0.0002 U	mg/L
G54D	Compliance	E004	01/31/2024	Boron, total	0.804	mg/L
G54D	Compliance	E004	01/31/2024	Cadmium, total	0.0002 U	mg/L
G54D	Compliance	E004	01/31/2024	Calcium, total	93.3	mg/L
G54D	Compliance	E004	01/31/2024	Chloride, total	21.0	mg/L
G54D	Compliance	E004	01/31/2024	Chromium, total	0.002 UJ	mg/L
G54D	Compliance	E004	01/31/2024	Cobalt, total	0.0104	mg/L
G54D	Compliance	E004	01/31/2024	Dissolved Oxygen	0.730	mg/L
G54D	Compliance	E004	01/31/2024	Fluoride, total	0.270	mg/L
G54D	Compliance	E004	01/31/2024	Lead, total	0.0006 U	mg/L
G54D	Compliance	E004	01/31/2024	Lithium, total	0.00370	mg/L
G54D	Compliance	E004	01/31/2024	Mercury, total	0.00009 U	mg/L
G54D	Compliance	E004	01/31/2024	Molybdenum, total	0.0006 U	mg/L
G54D	Compliance	E004	01/31/2024	Oxidation Reduction Potential	18.0	mV
G54D	Compliance	E004	01/31/2024	pH (field)	6.5	SU
G54D	Compliance	E004	01/31/2024	Radium 226 + Radium 228, total	0.592	pCi/L
G54D	Compliance	E004	01/31/2024	Selenium, total	0.0006 U	mg/L
G54D	Compliance	E004	01/31/2024	Specific Conductance @ 25C (field)	688	micromhos/cm
G54D	Compliance	E004	01/31/2024	Sulfate, total	197	mg/L
G54D	Compliance	E004	01/31/2024	Temperature	14.7	degrees C
G54D	Compliance	E004	01/31/2024	Thallium, total	0.001 U	mg/L
G54D	Compliance	E004	01/31/2024	Total Dissolved Solids	530	mg/L
G54D	Compliance	E004	01/31/2024	Turbidity, field	6.90	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

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 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G03	UA	E004	Antimony, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G03	UA	E004	Arsenic, total	mg/L	03/05/21 - 01/30/24	14	43	CI around geomean	0.00114	0.010	Standard	No Exceedance
G03	UA	E004	Barium, total	mg/L	03/05/21 - 01/30/24	14	0	CI around mean	0.0607	2.0	Standard	No Exceedance
G03	UA	E004	Beryllium, total	mg/L	03/05/21 - 01/30/24	14	93	CI around median	0.001	0.004	Standard	No Exceedance
G03	UA	E004	Boron, total	mg/L	03/05/21 - 01/30/24	14	0	CI around geomean	0.238	2	Standard	No Exceedance
G03	UA	E004	Cadmium, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G03	UA	E004	Chloride, total	mg/L	03/05/21 - 01/30/24	14	0	CI around mean	20.5	200	Standard	No Exceedance
G03	UA	E004	Chromium, total	mg/L	03/05/21 - 01/30/24	14	7	CI around mean	0.00352	0.1	Standard	No Exceedance
G03	UA	E004	Cobalt, total	mg/L	03/05/21 - 01/30/24	14	29	CI around geomean	0.00145	0.006	Standard	No Exceedance
G03	UA	E004	Fluoride, total	mg/L	03/05/21 - 01/30/24	14	0	CI around mean	0.191	4.0	Standard	No Exceedance
G03	UA	E004	Lead, total	mg/L	03/05/21 - 01/30/24	14	36	CI around geomean	0.00118	0.0075	Standard	No Exceedance
G03	UA	E004	Lithium, total	mg/L	03/05/21 - 01/30/24	14	71	CI around median	0.003	0.04	Standard	No Exceedance
G03	UA	E004	Mercury, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G03	UA	E004	Molybdenum, total	mg/L	03/05/21 - 01/30/24	14	86	CI around median	0.0015	0.1	Standard	No Exceedance
G03	UA	E004	pH (field)	SU	03/05/21 - 01/30/24	14	0	CI around mean	6.3/6.4	6.0/9.0	Background/Standard	No Exceedance
G03	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 01/30/24	14	0	CI around mean	0.368	5	Standard	No Exceedance
G03	UA	E004	Selenium, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G03	UA	E004	Sulfate, total	mg/L	03/05/21 - 01/30/24	14	0	CI around geomean	69.9	400	Standard	No Exceedance
G03	UA	E004	Thallium, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G03	UA	E004	Total Dissolved Solids	mg/L	03/05/21 - 01/30/24	14	0	CI around geomean	282	1,200	Standard	No Exceedance
G05	UA	E004	Antimony, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G05	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/31/24	14	86	CI around median	0.001	0.010	Standard	No Exceedance
G05	UA	E004	Barium, total	mg/L	03/04/21 - 01/31/24	14	0	CB around T-S line	0.156	2.0	Standard	No Exceedance
G05	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G05	UA	E004	Boron, total	mg/L	03/04/21 - 01/31/24	14	0	CB around linear reg	-0.00879	2	Standard	No Exceedance
G05	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G05	UA	E004	Chloride, total	mg/L	03/04/21 - 01/31/24	14	0	CI around mean	17.2	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G05	UA	E004	Chromium, total	mg/L	03/04/21 - 01/31/24	14	71	CI around median	0.0015	0.1	Standard	No Exceedance
G05	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/31/24	14	0	CB around linear reg	0.000397	0.006	Standard	No Exceedance
G05	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/31/24	14	0	CB around linear reg	0.348	4.0	Standard	No Exceedance
G05	UA	E004	Lead, total	mg/L	03/04/21 - 01/31/24	14	93	CI around median	0.001	0.0075	Standard	No Exceedance
G05	UA	E004	Lithium, total	mg/L	03/04/21 - 01/31/24	14	71	CI around median	0.003	0.04	Standard	No Exceedance
G05	UA	E004	Mercury, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G05	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/31/24	14	7	CI around mean	0.00391	0.1	Standard	No Exceedance
G05	UA	E004	pH (field)	SU	03/04/21 - 01/31/24	14	0	CI around mean	6.4/6.5	6.0/9.0	Background/Standard	No Exceedance
G05	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/31/24	14	0	CI around geomean	0.413	5	Standard	No Exceedance
G05	UA	E004	Selenium, total	mg/L	03/04/21 - 01/31/24	14	29	CB around linear reg	0.000114	0.05	Standard	No Exceedance
G05	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/31/24	14	0	CI around mean	84.1	400	Standard	No Exceedance
G05	UA	E004	Thallium, total	mg/L	03/04/21 - 01/31/24	14	93	CI around median	0.002	0.002	Standard	No Exceedance
G05	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/31/24	14	0	CI around mean	353	1,200	Standard	No Exceedance
G06	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.001	0.010	Standard	No Exceedance
G06	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	0.0257	2.0	Standard	No Exceedance
G06	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.004	Standard	No Exceedance
G06	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	3.01	2	Standard	Exceedance
G06	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G06	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	21	200	Standard	No Exceedance
G06	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	29	CI around geomean	0.00161	0.1	Standard	No Exceedance
G06	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.252	4.0	Standard	No Exceedance
G06	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.001	0.0075	Standard	No Exceedance
G06	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	21	CI around median	0.0035	0.04	Standard	No Exceedance
G06	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G06	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G06	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	13	0	CI around mean	6.5/6.6	6.0/9.0	Background/Standard	No Exceedance
G06	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CB around linear reg	1.19	5	Standard	No Exceedance
G06	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G06	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	177	400	Standard	No Exceedance
G06	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G06	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	407	1,200	Standard	No Exceedance
G07	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G07	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	71	CI around median	0.001	0.010	Standard	No Exceedance
G07	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around geomean	0.0443	2.0	Standard	No Exceedance
G07	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.001	0.004	Standard	No Exceedance
G07	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	4.29	2	Standard	Exceedance
G07	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G07	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	20.4	200	Standard	No Exceedance
G07	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	36	CI around geomean	0.00213	0.1	Standard	No Exceedance
G07	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	7	CI around mean	0.00147	0.006	Standard	No Exceedance
G07	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	0.38	4.0	Standard	No Exceedance
G07	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	71	CI around median	0.001	0.0075	Standard	No Exceedance
G07	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.003	0.04	Standard	No Exceedance
G07	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G07	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.0015	0.1	Standard	No Exceedance
G07	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around mean	6.2/6.5	6.0/9.0	Background/Standard	No Exceedance
G07	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CB around linear reg	1.15	5	Standard	No Exceedance
G07	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G07	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	253	400	Standard	No Exceedance
G07	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G07	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	578	1,200	Standard	No Exceedance
G08	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G08	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	7	CI around mean	0.00621	0.010	Standard	No Exceedance
G08	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.0525	2.0	Standard	No Exceedance
G08	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.004	Standard	No Exceedance
G08	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	4.22	2	Standard	Exceedance
G08	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.005	Standard	No Exceedance
G08	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	14.2	200	Standard	No Exceedance
G08	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	14	CI around geomean	0.00171	0.1	Standard	No Exceedance
G08	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	7	CI around mean	0.00349	0.006	Standard	No Exceedance
G08	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	0.215	4.0	Standard	No Exceedance
G08	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	71	CI around median	0.001	0.0075	Standard	No Exceedance
G08	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.003	0.04	Standard	No Exceedance
G08	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G08	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	14	CI around geomean	0.00193	0.1	Standard	No Exceedance
G08	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around median	6.8/7.0	6.0/9.0	Background/Standard	No Exceedance
G08	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CB around linear reg	0.795	5	Standard	No Exceedance
G08	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G08	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	300	400	Standard	No Exceedance
G08	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G08	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	562	1,200	Standard	No Exceedance
G09	UA	E004	Antimony, total	mg/L	03/04/21 - 02/01/24	14	93	CI around median	0.001	0.006	Standard	No Exceedance
G09	UA	E004	Arsenic, total	mg/L	03/04/21 - 02/01/24	14	14	CI around geomean	0.00197	0.010	Standard	No Exceedance
G09	UA	E004	Barium, total	mg/L	03/04/21 - 02/01/24	14	0	CI around mean	0.037	2.0	Standard	No Exceedance
G09	UA	E004	Beryllium, total	mg/L	03/04/21 - 02/01/24	14	71	CI around median	0.001	0.004	Standard	No Exceedance
G09	UA	E004	Boron, total	mg/L	03/04/21 - 02/01/24	14	0	CI around median	3.15	2	Standard	Exceedance
G09	UA	E004	Cadmium, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G09	UA	E004	Chloride, total	mg/L	03/04/21 - 02/01/24	14	0	CB around linear reg	13.7	200	Standard	No Exceedance
G09	UA	E004	Chromium, total	mg/L	03/04/21 - 02/01/24	14	21	CI around geomean	0.00162	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G09	UA	E004	Cobalt, total	mg/L	03/04/21 - 02/01/24	14	0	CB around linear reg	-0.000461	0.006	Standard	No Exceedance
G09	UA	E004	Fluoride, total	mg/L	03/04/21 - 02/01/24	14	0	CI around mean	0.278	4.0	Standard	No Exceedance
G09	UA	E004	Lead, total	mg/L	03/04/21 - 02/01/24	14	64	CI around median	0.001	0.0075	Standard	No Exceedance
G09	UA	E004	Lithium, total	mg/L	03/04/21 - 02/01/24	14	14	CI around median	0.0034	0.04	Standard	No Exceedance
G09	UA	E004	Mercury, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G09	UA	E004	Molybdenum, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G09	UA	E004	pH (field)	SU	03/04/21 - 02/01/24	14	0	CI around median	6.0/6.4	6.0/9.0	Background/Standard	No Exceedance
G09	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 02/01/24	14	0	CI around mean	0.312	5	Standard	No Exceedance
G09	UA	E004	Selenium, total	mg/L	03/04/21 - 02/01/24	14	93	CI around median	0.001	0.05	Standard	No Exceedance
G09	UA	E004	Sulfate, total	mg/L	03/04/21 - 02/01/24	14	0	CB around T-S line	148	400	Standard	No Exceedance
G09	UA	E004	Thallium, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G09	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 02/01/24	14	0	CB around linear reg	443	1,200	Standard	No Exceedance
G10	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G10	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	29	CI around geomean	0.00116	0.010	Standard	No Exceedance
G10	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around geomean	0.0381	2.0	Standard	No Exceedance
G10	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.001	0.004	Standard	No Exceedance
G10	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	1.39	2	Standard	No Exceedance
G10	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G10	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	25	200	Standard	No Exceedance
G10	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	29	CI around geomean	0.00169	0.1	Standard	No Exceedance
G10	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	-0.000645	0.006	Standard	No Exceedance
G10	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	0.28	4.0	Standard	No Exceedance
G10	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.001	0.0075	Standard	No Exceedance
G10	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	36	CI around median	0.003	0.04	Standard	No Exceedance
G10	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G10	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.0015	0.1	Standard	No Exceedance
G10	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around mean	6.5/6.7	6.0/9.0	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G10	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CI around mean	0.538	5	Standard	No Exceedance
G10	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G10	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	353	400	Standard	No Exceedance
G10	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G10	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	750	1,200	Standard	No Exceedance
G11	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G11	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.010	Standard	No Exceedance
G11	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around geomean	0.0142	2.0	Standard	No Exceedance
G11	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.004	Standard	No Exceedance
G11	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.281	2	Standard	No Exceedance
G11	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G11	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	31.3	200	Standard	No Exceedance
G11	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	36	CI around geomean	0.00101	0.006	Standard	No Exceedance
G11	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.168	4.0	Standard	No Exceedance
G11	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.001	0.0075	Standard	No Exceedance
G11	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	14	CI around median	0.0035	0.04	Standard	No Exceedance
G11	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G11	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around median	5.8/6.0	6.0/9.0	Background/Standard	No Exceedance
G11	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CI around mean	0.303	5	Standard	No Exceedance
G11	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	-0.00254	0.05	Standard	No Exceedance
G11	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	0.131	400	Standard	No Exceedance
G11	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.002	0.002	Standard	No Exceedance
G11	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	197	1,200	Standard	No Exceedance
G51D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G51D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G51D	UA	E004	Barium, total	mg/L	12/03/15 - 01/30/24	24	0	CB around T-S line	0.0151	2.0	Standard	No Exceedance
G51D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G51D	UA	E004	Boron, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	0.532	2	Standard	No Exceedance
G51D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G51D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	2.54	200	Standard	No Exceedance
G51D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/30/24	24	71	CB around T-S line	0.0015	0.1	Standard	No Exceedance
G51D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/30/24	24	17	CB around T-S line	-0.0118	0.006	Standard	No Exceedance
G51D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/30/24	25	84	CI around median	0.1	4.0	Standard	No Exceedance
G51D	UA	E004	Lead, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G51D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/30/24	24	4	CB around T-S line	0.00545	0.04	Standard	No Exceedance
G51D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G51D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/30/24	20	95	CB around T-S line	0.00121	0.1	Standard	No Exceedance
G51D	UA	E004	pH (field)	SU	12/03/15 - 01/30/24	25	0	CB around T-S line	5.1/5.4	6.0/9.0	Background/Standard	Exceedance
G51D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/30/24	24	0	CI around mean	0.503	5	Standard	No Exceedance
G51D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/30/24	24	4	CB around T-S line	0.0045	0.05	Standard	No Exceedance
G51D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	99.9	400	Standard	No Exceedance
G51D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G51D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/30/24	25	0	CB around linear reg	282	1,200	Standard	No Exceedance
G52D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G52D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/31/24	23	9	CB around linear reg	-0.000558	0.010	Standard	No Exceedance
G52D	UA	E004	Barium, total	mg/L	12/03/15 - 01/31/24	23	0	CB around T-S line	0.117	2.0	Standard	No Exceedance
G52D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G52D	UA	E004	Boron, total	mg/L	12/03/15 - 01/31/24	24	92	CI around median	0.025	2	Standard	No Exceedance
G52D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G52D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	7.25	200	Standard	No Exceedance
G52D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/31/24	23	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G52D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/31/24	23	0	CI around mean	0.00292	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G52D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/31/24	24	0	CI around median	0.25	4.0	Standard	No Exceedance
G52D	UA	E004	Lead, total	mg/L	12/03/15 - 01/31/24	23	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G52D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/31/24	23	48	CI around median	0.0028	0.04	Standard	No Exceedance
G52D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G52D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/31/24	19	79	CI around median	0.0011	0.1	Standard	No Exceedance
G52D	UA	E004	pH (field)	SU	12/03/15 - 01/31/24	24	0	CI around mean	6.2/6.4	6.0/9.0	Background/Standard	No Exceedance
G52D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/31/24	23	0	CI around mean	0.882	5	Standard	No Exceedance
G52D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/31/24	23	96	CI around median	0.001	0.05	Standard	No Exceedance
G52D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	49.2	400	Standard	No Exceedance
G52D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G52D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	275	1,200	Standard	No Exceedance
G53D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G53D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G53D	UA	E004	Barium, total	mg/L	12/03/15 - 01/30/24	24	0	CB around T-S line	-0.0258	2.0	Standard	No Exceedance
G53D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G53D	UA	E004	Boron, total	mg/L	12/03/15 - 01/30/24	25	0	CI around median	0.334	2	Standard	No Exceedance
G53D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G53D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/30/24	25	0	CI around median	18	200	Standard	No Exceedance
G53D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/30/24	24	83	CB around T-S line	0.0015	0.1	Standard	No Exceedance
G53D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/30/24	24	17	CI around median	0.0013	0.006	Standard	No Exceedance
G53D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/30/24	25	0	CI around mean	0.645	4.0	Standard	No Exceedance
G53D	UA	E004	Lead, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G53D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/30/24	24	58	CB around T-S line	0.0028	0.04	Standard	No Exceedance
G53D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G53D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/30/24	20	90	CB around T-S line	0.00118	0.1	Standard	No Exceedance
G53D	UA	E004	pH (field)	SU	12/03/15 - 01/30/24	25	0	CB around T-S line	6.3/6.5	6.0/9.0	Background/Standard	No Exceedance
G53D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/30/24	24	0	CI around mean	0.381	5	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G53D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G53D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	47.5	400	Standard	No Exceedance
G53D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G53D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	269	1,200	Standard	No Exceedance
G54D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G54D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/31/24	24	50	CB around T-S line	-0.000185	0.010	Standard	No Exceedance
G54D	UA	E004	Barium, total	mg/L	12/03/15 - 01/31/24	24	0	CB around T-S line	0.0607	2.0	Standard	No Exceedance
G54D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G54D	UA	E004	Boron, total	mg/L	12/03/15 - 01/31/24	25	0	CI around mean	0.471	2	Standard	No Exceedance
G54D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G54D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/31/24	25	4	CB around T-S line	15	200	Standard	No Exceedance
G54D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/31/24	24	67	CI around median	0.0015	0.1	Standard	No Exceedance
G54D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	0.00382	0.006	Standard	No Exceedance
G54D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/31/24	25	0	CB around linear reg	0.259	4.0	Standard	No Exceedance
G54D	UA	E004	Lead, total	mg/L	12/03/15 - 01/31/24	24	96	CI around median	0.001	0.0075	Standard	No Exceedance
G54D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/31/24	24	17	CB around linear reg	0.00191	0.04	Standard	No Exceedance
G54D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G54D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/31/24	20	95	CB around T-S line	0.00121	0.1	Standard	No Exceedance
G54D	UA	E004	pH (field)	SU	12/03/15 - 01/31/24	25	0	CI around mean	6.6/6.8	6.0/9.0	Background/Standard	No Exceedance
G54D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/31/24	24	0	CI around geomean	0.517	5	Standard	No Exceedance
G54D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/31/24	24	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G54D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/31/24	25	0	CB around linear reg	179	400	Standard	No Exceedance
G54D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G54D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/31/24	25	0	CI around mean	493	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

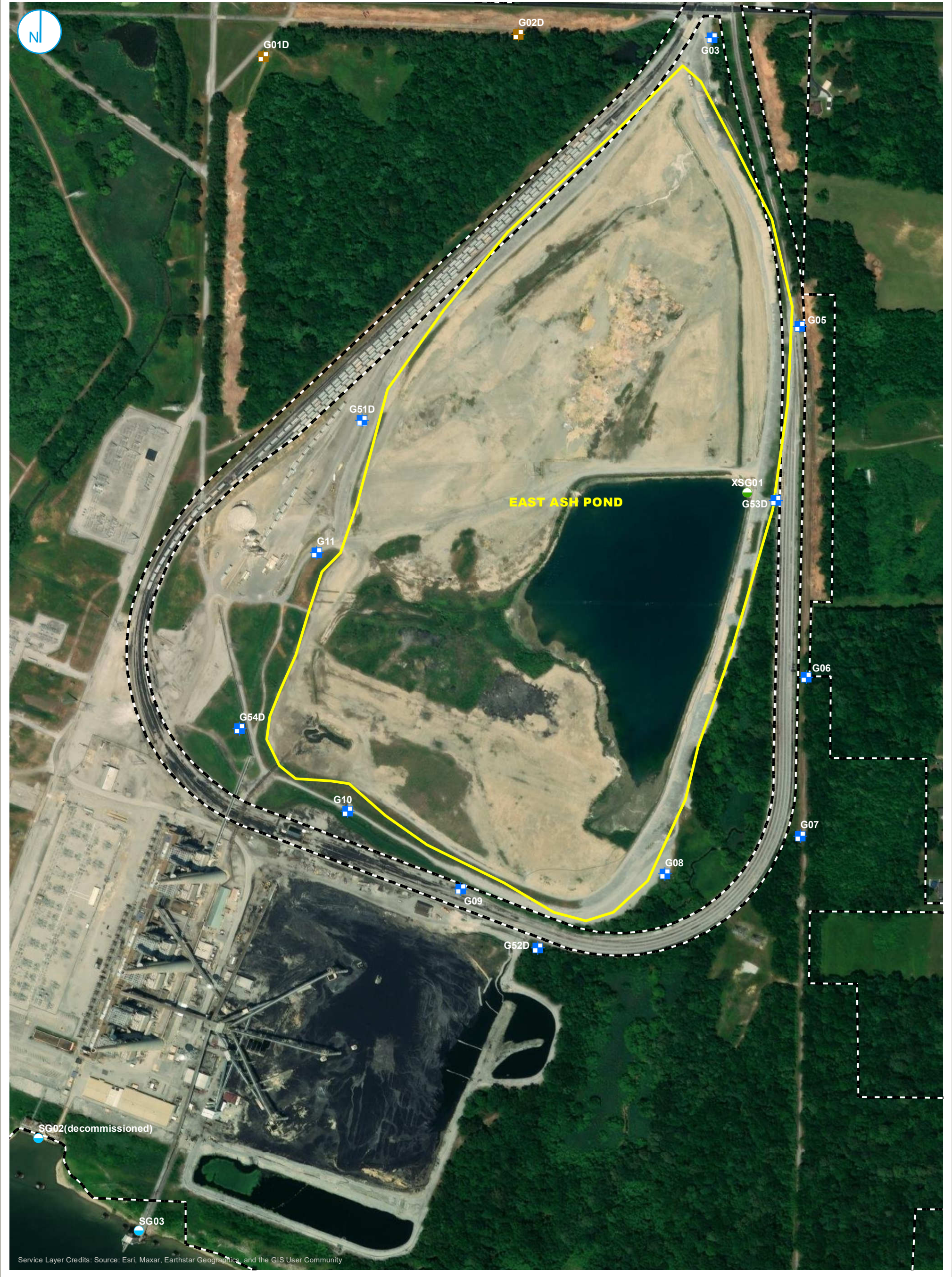
GWPS = Groundwater Protection Standard

GWPS Source:

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

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

FIGURES



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, RIVER
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

MONITORING WELL LOCATION MAP

FIGURE 1

EAST ASH POND
JOPPA POWER PLANT
JOPPA, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 1, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G01D	Background	01/29/2024	43.97	320.39
G02D	Background	01/29/2024	44.42	319.40
G03	Compliance	01/29/2024	39.51	318.53
G05	Compliance	01/29/2024	44.27	317.11
G06	Compliance	01/29/2024	41.70	313.71
G07	Compliance	01/29/2024	41.14	312.56
G08	Compliance	01/29/2024	31.45	312.26
G09	Compliance	01/29/2024	39.35	312.52
G10	Compliance	01/29/2024	39.65	314.01
G11	Compliance	01/29/2024	48.60	318.12
G51D	Compliance	01/29/2024	44.93	319.09
G52D	Compliance	01/29/2024	30.84	317.74
G53D	Compliance	01/29/2024	38.95	316.69
G54D	Compliance	01/29/2024	41.77	315.43
XSG01	Water Level	01/29/2024	Not Measured	
SG03	Water Level	01/29/2024	40.53	309.47

Notes:
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 1, 2024**

February 20, 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: JOP-24Q1

WorkOrder: 24010966

Dear Eric Bauer:

TEKLAB, INC received 22 samples for JOP_845_401 on 2/1/2024 3:40:00 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: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

This reporting package includes the following:

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Laboratory Results	7
Sample Summary	47
Quality Control Results	48
Receiving Check List	76
Chain of Custody	Appended

Definitions

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-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: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

Qualifiers

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



Case Narrative

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

Cooler Receipt Temp: 1.7 °C

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

XSG01 and YSG03 date/times of collection per SAR depth forms. Equipment Blanks 2 and 3 were not required due to sampling methods employed. EAH 2/2/24

Per Eric Bauer's request, only JOP_845_401 data is included in this report. EAH 2/20/24

Locations

Collinsville

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

Collinsville Air

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Springfield

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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

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Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-001
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G001D
Collection Date: 01/29/2024 13:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		44.51	ft	1	01/29/2024 13:12	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		17	NTU	1	01/29/2024 13:12	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		147	mV	1	01/29/2024 13:12	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		440	µS/cm	1	01/29/2024 13:12	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.0	°C	1	01/29/2024 13:12	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.10	mg/L	1	01/29/2024 13:12	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.45		1	01/29/2024 13:12	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		230	mg/L	1	02/01/2024 12:38	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 12:38	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		350	mg/L	5	02/01/2024 10:31	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		34	mg/L	1	02/02/2024 10:51	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.17	mg/L	1	02/01/2024 15:24	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		16	mg/L	1	02/02/2024 10:51	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		39.2	mg/L	1	02/05/2024 16:21	218158
Magnesium	NELAP	0.0055	0.0500		11.7	mg/L	1	02/05/2024 16:21	218158
Potassium	NELAP	0.0400	0.100		2.06	mg/L	1	02/05/2024 16:21	218158
Sodium	NELAP	0.0180	0.0500		75.1	mg/L	1	02/05/2024 16:21	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 21:42	218158
Arsenic	NELAP	0.0004	0.0010		0.0057	mg/L	5	02/05/2024 21:42	218158
Barium	NELAP	0.0007	0.0010		0.289	mg/L	5	02/05/2024 21:42	218158
Beryllium	NELAP	0.0002	0.0010	J	0.0008	mg/L	5	02/05/2024 21:42	218158
Boron	NELAP	0.011	0.025	J	0.016	mg/L	5	02/06/2024 15:48	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 21:42	218158
Chromium	NELAP	0.0008	0.0015		0.0213	mg/L	5	02/05/2024 21:42	218158
Cobalt	NELAP	0.0001	0.0010		0.0172	mg/L	5	02/05/2024 21:42	218158
Lead	NELAP	0.0006	0.0010		0.0100	mg/L	5	02/05/2024 21:42	218158
Lithium	*	0.0015	0.0030		0.0058	mg/L	5	02/05/2024 21:42	218158
Molybdenum	NELAP	0.0006	0.0015	J	0.0015	mg/L	5	02/09/2024 15:01	218158
Selenium	NELAP	0.0006	0.0010	J	0.0009	mg/L	5	02/05/2024 21:42	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 21:42	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-001
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G001D

Collection Date: 01/29/2024 13:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:10	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-002
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G002D
Collection Date: 01/29/2024 13:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		44.33	ft	1	01/29/2024 13:59	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.0	NTU	1	01/29/2024 13:59	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		151	mV	1	01/29/2024 13:59	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		337	µS/cm	1	01/29/2024 13:59	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.8	°C	1	01/29/2024 13:59	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.34	mg/L	1	01/29/2024 13:59	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.42		1	01/29/2024 13:59	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		140	mg/L	1	02/01/2024 12:43	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 12:43	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		230	mg/L	1	02/01/2024 10:32	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		15	mg/L	1	02/02/2024 10:59	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.19	mg/L	1	02/01/2024 15:26	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		22	mg/L	1	02/02/2024 10:59	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		37.0	mg/L	1	02/05/2024 16:22	218158
Magnesium	NELAP	0.0055	0.0500		10.3	mg/L	1	02/05/2024 16:22	218158
Potassium	NELAP	0.0400	0.100		1.11	mg/L	1	02/05/2024 16:22	218158
Sodium	NELAP	0.0180	0.0500		33.5	mg/L	1	02/05/2024 16:22	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 21:47	218158
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 21:47	218158
Barium	NELAP	0.0007	0.0010		0.207	mg/L	5	02/05/2024 21:47	218158
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 21:47	218158
Boron	NELAP	0.0108	0.0250		0.0323	mg/L	5	02/06/2024 15:53	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 21:47	218158
Chromium	NELAP	0.0008	0.0015	J	0.0010	mg/L	5	02/05/2024 21:47	218158
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	02/05/2024 21:47	218158
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 21:47	218158
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	02/05/2024 21:47	218158
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	02/05/2024 21:47	218158
Selenium	NELAP	0.0006	0.0010		0.0012	mg/L	5	02/05/2024 21:47	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 21:47	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-002
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G002D

Collection Date: 01/29/2024 13:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:13	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-003
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G003

Collection Date: 01/30/2024 10:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		37.95	ft	1	01/30/2024 10:05	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		340	NTU	1	01/30/2024 10:05	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		159	mV	1	01/30/2024 10:05	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		399	µS/cm	1	01/30/2024 10:05	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.2	°C	1	01/30/2024 10:05	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.90	mg/L	1	01/30/2024 10:05	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.28		1	01/30/2024 10:05	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		131	mg/L	1	02/01/2024 12:47	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 12:47	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		290	mg/L	5	02/01/2024 10:32	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		61	mg/L	5	02/05/2024 10:45	R342640
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.19	mg/L	1	02/01/2024 15:28	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		21	mg/L	1	02/02/2024 11:07	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	44.6	mg/L	1	02/05/2024 16:24	218158
Magnesium	NELAP	0.0055	0.0500		14.4	mg/L	1	02/05/2024 16:24	218158
Potassium	NELAP	0.0400	0.100		1.34	mg/L	1	02/05/2024 16:24	218158
Sodium	NELAP	0.0180	0.0500		33.6	mg/L	1	02/05/2024 16:24	218158
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 23:24	218158
Arsenic	NELAP	0.0004	0.0010		0.0034	mg/L	5	02/05/2024 23:24	218158
Barium	NELAP	0.0007	0.0010		0.0733	mg/L	5	02/05/2024 23:24	218158
Beryllium	NELAP	0.0002	0.0010	J	0.0007	mg/L	5	02/05/2024 23:24	218158
Boron	NELAP	0.0108	0.0250		0.227	mg/L	5	02/06/2024 16:27	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 23:24	218158
Chromium	NELAP	0.0008	0.0015		0.0132	mg/L	5	02/05/2024 23:24	218158
Cobalt	NELAP	0.0001	0.0010		0.0065	mg/L	5	02/05/2024 23:24	218158
Lead	NELAP	0.0006	0.0010		0.0033	mg/L	5	02/05/2024 23:24	218158
Lithium	*	0.0015	0.0030	J	0.0027	mg/L	5	02/05/2024 23:24	218158
Molybdenum	NELAP	0.0006	0.0015	J	0.0012	mg/L	5	02/05/2024 23:24	218158
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 23:24	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 23:24	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-003
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G003

Collection Date: 01/30/2024 10:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:15	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-004
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G005
Collection Date: 01/31/2024 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		43.95	ft	1	01/31/2024 12:12	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	01/31/2024 12:12	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		90	mV	1	01/31/2024 12:12	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		538	µS/cm	1	01/31/2024 12:12	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.4	°C	1	01/31/2024 12:12	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.29	mg/L	1	01/31/2024 12:12	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.41		1	01/31/2024 12:12	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		184	mg/L	1	02/01/2024 12:52	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 12:52	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		365	mg/L	2.5	02/01/2024 10:32	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		101	mg/L	10	02/02/2024 11:37	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.35	mg/L	1	02/01/2024 15:29	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		21	mg/L	1	02/02/2024 11:31	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		53.9	mg/L	1	02/05/2024 16:29	218158
Magnesium	NELAP	0.0055	0.0500		18.6	mg/L	1	02/05/2024 16:29	218158
Potassium	NELAP	0.0400	0.100		1.82	mg/L	1	02/05/2024 16:29	218158
Sodium	NELAP	0.0180	0.0500		43.4	mg/L	1	02/05/2024 16:29	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 21:53	218158
Arsenic	NELAP	0.0004	0.0010		0.0014	mg/L	5	02/05/2024 21:53	218158
Barium	NELAP	0.0007	0.0010		0.189	mg/L	5	02/05/2024 21:53	218158
Beryllium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	02/05/2024 21:53	218158
Boron	NELAP	0.0108	0.0250		0.0453	mg/L	5	02/06/2024 15:59	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 21:53	218158
Chromium	NELAP	0.0008	0.0015		0.0084	mg/L	5	02/05/2024 21:53	218158
Cobalt	NELAP	0.0001	0.0010		0.0030	mg/L	5	02/05/2024 21:53	218158
Lead	NELAP	0.0006	0.0010		0.0033	mg/L	5	02/05/2024 21:53	218158
Lithium	*	0.0015	0.0030		0.0036	mg/L	5	02/05/2024 21:53	218158
Molybdenum	NELAP	0.0006	0.0015		0.0050	mg/L	5	02/05/2024 21:53	218158
Selenium	NELAP	0.0006	0.0010		0.0012	mg/L	5	02/06/2024 15:59	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 21:53	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-004
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G005
Collection Date: 01/31/2024 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:17	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-005
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G006

Collection Date: 01/30/2024 12:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		40.66	ft	1	01/30/2024 12:28	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		280	NTU	1	01/30/2024 12:28	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		150	mV	1	01/30/2024 12:28	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		573	µS/cm	1	01/30/2024 12:28	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		13.5	°C	1	01/30/2024 12:28	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.25	mg/L	1	01/30/2024 12:28	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.56		1	01/30/2024 12:28	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		132	mg/L	1	02/01/2024 12:56	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 12:56	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		380	mg/L	5	02/01/2024 10:33	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		191	mg/L	10	02/02/2024 11:45	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.23	mg/L	1	02/01/2024 15:32	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		21	mg/L	1	02/02/2024 11:39	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		89.8	mg/L	1	02/05/2024 16:30	218158
Magnesium	NELAP	0.0055	0.0500		25.1	mg/L	1	02/05/2024 16:30	218158
Potassium	NELAP	0.0400	0.100		3.20	mg/L	1	02/05/2024 16:30	218158
Sodium	NELAP	0.0180	0.0500		44.4	mg/L	1	02/05/2024 16:30	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	02/05/2024 21:59	218158
Arsenic	NELAP	0.0004	0.0010		0.0116	mg/L	5	02/05/2024 21:59	218158
Barium	NELAP	0.0007	0.0010		0.136	mg/L	5	02/05/2024 21:59	218158
Beryllium	NELAP	0.0002	0.0010		0.0017	mg/L	5	02/05/2024 21:59	218158
Boron	NELAP	0.0108	0.0250		2.47	mg/L	5	02/06/2024 16:04	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 21:59	218158
Chromium	NELAP	0.0008	0.0015		0.0488	mg/L	5	02/05/2024 21:59	218158
Cobalt	NELAP	0.0001	0.0010		0.0151	mg/L	5	02/05/2024 21:59	218158
Lead	NELAP	0.0006	0.0010		0.0160	mg/L	5	02/05/2024 21:59	218158
Lithium	*	0.0015	0.0030		0.0112	mg/L	5	02/05/2024 21:59	218158
Molybdenum	NELAP	0.0006	0.0015		0.0023	mg/L	5	02/05/2024 21:59	218158
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 21:59	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 21:59	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-005
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G006

Collection Date: 01/30/2024 12:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/13/2024 11:39	218639



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-006
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G007
Collection Date: 01/30/2024 11:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		40.70	ft	1	01/30/2024 11:17	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		280	NTU	1	01/30/2024 11:17	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		156	mV	1	01/30/2024 11:17	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		710	µS/cm	1	01/30/2024 11:17	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.3	°C	1	01/30/2024 11:17	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.97	mg/L	1	01/30/2024 11:17	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.33		1	01/30/2024 11:17	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		165	mg/L	1	02/01/2024 13:01	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:01	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		650	mg/L	5	02/01/2024 11:06	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		293	mg/L	10	02/02/2024 11:53	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.38	mg/L	1	02/01/2024 15:33	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		22	mg/L	1	02/02/2024 11:47	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		99.2	mg/L	1	02/05/2024 16:32	218158
Magnesium	NELAP	0.0055	0.0500		24.7	mg/L	1	02/05/2024 16:32	218158
Potassium	NELAP	0.0400	0.100		4.29	mg/L	1	02/05/2024 16:32	218158
Sodium	NELAP	0.0180	0.0500		66.9	mg/L	1	02/05/2024 16:32	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 22:45	218158
Arsenic	NELAP	0.0004	0.0010		0.0054	mg/L	5	02/05/2024 22:45	218158
Barium	NELAP	0.0007	0.0010		0.182	mg/L	5	02/05/2024 22:45	218158
Beryllium	NELAP	0.0002	0.0010	J	0.0010	mg/L	5	02/05/2024 22:45	218158
Boron	NELAP	0.0108	0.0250		3.93	mg/L	5	02/06/2024 16:10	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 22:45	218158
Chromium	NELAP	0.0008	0.0015		0.0284	mg/L	5	02/05/2024 22:45	218158
Cobalt	NELAP	0.0001	0.0010		0.0052	mg/L	5	02/07/2024 21:38	218158
Lead	NELAP	0.0006	0.0010		0.0054	mg/L	5	02/05/2024 22:45	218158
Lithium	*	0.0015	0.0030		0.0063	mg/L	5	02/05/2024 22:45	218158
Molybdenum	NELAP	0.0006	0.0015		0.0019	mg/L	5	02/09/2024 15:06	218158
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 22:45	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 22:45	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-006
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G007

Collection Date: 01/30/2024 11:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:27	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-007
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G008
Collection Date: 01/30/2024 14:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		30.82	ft	1	01/30/2024 14:06	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		160	NTU	1	01/30/2024 14:06	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		137	mV	1	01/30/2024 14:06	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		735	µS/cm	1	01/30/2024 14:06	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.6	°C	1	01/30/2024 14:06	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.77	mg/L	1	01/30/2024 14:06	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.94		1	01/30/2024 14:06	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		166	mg/L	1	02/01/2024 13:06	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:06	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		670	mg/L	5	02/01/2024 11:06	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		334	mg/L	10	02/02/2024 12:00	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.26	mg/L	1	02/01/2024 15:44	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		14	mg/L	1	02/02/2024 11:55	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		134	mg/L	1	02/05/2024 16:34	218158
Magnesium	NELAP	0.0055	0.0500		32.7	mg/L	1	02/05/2024 16:34	218158
Potassium	NELAP	0.0400	0.100		1.86	mg/L	1	02/05/2024 16:34	218158
Sodium	NELAP	0.0180	0.0500		39.2	mg/L	1	02/05/2024 16:34	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 22:50	218158
Arsenic	NELAP	0.0004	0.0010		0.0183	mg/L	5	02/05/2024 22:50	218158
Barium	NELAP	0.0007	0.0010		0.142	mg/L	5	02/05/2024 22:50	218158
Beryllium	NELAP	0.0002	0.0010	J	0.0007	mg/L	5	02/05/2024 22:50	218158
Boron	NELAP	0.0108	0.0250		4.61	mg/L	5	02/06/2024 16:16	218158
Cadmium	NELAP	0.0002	0.0010	J	0.0010	mg/L	5	02/05/2024 22:50	218158
Chromium	NELAP	0.0008	0.0015		0.0153	mg/L	5	02/05/2024 22:50	218158
Cobalt	NELAP	0.0001	0.0010		0.0126	mg/L	5	02/05/2024 22:50	218158
Lead	NELAP	0.0006	0.0010		0.0051	mg/L	5	02/05/2024 22:50	218158
Lithium	*	0.0015	0.0030		0.0041	mg/L	5	02/05/2024 22:50	218158
Molybdenum	NELAP	0.0006	0.0015		0.0029	mg/L	5	02/05/2024 22:50	218158
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 22:50	218158
Thallium	NELAP	0.0010	0.0020	J	0.0013	mg/L	5	02/05/2024 22:50	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-007
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G008

Collection Date: 01/30/2024 14:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:35	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-008
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G009
Collection Date: 02/01/2024 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		37.64	ft	1	02/01/2024 10:35	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		350	NTU	1	02/01/2024 10:35	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		161	mV	1	02/01/2024 10:35	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		594	µS/cm	1	02/01/2024 10:35	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.0	°C	1	02/01/2024 10:35	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.48	mg/L	1	02/01/2024 10:35	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.03		1	02/01/2024 10:35	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		109	mg/L	1	02/02/2024 12:57	R342573
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/02/2024 12:57	R342573
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		580	mg/L	5	02/02/2024 12:23	R342621
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		234	mg/L	10	02/05/2024 12:50	R342640
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.25	mg/L	1	02/02/2024 13:15	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		17	mg/L	1	02/05/2024 12:45	R342647
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		60.8	mg/L	1	02/05/2024 10:05	218215
Magnesium	NELAP	0.0055	0.0500		25.1	mg/L	1	02/05/2024 10:05	218215
Potassium	NELAP	0.0400	0.100		1.30	mg/L	1	02/05/2024 8:44	218215
Sodium	NELAP	0.0180	0.0500		55.1	mg/L	1	02/05/2024 8:44	218215
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0007	mg/L	5	02/05/2024 20:10	218215
Arsenic	NELAP	0.0004	0.0010		0.0140	mg/L	5	02/05/2024 20:10	218215
Barium	NELAP	0.0007	0.0010		0.0942	mg/L	5	02/05/2024 20:10	218215
Beryllium	NELAP	0.0002	0.0010		0.0033	mg/L	5	02/05/2024 20:10	218215
Boron	NELAP	0.0092	0.0250		2.95	mg/L	5	02/06/2024 13:13	218215
Cadmium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	02/05/2024 20:10	218215
Chromium	NELAP	0.0008	0.0015		0.0298	mg/L	5	02/05/2024 20:10	218215
Cobalt	NELAP	0.0001	0.0010		0.0092	mg/L	5	02/05/2024 20:10	218215
Lead	NELAP	0.0006	0.0010		0.0084	mg/L	5	02/05/2024 20:10	218215
Lithium	*	0.0015	0.0030		0.0059	mg/L	5	02/05/2024 20:10	218215
Molybdenum	NELAP	0.0006	0.0015	J	0.0013	mg/L	5	02/05/2024 20:10	218215
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 20:10	218215
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 20:10	218215



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-008
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G009

Collection Date: 02/01/2024 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/05/2024 15:28	218217



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-009
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G010
Collection Date: 01/30/2024 15:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		38.75	ft	1	01/30/2024 15:07	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		310	NTU	1	01/30/2024 15:07	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		158	mV	1	01/30/2024 15:07	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		816	µS/cm	1	01/30/2024 15:07	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.1	°C	1	01/30/2024 15:07	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.23	mg/L	1	01/30/2024 15:07	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.37		1	01/30/2024 15:07	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		255	mg/L	1	02/01/2024 13:12	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:12	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		780	mg/L	5	02/01/2024 11:07	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		272	mg/L	10	02/02/2024 12:08	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.87	mg/L	1	02/01/2024 15:46	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		21	mg/L	1	02/02/2024 12:03	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		102	mg/L	1	02/05/2024 16:43	218158
Magnesium	NELAP	0.0055	0.0500		32.5	mg/L	1	02/05/2024 16:43	218158
Potassium	NELAP	0.400	1.00		14.5	mg/L	10	02/06/2024 10:35	218158
Sodium	NELAP	0.0180	0.0500		85.0	mg/L	1	02/05/2024 16:43	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 22:56	218158
Arsenic	NELAP	0.0004	0.0010		0.0156	mg/L	5	02/05/2024 22:56	218158
Barium	NELAP	0.0007	0.0010		0.128	mg/L	5	02/05/2024 22:56	218158
Beryllium	NELAP	0.0002	0.0010		0.0025	mg/L	5	02/05/2024 22:56	218158
Boron	NELAP	0.0108	0.0250		1.16	mg/L	5	02/06/2024 16:21	218158
Cadmium	NELAP	0.0002	0.0010	J	0.0002	mg/L	5	02/05/2024 22:56	218158
Chromium	NELAP	0.0008	0.0015		0.0511	mg/L	5	02/05/2024 22:56	218158
Cobalt	NELAP	0.0001	0.0010		0.0114	mg/L	5	02/05/2024 22:56	218158
Lead	NELAP	0.0006	0.0010		0.0102	mg/L	5	02/05/2024 22:56	218158
Lithium	*	0.0015	0.0030		0.0256	mg/L	5	02/05/2024 22:56	218158
Molybdenum	NELAP	0.0006	0.0015		0.0062	mg/L	5	02/09/2024 15:12	218158
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 22:56	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 22:56	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-009
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G010
Collection Date: 01/30/2024 15:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/02/2024 9:38	218173



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-010
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G011

Collection Date: 01/30/2024 14:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		47.38	ft	1	01/30/2024 14:08	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		180	NTU	1	01/30/2024 14:08	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		127	mV	1	01/30/2024 14:08	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		558	µS/cm	1	01/30/2024 14:08	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.6	°C	1	01/30/2024 14:08	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.38	mg/L	1	01/30/2024 14:08	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		5.97		1	01/30/2024 14:08	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		94	mg/L	1	02/01/2024 13:16	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:16	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		400	mg/L	2.5	02/01/2024 11:07	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		176	mg/L	10	02/02/2024 12:33	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.18	mg/L	1	02/01/2024 15:48	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		25	mg/L	1	02/02/2024 12:27	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		61.9	mg/L	1	02/05/2024 16:44	218158
Magnesium	NELAP	0.0055	0.0500		20.3	mg/L	1	02/05/2024 16:44	218158
Potassium	NELAP	0.0400	0.100		1.78	mg/L	1	02/05/2024 16:44	218158
Sodium	NELAP	0.0180	0.0500		44.6	mg/L	1	02/05/2024 16:44	218158
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 23:02	218158
Arsenic	NELAP	0.0004	0.0010		0.0016	mg/L	5	02/05/2024 23:02	218158
Barium	NELAP	0.0007	0.0010		0.0656	mg/L	5	02/05/2024 23:02	218158
Beryllium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	02/05/2024 23:02	218158
Boron	NELAP	0.0108	0.0250		0.243	mg/L	5	02/06/2024 17:08	218158
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 23:02	218158
Chromium	NELAP	0.0008	0.0015		0.0066	mg/L	5	02/05/2024 23:02	218158
Cobalt	NELAP	0.0001	0.0010		0.0078	mg/L	5	02/05/2024 23:02	218158
Lead	NELAP	0.0006	0.0010		0.0015	mg/L	5	02/05/2024 23:02	218158
Lithium	*	0.0015	0.0030		0.0040	mg/L	5	02/05/2024 23:02	218158
Molybdenum	NELAP	0.0006	0.0015	J	0.0009	mg/L	5	02/05/2024 23:02	218158
Selenium	NELAP	0.0006	0.0010		0.0017	mg/L	5	02/05/2024 23:02	218158
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 23:02	218158



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-010
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G011
Collection Date: 01/30/2024 14:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 10:35	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-027
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G051D

Collection Date: 01/30/2024 11:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		44.36	ft	1	01/30/2024 11:12	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		54	NTU	1	01/30/2024 11:12	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		188	mV	1	01/30/2024 11:12	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		341	µS/cm	1	01/30/2024 11:12	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.6	°C	1	01/30/2024 11:12	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.54	mg/L	1	01/30/2024 11:12	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		5.49		1	01/30/2024 11:12	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		50	mg/L	1	02/01/2024 13:43	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:43	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		325	mg/L	2.5	02/01/2024 11:21	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		121	mg/L	10	02/02/2024 14:56	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	0.08	mg/L	1	02/02/2024 11:26	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		4	mg/L	1	02/02/2024 14:51	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		28.3	mg/L	1	02/02/2024 9:52	218159
Magnesium	NELAP	0.0055	0.0500		12.1	mg/L	1	02/02/2024 9:52	218159
Potassium	NELAP	0.0400	0.100		0.414	mg/L	1	02/02/2024 9:52	218159
Sodium	NELAP	0.0180	0.0500	S	33.0	mg/L	1	02/02/2024 9:52	218159
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 19:13	218159
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 19:13	218159
Barium	NELAP	0.0007	0.0010		0.0346	mg/L	5	02/06/2024 19:13	218159
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 19:13	218159
Boron	NELAP	0.0092	0.0250		0.704	mg/L	5	02/06/2024 19:13	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 19:13	218159
Chromium	NELAP	0.0007	0.0015		0.0021	mg/L	5	02/07/2024 23:15	218159
Cobalt	NELAP	0.0001	0.0010		0.0012	mg/L	5	02/08/2024 18:33	218159
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 19:13	218159
Lithium	*	0.0015	0.0030		0.0054	mg/L	5	02/06/2024 19:13	218159
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	02/09/2024 17:04	218159
Selenium	NELAP	0.0006	0.0010		0.0049	mg/L	5	02/06/2024 19:13	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 19:13	218159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-027
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G051D
Collection Date: 01/30/2024 11:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:19	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-028
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G052D
Collection Date: 01/31/2024 9:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		29.74	ft	1	01/31/2024 9:08	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.5	NTU	1	01/31/2024 9:08	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-56	mV	1	01/31/2024 9:08	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		368	µS/cm	1	01/31/2024 9:08	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		11.8	°C	1	01/31/2024 9:08	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.51	mg/L	1	01/31/2024 9:08	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.30		1	01/31/2024 9:08	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		151	mg/L	1	02/01/2024 10:59	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 10:59	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		296	mg/L	1	02/02/2024 10:58	R342621
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		45	mg/L	1	02/02/2024 15:15	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.25	mg/L	1	02/02/2024 12:27	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		11	mg/L	1	02/02/2024 15:15	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		43.0	mg/L	1	02/02/2024 9:57	218159
Magnesium	NELAP	0.0055	0.0500		13.8	mg/L	1	02/02/2024 9:57	218159
Potassium	NELAP	0.0400	0.100		0.666	mg/L	1	02/02/2024 9:57	218159
Sodium	NELAP	0.0180	0.0500		25.9	mg/L	1	02/02/2024 9:57	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 2:46	218159
Arsenic	NELAP	0.0004	0.0010		0.0013	mg/L	5	02/06/2024 2:46	218159
Barium	NELAP	0.0007	0.0010		0.213	mg/L	5	02/06/2024 2:46	218159
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 2:46	218159
Boron	NELAP	0.0092	0.025	J	0.019	mg/L	5	02/06/2024 2:46	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 2:46	218159
Chromium	NELAP	0.0008	0.0015		< 0.0015	mg/L	5	02/06/2024 2:46	218159
Cobalt	NELAP	0.0001	0.0010		0.0034	mg/L	5	02/06/2024 2:46	218159
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 2:46	218159
Lithium	*	0.0015	0.0030	J	0.0024	mg/L	5	02/06/2024 2:46	218159
Molybdenum	NELAP	0.0006	0.0015	J	0.0008	mg/L	5	02/06/2024 2:46	218159
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 2:46	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 19:59	218159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-028
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G052D
Collection Date: 01/31/2024 9:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:40	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-029
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G053D
Collection Date: 01/30/2024 12:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		38.46	ft	1	01/30/2024 12:52	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		7.1	NTU	1	01/30/2024 12:52	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		150	mV	1	01/30/2024 12:52	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		396	µS/cm	1	01/30/2024 12:52	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.0	°C	1	01/30/2024 12:52	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.78	mg/L	1	01/30/2024 12:52	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.49		1	01/30/2024 12:52	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		164	mg/L	1	02/01/2024 13:46	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:46	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		325	mg/L	2.5	02/01/2024 11:42	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		70	mg/L	5	02/05/2024 10:56	R342640
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.65	mg/L	1	02/02/2024 11:29	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		18	mg/L	1	02/02/2024 15:23	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		37.5	mg/L	1	02/02/2024 9:59	218159
Magnesium	NELAP	0.0055	0.0500		16.6	mg/L	1	02/02/2024 9:59	218159
Potassium	NELAP	0.0400	0.100		0.418	mg/L	1	02/02/2024 9:59	218159
Sodium	NELAP	0.0180	0.0500		48.3	mg/L	1	02/02/2024 9:59	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 2:52	218159
Arsenic	NELAP	0.0004	0.0010	J	0.0008	mg/L	5	02/06/2024 2:52	218159
Barium	NELAP	0.0007	0.0010		0.110	mg/L	5	02/06/2024 2:52	218159
Beryllium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	02/06/2024 2:52	218159
Boron	NELAP	0.0092	0.0250		0.427	mg/L	5	02/06/2024 2:52	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 2:52	218159
Chromium	NELAP	0.0007	0.0015		0.0025	mg/L	5	02/07/2024 23:04	218159
Cobalt	NELAP	0.0001	0.0010		0.0028	mg/L	5	02/06/2024 2:52	218159
Lead	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	02/06/2024 2:52	218159
Lithium	*	0.0015	0.0030	J	0.0019	mg/L	5	02/06/2024 2:52	218159
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	02/06/2024 2:52	218159
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 2:52	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 20:05	218159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-029
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G053D

Collection Date: 01/30/2024 12:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:43	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-030
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G054D
Collection Date: 01/31/2024 11:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		39.58	ft	1	01/31/2024 11:11	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.9	NTU	1	01/31/2024 11:11	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		18	mV	1	01/31/2024 11:11	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		688	µS/cm	1	01/31/2024 11:11	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.7	°C	1	01/31/2024 11:11	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.73	mg/L	1	01/31/2024 11:11	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.48		1	01/31/2024 11:11	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		211	mg/L	1	02/01/2024 11:03	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 11:03	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		530	mg/L	2.5	02/02/2024 11:10	R342621
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		197	mg/L	10	02/02/2024 15:36	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.27	mg/L	1	02/02/2024 12:29	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		21	mg/L	1	02/02/2024 15:31	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		93.3	mg/L	1	02/02/2024 10:00	218159
Magnesium	NELAP	0.0055	0.0500		28.9	mg/L	1	02/02/2024 10:00	218159
Potassium	NELAP	0.0400	0.100		1.29	mg/L	1	02/02/2024 10:00	218159
Sodium	NELAP	0.0180	0.0500		49.7	mg/L	1	02/02/2024 10:00	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 2:58	218159
Arsenic	NELAP	0.0004	0.0010	J	0.0007	mg/L	5	02/06/2024 2:58	218159
Barium	NELAP	0.0007	0.0010		0.0704	mg/L	5	02/06/2024 2:58	218159
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 2:58	218159
Boron	NELAP	0.0092	0.0250		0.804	mg/L	5	02/06/2024 2:58	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 2:58	218159
Chromium	NELAP	0.0008	0.0015	J	0.0011	mg/L	5	02/06/2024 2:58	218159
Cobalt	NELAP	0.0001	0.0010		0.0104	mg/L	5	02/06/2024 2:58	218159
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 2:58	218159
Lithium	*	0.0015	0.0030		0.0037	mg/L	5	02/06/2024 2:58	218159
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	02/06/2024 2:58	218159
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 2:58	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 20:10	218159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-030
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24

Client Sample ID: G054D

Collection Date: 01/31/2024 11:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:45	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-037
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XPW01_pore
Collection Date: 01/30/2024 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		2.16	ft	1	01/30/2024 12:14	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.8	NTU	1	01/30/2024 12:14	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-31	mV	1	01/30/2024 12:14	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		800	µS/cm	1	01/30/2024 12:14	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	01/30/2024 12:14	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.43	mg/L	1	01/30/2024 12:14	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		8.44		1	01/30/2024 12:14	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		103	mg/L	1	02/01/2024 13:50	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		20	mg/L	1	02/01/2024 13:50	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		715	mg/L	2.5	02/01/2024 11:43	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		359	mg/L	10	02/02/2024 17:01	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.27	mg/L	1	02/02/2024 11:31	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		19	mg/L	1	02/02/2024 16:43	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		169	mg/L	1	02/02/2024 12:07	218159
Magnesium	NELAP	0.0055	0.0500		0.414	mg/L	1	02/02/2024 12:07	218159
Potassium	NELAP	0.400	1.00		37.3	mg/L	10	02/05/2024 13:24	218159
Sodium	NELAP	0.0180	0.0500		26.9	mg/L	1	02/02/2024 12:07	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 4:12	218159
Arsenic	NELAP	0.0004	0.0010		0.0292	mg/L	5	02/06/2024 4:12	218159
Barium	NELAP	0.0007	0.0010		0.114	mg/L	5	02/06/2024 4:12	218159
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 4:12	218159
Boron	NELAP	0.0092	0.0250		10.3	mg/L	5	02/06/2024 4:12	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 4:12	218159
Chromium	NELAP	0.0008	0.0015	J	0.0011	mg/L	5	02/06/2024 4:12	218159
Cobalt	NELAP	0.0001	0.0010	J	0.0002	mg/L	5	02/06/2024 4:12	218159
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 4:12	218159
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	02/06/2024 4:12	218159
Molybdenum	NELAP	0.0006	0.0015		0.291	mg/L	5	02/06/2024 4:12	218159
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 4:12	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 20:44	218159

Sample result(s) exceed 10 times the CCB. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-037
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XPW01_pore
Collection Date: 01/30/2024 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:47	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-038
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XPW02_pore
Collection Date: 01/29/2024 14:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		2.13	ft	1	01/29/2024 14:51	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		13	NTU	1	01/29/2024 14:51	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-55	mV	1	01/29/2024 14:51	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		4120	µS/cm	1	01/29/2024 14:51	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.3	°C	1	01/29/2024 14:51	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.48	mg/L	1	01/29/2024 14:51	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		7.72		1	01/29/2024 14:51	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		121	mg/L	1	02/01/2024 11:30	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 11:30	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		4460	mg/L	2.5	02/01/2024 13:17	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		2760	mg/L	100	02/05/2024 11:15	R342640
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.74	mg/L	1	02/02/2024 11:33	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		104	mg/L	10	02/02/2024 17:17	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		467	mg/L	1	02/02/2024 12:08	218159
Magnesium	NELAP	0.0055	0.0500		7.83	mg/L	1	02/02/2024 12:08	218159
Potassium	NELAP	0.400	1.00		26.0	mg/L	10	02/05/2024 13:26	218159
Sodium	NELAP	0.180	0.500		909	mg/L	10	02/05/2024 13:26	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 4:18	218159
Arsenic	NELAP	0.0004	0.0010		0.0482	mg/L	5	02/06/2024 4:18	218159
Barium	NELAP	0.0007	0.0010		0.0272	mg/L	5	02/06/2024 4:18	218159
Beryllium	NELAP	0.0002	0.0010	J	0.0004	mg/L	5	02/06/2024 4:18	218159
Boron	NELAP	0.0092	0.0250		17.1	mg/L	5	02/06/2024 4:18	218159
Cadmium	NELAP	0.0002	0.0010	J	0.0005	mg/L	5	02/06/2024 4:18	218159
Chromium	NELAP	0.0008	0.0015		0.0020	mg/L	5	02/06/2024 4:18	218159
Cobalt	NELAP	0.0001	0.0010	J	0.0006	mg/L	5	02/06/2024 4:18	218159
Lead	NELAP	0.0006	0.0010		0.0019	mg/L	5	02/06/2024 4:18	218159
Lithium	*	0.0015	0.0030		0.0770	mg/L	5	02/06/2024 4:18	218159
Molybdenum	NELAP	0.0024	0.0060		1.48	mg/L	20	02/09/2024 16:32	218159
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 4:18	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 21:55	218159

Sample result(s) exceed 10 times the CCB. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-038
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XPW02_pore
Collection Date: 01/29/2024 14:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:50	218175



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-039
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XPW03_pore
Collection Date: 01/30/2024 13:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		12.97	ft	1	01/30/2024 13:02	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.4	NTU	1	01/30/2024 13:02	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		2	mV	1	01/30/2024 13:02	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		584	µS/cm	1	01/30/2024 13:02	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.3	°C	1	01/30/2024 13:02	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.87	mg/L	1	01/30/2024 13:02	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		10.8		1	01/30/2024 13:02	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 13:56	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		76	mg/L	1	02/01/2024 13:56	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		394	mg/L	1	02/01/2024 11:43	R342567
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		142	mg/L	10	02/02/2024 17:33	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.28	mg/L	1	02/02/2024 11:35	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		25	mg/L	1	02/02/2024 17:28	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		11.0	mg/L	1	02/02/2024 12:10	218159
Magnesium	NELAP	0.0055	0.050	J	0.0062	mg/L	1	02/02/2024 12:10	218159
Potassium	NELAP	0.400	1.00		25.8	mg/L	10	02/05/2024 13:27	218159
Sodium	NELAP	0.0180	0.0500		97.4	mg/L	1	02/02/2024 12:10	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		0.0090	mg/L	5	02/06/2024 4:24	218159
Arsenic	NELAP	0.0004	0.0010		0.502	mg/L	5	02/06/2024 4:24	218159
Barium	NELAP	0.0007	0.0010		0.0101	mg/L	5	02/06/2024 4:24	218159
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 4:24	218159
Boron	NELAP	0.0092	0.0250		7.97	mg/L	5	02/06/2024 4:24	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 4:24	218159
Chromium	NELAP	0.0008	0.0015	J	0.0010	mg/L	5	02/06/2024 4:24	218159
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	02/06/2024 4:24	218159
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 4:24	218159
Lithium	*	0.0015	0.0030		0.152	mg/L	5	02/06/2024 4:24	218159
Molybdenum	NELAP	0.0006	0.0015		0.235	mg/L	5	02/06/2024 4:24	218159
Selenium	NELAP	0.0006	0.0010		0.0308	mg/L	5	02/06/2024 4:24	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 22:00	218159

Sample result(s) exceed 10 times the CCB. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-039
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XPW03_pore
Collection Date: 01/30/2024 13:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 11:59	218176



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-040
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: XSG01
Collection Date: 01/29/2024 14:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		See Comment	ft	1	01/29/2024 14:51	R342623
Water below bottom of measurement staff.									



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-041
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: YSG03
Collection Date: 01/29/2024 11:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		40.53	ft	1	01/29/2024 11:52	R342623



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-042
Matrix: AQUEOUS

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: Field Blank
Collection Date: 02/01/2024 11:42

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		0	mg/L	1	02/02/2024 13:19	R342573
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/02/2024 13:19	R342573
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	02/02/2024 12:22	R342621
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		< 10	mg/L	1	02/05/2024 13:41	R342640
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	02/02/2024 12:56	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		< 4	mg/L	1	02/05/2024 13:41	R342647
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		< 0.100	mg/L	1	02/05/2024 9:01	218215
Magnesium	NELAP	0.0055	0.0500		< 0.0500	mg/L	1	02/05/2024 9:01	218215
Potassium	NELAP	0.0400	0.100		< 0.100	mg/L	1	02/05/2024 9:01	218215
Sodium	NELAP	0.018	0.050	J	0.022	mg/L	1	02/05/2024 9:01	218215
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Barium	NELAP	0.0007	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Boron	NELAP	0.0092	0.025	J	0.014	mg/L	5	02/06/2024 13:36	218215
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Chromium	NELAP	0.0008	0.0015	J	0.0009	mg/L	5	02/05/2024 20:33	218215
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	02/05/2024 20:33	218215
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	02/05/2024 20:33	218215
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/05/2024 20:33	218215
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/05/2024 20:33	218215
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/05/2024 15:49	218217



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-043
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G052D Duplicate
Collection Date: 01/31/2024 9:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		29.74	ft	1	01/31/2024 9:08	R342623
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.5	NTU	1	01/31/2024 9:08	R342623
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-56	mV	1	01/31/2024 9:08	R342623
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		368	µS/cm	1	01/31/2024 9:08	R342623
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		11.8	°C	1	01/31/2024 9:08	R342623
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.51	mg/L	1	01/31/2024 9:08	R342623
SW-846 9040B FIELD									
pH	*	0	1.00		6.30		1	01/31/2024 9:08	R342623
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		156	mg/L	1	02/01/2024 11:35	R342461
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/01/2024 11:35	R342461
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		290	mg/L	1	02/02/2024 11:23	R342621
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		45	mg/L	1	02/02/2024 17:36	R342591
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.25	mg/L	1	02/02/2024 12:54	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		11	mg/L	1	02/02/2024 17:36	R342603
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		45.3	mg/L	1	02/02/2024 12:11	218159
Magnesium	NELAP	0.0055	0.0500		13.7	mg/L	1	02/02/2024 12:11	218159
Potassium	NELAP	0.0400	0.100		0.636	mg/L	1	02/02/2024 12:11	218159
Sodium	NELAP	0.0180	0.0500		25.0	mg/L	1	02/02/2024 12:11	218159
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 4:29	218159
Arsenic	NELAP	0.0004	0.0010		0.0013	mg/L	5	02/06/2024 22:06	218159
Barium	NELAP	0.0007	0.0010		0.222	mg/L	5	02/06/2024 4:29	218159
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 4:29	218159
Boron	NELAP	0.0092	0.0250		0.102	mg/L	5	02/06/2024 4:29	218159
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 4:29	218159
Chromium	NELAP	0.0008	0.0015	J	0.0015	mg/L	5	02/06/2024 4:29	218159
Cobalt	NELAP	0.0001	0.0010		0.0043	mg/L	5	02/08/2024 18:22	218159
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 4:29	218159
Lithium	*	0.0015	0.0030	J	0.0027	mg/L	5	02/06/2024 4:29	218159
Molybdenum	NELAP	0.0006	0.0015		0.0019	mg/L	5	02/06/2024 22:06	218159
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 4:29	218159
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 22:06	218159

Sample result(s) exceed 10 times the CCB. Data is reportable per the TNI Standard.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-043
Matrix: GROUNDWATER

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: G052D Duplicate
Collection Date: 01/31/2024 9:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		< 0.00020	mg/L	1	02/02/2024 12:02	218176



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010966-045
Matrix: AQUEOUS

Work Order: 24010966
Report Date: 20-Feb-24
Client Sample ID: Equipment Blank 1
Collection Date: 02/01/2024 12:00

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		1	mg/L	1	02/02/2024 13:27	R342573
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	02/02/2024 13:27	R342573
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	02/02/2024 12:21	R342621
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		< 10	mg/L	1	02/05/2024 13:52	R342640
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	02/02/2024 13:12	R342565
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	1	mg/L	1	02/05/2024 13:52	R342647
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.10	J	0.057	mg/L	1	02/05/2024 9:03	218215
Magnesium	NELAP	0.0055	0.050	J	0.015	mg/L	1	02/05/2024 9:03	218215
Potassium	NELAP	0.0400	0.100		< 0.100	mg/L	1	02/05/2024 9:03	218215
Sodium	NELAP	0.018	0.050	J	0.034	mg/L	1	02/05/2024 9:03	218215
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Barium	NELAP	0.0007	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Boron	NELAP	0.0092	0.025	J	0.013	mg/L	5	02/06/2024 15:07	218215
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Chromium	NELAP	0.0007	0.0015	J	0.0013	mg/L	5	02/09/2024 15:22	218215
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	02/09/2024 15:22	218215
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	02/06/2024 15:07	218215
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	02/09/2024 15:22	218215
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	02/06/2024 15:07	218215
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	02/06/2024 15:07	218215
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	02/05/2024 15:53	218217



Sample Summary

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

Client: Ramboll
Client Project: JOP-24Q1

Work Order: 24010966
Report Date: 20-Feb-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24010966-001	G001D	Groundwater	2	01/29/2024 13:12
24010966-002	G002D	Groundwater	2	01/29/2024 13:59
24010966-003	G003	Groundwater	2	01/30/2024 10:05
24010966-004	G005	Groundwater	2	01/31/2024 12:12
24010966-005	G006	Groundwater	2	01/30/2024 12:28
24010966-006	G007	Groundwater	2	01/30/2024 11:17
24010966-007	G008	Groundwater	2	01/30/2024 14:06
24010966-008	G009	Groundwater	2	02/01/2024 10:35
24010966-009	G010	Groundwater	2	01/30/2024 15:07
24010966-010	G011	Groundwater	2	01/30/2024 14:08
24010966-027	G051D	Groundwater	2	01/30/2024 11:12
24010966-028	G052D	Groundwater	2	01/31/2024 9:08
24010966-029	G053D	Groundwater	2	01/30/2024 12:52
24010966-030	G054D	Groundwater	2	01/31/2024 11:11
24010966-037	XPW01_pore	Groundwater	2	01/30/2024 12:14
24010966-038	XPW02_pore	Groundwater	2	01/29/2024 14:51
24010966-039	XPW03_pore	Groundwater	2	01/30/2024 13:02
24010966-040	XSG01	Groundwater	1	01/29/2024 14:51
24010966-041	YSG03	Groundwater	1	01/29/2024 11:52
24010966-042	Field Blank	Aqueous	2	02/01/2024 11:42
24010966-043	G052D Duplicate	Groundwater	2	01/31/2024 9:08
24010966-045	Equipment Blank 1	Aqueous	2	02/01/2024 12:00



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

STANDARD METHODS 2510 B FIELD

Batch R342623		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R342623-1											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Spec. Conductance, Field	*	0		1420	1412	0	100.4	90	110	01/30/2024	

Batch R342623		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R342623-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.7	90	110	01/31/2024	

Batch R342623		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R342623-3											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field		*	0		1420	1412	0	100.6	90	110	02/01/2024

Batch R342623		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R342623-4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	01/29/2024	

Batch R342623		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R342623-5											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field		*	0		1410	1412	0	99.9	90	110	01/30/2024

Batch R342623		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-R342623-6											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	01/31/2024	

SW-846 9040B FIELD

Batch R342623		SampType: LCS		Units							
SampID: LCS-R342623-1											
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	01/30/2024	



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 9040B FIELD

Batch R342623		SampType: LCS		Units						
SampID: LCS-R342623-2										
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	01/31/2024

Batch R342623		SampType: LCS		Units						
SampID: LCS-R342623-3										
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	02/01/2024

Batch R342623		SampType: LCS		Units						
SampID: LCS-R342623-4										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		7.08	7.000	0	101.1	98.57	101.4	01/29/2024

Batch R342623		SampType: LCS		Units						
SampID: LCS-R342623-5										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		7.10	7.000	0	101.4	98.57	101.4	01/30/2024

Batch R342623		SampType: LCS		Units						
SampID: LCS-R342623-6										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		7.09	7.000	0	101.3	98.57	101.4	01/31/2024

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R342567		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	02/01/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	02/01/2024	

Batch R342567		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Total Dissolved Solids			20		946	1000	0	94.6	90	110	02/01/2024
Total Dissolved Solids			20		958	1000	0	95.8	90	110	02/01/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R342567		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24010966-039ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		396				394.0	0.51	02/01/2024

Batch R342567		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24012064-004BDUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		864				874.0	1.15	02/01/2024

Batch R342621		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	02/02/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	02/02/2024	

Batch R342621		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Total Dissolved Solids			20		940	1000	0	94.0	90	110	
Total Dissolved Solids			20		948	1000	0	94.8	90	110	02/02/2024

Batch R342621		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24010966-015ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		674				684.0	1.47	02/02/2024

Batch R342621		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24010966-024ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		210				216.0	2.82	02/02/2024

Batch R342937		SampType: MBLK		Units mg/L							
SampID: MBLK											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Total Dissolved Solids			20	J	16	16.00	0	100.0	-100	100	02/09/2024
Total Dissolved Solids			20		< 20	16.00	0	0	-100	100	02/09/2024
Total Dissolved Solids			20	J	16	16.00	0	100.0	-100	100	02/09/2024



Quality Control Results

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

Client: Ramboll
Client Project: JOP-24Q1

Work Order: 24010966
Report Date: 20-Feb-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch	R342937	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		952	1000	0	95.2	90	110	02/09/2024	
Total Dissolved Solids		20		956	1000	0	95.6	90	110	02/09/2024	
Total Dissolved Solids		20		918	1000	0	91.8	90	110	02/09/2024	

Batch R342937		SampType:	DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24011852-012ADUP												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Total Dissolved Solids				20		404				410.0	1.47	02/09/2024

Batch R342937		SampType:	DUP		Units mg/L					RPD Limit 10		
SampID: 24011852-035ADUP												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids				20		502				492.0	2.01	02/09/2024

Batch R342937		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24020602-010ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			50		325				330.0	1.53	02/09/2024

SW-846 9036 (TOTAL)

Batch R342591		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Sulfate			10		< 10	6.140	0	0	-100	100	02/02/2024

Batch R342591		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		19	20.00	0	96.3	90	110	02/02/2024	

Batch R342591		SampType: MS		Units mg/L							
SampID: 24010966-033AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		30	20.00	13.20	86.2	85	115	02/02/2024	



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 9036 (TOTAL)

Batch R342591		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24010966-033AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			10		33	20.00	13.20	100.0	30.44	8.70	02/02/2024

Batch R342591		SampType: MS		Units mg/L							
SampID: 24012064-001BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10	S	22	20.00	7.570	74.7	85	115	02/02/2024	

Batch R342591		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24012064-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			10	S	21	20.00	7.570	69.5	22.50	4.69	02/02/2024

Batch R342591		SampType: MS		Units mg/L							
SampID: 24012064-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		230	100.0	132.4	97.4	85	115	02/02/2024	

Batch R342591		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24012064-005BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			50		234	100.0	132.4	101.7	229.8	1.85	02/02/2024

Batch R342591		SampType: MS		Units mg/L							
SampID: 24020010-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50	E	268	100.0	160.7	107.4	85	115	02/02/2024	

Batch R342591		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24020010-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			50	E	252	100.0	160.7	90.8	268.1	6.38	02/02/2024

Batch R342640		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	02/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

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Batch R342640		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		19	20.00	0	95.4	90	110	02/05/2024	

Batch R342640		SampType: MS		Units mg/L						
SampID: 24010966-038AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		1000		4710	2000	2765	97.2	85	115	02/05/2024

Batch R342640		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24010966-038AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			1000		4540	2000	2765	88.8	4709	3.62	02/05/2024

Batch R342640		SampType: MS		Units mg/L							
SampID: 24020055-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	107	40.00	70.83	91.4	90	110	02/05/2024	

Batch R342640		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24020055-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20	E	109	40.00	70.83	96.2	107.4	1.77	02/05/2024

Batch R342640		SampType: MS		Units mg/L							
SampID: 24020079-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		75	40.00	35.36	98.8	90	110	02/05/2024	

Batch R342640		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24020079-003BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20		74	40.00	35.36	97.6	74.86	0.59	02/05/2024

Batch R342640		SampType: MS		Units mg/L							
SampID: 24020136-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		361	200.0	181.0	89.8	85	115	02/05/2024	



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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

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Batch R342640		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24020136-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			100		365	200.0	181.0	91.8	360.6	1.10	02/05/2024

Batch R342640		SampType: MS		Units mg/L							
SampID: 24020177-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		98	40.00	61.83	90.0	85	115	02/05/2024	

Batch R342640		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 24020177-001BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate			20		97	40.00	61.83	89.0	97.82	0.39		

Batch R342640		SampType: MS		Units mg/L							
SampID: 24020177-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	102	40.00	66.18	88.8	85	115	02/05/2024	

Batch R342640		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 24020177-007BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate			20	E	103	40.00	66.18	91.2	101.7	0.92		

Batch R342640		SampType: MS		Units mg/L							
SampID: 24020179-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	101	40.00	64.19	92.9	85	115	02/05/2024	

Batch R342640		SampType: MSD		Units mg/L		RPD Limit 10					Date Analyzed	
SampID: 24020179-003BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Sulfate			20	E	102	40.00	64.19	94.8	101.3	0.76		



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Client: Ramboll
Client Project: JOP-24Q1

Work Order: 24010966
Report Date: 20-Feb-24

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Batch R342565		SampType: MBLK		Units mg/L							
SampID: MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	02/01/2024	

Batch R342565		SampType: LCS		Units mg/L							
SampID: LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Fluoride		0.10		0.95	1.000	0	95.4	90	110	02/01/2024	

Batch R342565		SampType: MS		Units mg/L							
SampID: 24010118-009AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.96	2.000	0.07300	94.5	75	125	02/02/2024	

Batch R342565		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010118-009AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.05	2.000	0.07300	98.8	1.963	4.24	02/02/2024

Batch R342565		SampType: MS		Units mg/L							
SampID: 24010247-065AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		1.00		19.0	20.00	1.280	88.8	75	125	02/02/2024	

Batch R342565		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010247-065AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			1.00		18.3	20.00	1.280	85.2	19.05	3.96	02/02/2024

Batch R342565		SampType: MS		Units mg/L							
SampID: 24010966-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.37	2.000	0.3750	99.6	75	125	02/01/2024	

Batch R342565		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010966-006AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.45	2.000	0.3750	103.7	2.366	3.45	02/01/2024



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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

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Batch R342565		SampType: MS		Units mg/L						
SampID: 24010966-016AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.44	2.000	0.2960	107.2	75	125	02/02/2024

Batch R342565		SampType: MSD		Units mg/L								RPD Limit 15	Date
SampID: 24010966-016AMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Fluoride		0.10		2.40	2.000	0.2960	105.2	2.441	1.69				02/02/2024

Batch R342565		SampType: MS		Units mg/L							
SampID: 24010966-020AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.31	2.000	0.3760	96.5	75	125	02/01/2024	

Batch R342565		SampType: MSD		Units mg/L								RPD Limit 15	Date
SampID: 24010966-020AMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Fluoride		0.10		2.30	2.000	0.3760	96.4	2.306	0.13				02/01/2024

Batch R342565		SampType: MS		Units mg/L							
SampID: 24010966-021AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.28	2.000	0.2790	100.3	75	125	02/02/2024	

Batch R342565		SampType: MSD		Units mg/L								RPD Limit 15	Date
SampID: 24010966-021AMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Fluoride		0.10		2.34	2.000	0.2790	103.2	2.285	2.46				02/02/2024

Batch R342565		SampType: MS		Units mg/L							
SampID: 24010966-030AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.36	2.000	0.2690	104.6	75	125	02/02/2024	

Batch R342565		SampType: MSD		Units mg/L								RPD Limit 15	Date
SampID: 24010966-030AMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Fluoride		0.10		2.19	2.000	0.2690	96.2	2.361	7.38				02/02/2024



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Client Project: JOP-24Q1

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Batch R342565		SampType: MS		Units mg/L							
SampID: 24010966-044AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		2.29	2.000	0.2200	103.4	75	125	02/02/2024	

Batch R342565		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010966-044AMSD										Date Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.10		2.22	2.000	0.2200	99.8	2.289	3.24	02/02/2024	

Batch R342565		SampType: MS		Units mg/L						
SampID: 24020010-008BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.35	2.000	0.2920	102.9	75	125	02/02/2024

Batch R342565		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24020010-008BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.29	2.000	0.2920	100.0	2.350	2.46	02/02/2024

SW-846 9251 (TOTAL)

Batch R342603		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	02/02/2024	

Batch R342603		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		20	20.00	0	99.6	90	110	02/02/2024	

Batch R342603		SampType: MS		Units mg/L							Date Analyzed
SampID: 24010966-033AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4	E	56	20.00	38.26	89.7	85	115	02/02/2024	



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Client: Ramboll

Work Order: 24010966

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Report Date: 20-Feb-24

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Batch R342603		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010966-033AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	56	20.00	38.26	90.5	56.20	0.28	02/02/2024	

Batch R342603		SampType: MS		Units mg/L							
SampID: 24010966-038AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		306	200.0	104.4	100.8	85	115	02/02/2024	

Batch R342603		SampType: MSD		Units mg/L					RPD Limit 15			Date Analyzed	
SampID: 24010966-038AMSD													
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride			40		304	200.0	104.4	100.0	306.0	0.54	02/02/2024		

Batch R342603		SampType: MS		Units mg/L								Date Analyzed
SampID: 24012064-001BMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		4		33	20.00	13.95	96.4	85	115	02/02/2024		

Batch R342603		SampType: MSD		Units mg/L				RPD Limit 15				Date Analyzed
SampID: 24012064-001BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride			4		32	20.00	13.95	91.5	33.22	2.96	02/02/2024	

Batch R342603		SampType: MS		Units mg/L							
SampID: 24012064-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		138	100.0	46.41	92.0	85	115	02/02/2024	

Batch R342603		SampType: MSD		Units mg/L				RPD Limit 15				Date Analyzed
SampID: 24012064-005BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride			20		140	100.0	46.41	93.5	138.5	1.06	02/02/2024	

Batch R342603		SampType: MS		Units mg/L							
SampID: 24020010-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		35	20.00	17.48	88.0	85	115	02/02/2024	



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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

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Batch R342603		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24020010-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		35	20.00	17.48	87.4	35.07	0.34	02/02/2024

Batch R342603		SampType: MS		Units mg/L							
SampID: 24020055-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		23	20.00	3.370	98.4	85	115	02/02/2024	

Batch R342603		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24020055-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		23	20.00	3.370	98.4	23.05	0.00	02/02/2024

Batch R342603		SampType: MS		Units mg/L							
SampID: 24020079-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		35	20.00	16.07	92.6	85	115	02/02/2024	

Batch R342603		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24020079-003BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		35	20.00	16.07	95.4	34.60	1.55	02/02/2024

Batch R342647		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	02/05/2024	

Batch R342647		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	100.0	90	110	02/05/2024	

Batch R342647		SampType: MS		Units mg/L							
SampID: 24020136-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		29	20.00	10.07	93.0	85	115	02/05/2024	



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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

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Batch R342647		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24020136-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		29	20.00	10.07	92.6	28.67	0.24	02/05/2024

Batch R342647		SampType: MS		Units mg/L							
SampID: 24020177-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		43	20.00	25.62	88.6	85	115	02/05/2024	

Batch R342647		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed	
SampID: 24020177-001BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride			4		44	20.00	25.62	89.5	43.33	0.41	02/05/2024	

Batch R342647		SampType: MS		Units mg/L							
SampID: 24020177-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		27	20.00	8.110	93.2	85	115	02/05/2024	

Batch R342647		SampType: MSD		Units mg/L				RPD Limit 15				Date Analyzed
SampID: 24020177-007BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride			4		27	20.00	8.110	94.3	26.74	0.86	02/05/2024	

Batch R342647		SampType: MS		Units mg/L							
SampID: 24020179-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		24	20.00	4.930	94.5	85	115	02/05/2024	

Batch R342647		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24020179-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4		24	20.00	4.930	94.6	23.83	0.13	02/05/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 218158		SampType: MBLK		Units mg/L							
SampID: MBLK-218158											Date Analyzed
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	02/05/2024	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	02/05/2024	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	02/05/2024	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	02/05/2024	

Batch 218158		SampType: LCS		Units mg/L						
SampID: LCS-218158										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.68	2.500	0	107.2	85	115	02/05/2024
Magnesium		0.0500		2.43	2.500	0	97.3	85	115	02/05/2024
Potassium		0.100		2.60	2.500	0	103.8	85	115	02/05/2024
Sodium		0.0500		2.59	2.500	0	103.4	85	115	02/05/2024

Batch 218158		SampType: MS		Units mg/L						
SampID: 24010966-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	48.4	2.500	44.58	152.0	75	125	02/05/2024
Magnesium		0.0500		17.4	2.500	14.41	120.3	75	125	02/05/2024
Potassium		0.100		3.90	2.500	1.344	102.3	75	125	02/05/2024
Sodium		0.0500		36.6	2.500	33.63	118.8	75	125	02/05/2024

Batch 218158		SampType: MSD		Units mg/L					RPD Limit 20	
SampID: 24010966-003BMSD										Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
Calcium			0.100		47.6	2.500	44.58	121.6	48.38	1.58
Magnesium			0.0500		17.1	2.500	14.41	108.6	17.41	1.70
Potassium			0.100		3.86	2.500	1.344	100.8	3.901	0.96
Sodium			0.0500		36.1	2.500	33.63	98.4	36.60	1.40

Batch 218158		SampType: MS		Units mg/L						
SampID: 24010966-018BMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Calcium		0.100	S	59.4	2.500	53.34	242.8	75	125	02/05/2024
Magnesium		0.0500	S	18.5	2.500	15.33	127.6	75	125	02/05/2024
Potassium		0.100		3.94	2.500	1.278	106.6	75	125	02/05/2024
Sodium		0.0500	S	32.6	2.500	28.59	160.8	75	125	02/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 218158		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24010966-018BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	59.8	2.500	53.34	258.0	59.41	0.64	02/05/2024
Magnesium		0.0500	S	18.7	2.500	15.33	133.8	18.52	0.82	02/05/2024
Potassium		0.100		3.96	2.500	1.278	107.3	3.942	0.48	02/05/2024
Sodium		0.0500	S	32.6	2.500	28.59	162.4	32.61	0.12	02/05/2024

Batch 218159		SampType: MBLK		Units mg/L							
SampID: MBLK-218159											Date Analyzed
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	02/02/2024	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	02/02/2024	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	02/02/2024	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	02/02/2024	

Batch 218159		SampType: LCS		Units mg/L						
SampID: LCS-218159										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.49	2.500	0	99.7	85	115	02/02/2024
Magnesium		0.0500		2.38	2.500	0	95.2	85	115	02/02/2024
Potassium		0.100		2.54	2.500	0	101.8	85	115	02/02/2024
Sodium		0.0500		2.50	2.500	0	99.9	85	115	02/02/2024

Batch 218159		SampType: MS		Units mg/L						
SampID: 24010966-027BMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Calcium		0.100		30.5	2.500	28.31	87.6	75	125	02/02/2024
Magnesium		0.0500		14.4	2.500	12.12	90.5	75	125	02/02/2024
Potassium		0.100		2.93	2.500	0.4145	100.4	75	125	02/02/2024
Sodium		0.0500	S	34.8	2.500	33.03	70.8	75	125	02/02/2024

Batch 218159	SampType: MSD	Units mg/L					RPD Limit 20			
SampID: 24010966-027BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		30.8	2.500	28.31	100.4	30.50	1.04	02/02/2024
Magnesium		0.0500		14.5	2.500	12.12	96.4	14.39	1.02	02/02/2024
Potassium		0.100		2.94	2.500	0.4145	101.1	2.926	0.57	02/02/2024
Sodium		0.0500		35.1	2.500	33.03	82.0	34.80	0.80	02/02/2024



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 218215 SampType: MBLK Units mg/L

SampID: MBLK-218215

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	02/05/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	02/05/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	02/05/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	02/05/2024

Batch 218215 SampType: LCS Units mg/L

SampID: LCS-218215

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.37	2.500	0	94.8	85	115	02/05/2024
Magnesium		0.0500		2.28	2.500	0	91.1	85	115	02/05/2024
Potassium		0.100		2.63	2.500	0	105.4	85	115	02/05/2024
Sodium		0.0500		2.42	2.500	0	96.6	85	115	02/05/2024

Batch 218215 SampType: MS Units mg/L

SampID: 24010966-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	75.4	2.500	74.42	37.6	75	125	02/05/2024
Magnesium		0.0500		25.5	2.500	23.58	75.0	75	125	02/05/2024
Potassium		0.100		4.52	2.500	1.893	105.2	75	125	02/05/2024
Sodium		0.0500		32.0	2.500	29.65	94.0	75	125	02/05/2024

Batch 218215 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24010966-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	75.6	2.500	74.42	49.2	75.36	0.38	02/05/2024
Magnesium		0.0500		25.5	2.500	23.58	78.4	25.46	0.34	02/05/2024
Potassium		0.100		4.47	2.500	1.893	102.9	4.522	1.24	02/05/2024
Sodium		0.0500		31.6	2.500	29.65	77.6	32.00	1.29	02/05/2024

Batch 218215 SampType: MS Units mg/L

SampID: 24010966-045BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.42	2.500	0.05690	94.6	75	125	02/05/2024
Magnesium		0.0500		2.31	2.500	0.01530	91.6	75	125	02/05/2024
Potassium		0.100		2.68	2.500	0	107.3	75	125	02/05/2024
Sodium		0.0500		2.47	2.500	0.03430	97.3	75	125	02/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch	218215	SampType:	MSD	Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24010966-045BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Calcium		0.100		2.44	2.500	0.05690	95.1	2.422	0.54	02/05/2024	
Magnesium		0.0500		2.30	2.500	0.01530	91.2	2.306	0.45	02/05/2024	
Potassium		0.100		2.69	2.500	0	107.7	2.683	0.36	02/05/2024	
Sodium		0.0500		2.48	2.500	0.03430	97.8	2.467	0.54	02/05/2024	

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	218158	SampType:	MBLK	Units		mg/L					
SampID: MBLK-218158											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	02/05/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	02/05/2024	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	02/05/2024	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	02/05/2024	
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	02/06/2024	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	02/05/2024	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	02/05/2024	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	02/05/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	02/05/2024	
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	02/05/2024	
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	02/05/2024	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	02/05/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	02/05/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218158 SampType: LCS Units mg/L

SampID: LCS-218158

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.519	0.5000	0	103.9	80	120	02/05/2024
Arsenic		0.0010		0.539	0.5000	0	107.9	80	120	02/05/2024
Barium		0.0010		2.00	2.000	0	99.9	80	120	02/05/2024
Beryllium		0.0010		0.0536	0.0500	0	107.1	80	120	02/05/2024
Boron		0.0250		0.431	0.5000	0	86.1	80	120	02/06/2024
Cadmium		0.0010		0.0513	0.0500	0	102.7	80	120	02/05/2024
Chromium		0.0015		0.197	0.2000	0	98.7	80	120	02/05/2024
Cobalt		0.0010		0.500	0.5000	0	100.1	80	120	02/05/2024
Lead		0.0010		0.501	0.5000	0	100.3	80	120	02/05/2024
Lithium	*	0.0030		0.509	0.5000	0	101.7	80	120	02/05/2024
Molybdenum		0.0015		0.473	0.5000	0	94.6	80	120	02/05/2024
Selenium		0.0010		0.510	0.5000	0	102.1	80	120	02/05/2024
Thallium		0.0020		0.214	0.2500	0	85.6	80	120	02/05/2024

Batch 218158 SampType: MS Units mg/L

SampID: 24010966-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.525	0.5000	0	105.1	75	125	02/05/2024
Arsenic		0.0010		0.573	0.5000	0.003423	113.9	75	125	02/05/2024
Barium		0.0010		2.35	2.000	0.07332	113.9	75	125	02/05/2024
Beryllium		0.0010		0.0631	0.0500	0.0006634	124.9	75	125	02/05/2024
Boron		0.0250		0.637	0.5000	0.2273	81.9	75	125	02/06/2024
Cadmium		0.0010		0.0586	0.0500	0	117.2	75	125	02/05/2024
Chromium		0.0015		0.236	0.2000	0.01323	111.5	75	125	02/05/2024
Cobalt		0.0010		0.542	0.5000	0.006485	107.2	75	125	02/05/2024
Lead		0.0010		0.587	0.5000	0.003326	116.8	75	125	02/05/2024
Lithium	*	0.0030		0.594	0.5000	0.002721	118.3	75	125	02/05/2024
Molybdenum		0.0015		0.557	0.5000	0.001199	111.2	75	125	02/05/2024
Selenium		0.0010		0.534	0.5000	0	106.9	75	125	02/05/2024
Thallium		0.0020		0.256	0.2500	0	102.3	75	125	02/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218158		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24010966-003BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.529	0.5000	0	105.8	0.5253	0.72	02/05/2024
Arsenic		0.0010		0.586	0.5000	0.003423	116.6	0.5728	2.32	02/05/2024
Barium		0.0010		2.37	2.000	0.07332	114.7	2.351	0.67	02/05/2024
Beryllium		0.0010		0.0614	0.0500	0.0006634	121.4	0.06313	2.84	02/05/2024
Boron		0.0250		0.620	0.5000	0.2273	78.6	0.6367	2.60	02/06/2024
Cadmium		0.0010		0.0610	0.0500	0	121.9	0.05862	3.91	02/05/2024
Chromium		0.0015		0.247	0.2000	0.01323	116.8	0.2363	4.38	02/05/2024
Cobalt		0.0010		0.540	0.5000	0.006485	106.8	0.5425	0.39	02/05/2024
Lead		0.0010		0.592	0.5000	0.003326	117.7	0.5873	0.76	02/05/2024
Lithium	*	0.0030		0.578	0.5000	0.002721	115.0	0.5943	2.85	02/05/2024
Molybdenum		0.0015		0.581	0.5000	0.001199	115.9	0.5572	4.11	02/05/2024
Selenium		0.0010		0.545	0.5000	0	108.9	0.5345	1.87	02/05/2024
Thallium		0.0020		0.265	0.2500	0	105.8	0.2558	3.40	02/05/2024

Batch 218158		SampType: MS		Units mg/L							Date Analyzed
SampID: 24010966-018BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		0.0010		0.430	0.5000	0	86.0	75	125		
Arsenic		0.0010		0.448	0.5000	0	89.6	75	125		
Barium		0.0010		1.75	2.000	0.08356	83.5	75	125		
Beryllium		0.0010		0.0449	0.0500	0	89.9	75	125		
Boron		0.0250		1.02	0.5000	0.6124	81.3	75	125		
Cadmium		0.0010		0.0419	0.0500	0	83.8	75	125		
Chromium		0.0015		0.198	0.2000	0.001115	98.4	75	125		
Cobalt		0.0010		0.502	0.5000	0	100.3	75	125		
Lead		0.0010		0.411	0.5000	0	82.3	75	125		
Lithium	*	0.0030		0.436	0.5000	0	87.2	75	125		
Molybdenum		0.0015		0.455	0.5000	0.0006441	90.8	75	125		
Selenium		0.0010		0.427	0.5000	0.0009151	85.2	75	125		
Thallium		0.0020		0.299	0.2500	0	119.5	75	125		



Quality Control Results

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Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218158		SampType: MSD		Units mg/L				RPD Limit 20		
SampleID: 24010966-018BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.437	0.5000	0	87.3	0.4299	1.59	02/06/2024
Arsenic		0.0010		0.451	0.5000	0	90.3	0.4481	0.70	02/06/2024
Barium		0.0010		1.77	2.000	0.08356	84.4	1.753	1.11	02/06/2024
Beryllium		0.0010		0.0461	0.0500	0	92.2	0.04493	2.54	02/06/2024
Boron		0.0250		1.03	0.5000	0.6124	83.0	1.019	0.80	02/06/2024
Cadmium		0.0010		0.0423	0.0500	0	84.7	0.04189	1.05	02/06/2024
Chromium		0.0015		0.197	0.2000	0.001115	97.8	0.1979	0.54	02/07/2024
Cobalt		0.0010		0.491	0.5000	0	98.3	0.5016	2.03	02/07/2024
Lead		0.0010		0.430	0.5000	0	85.9	0.4113	4.34	02/06/2024
Lithium	*	0.0030		0.437	0.5000	0	87.4	0.4361	0.25	02/06/2024
Molybdenum		0.0015		0.451	0.5000	0.0006441	90.1	0.4547	0.82	02/09/2024
Selenium		0.0010		0.426	0.5000	0.0009151	85.0	0.4267	0.18	02/06/2024
Thallium		0.0020		0.291	0.2500	0	116.3	0.2988	2.76	02/06/2024

Batch 218159		SampType: MBLK		Units mg/L						
SampleID: MBLK-218159										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	02/06/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	02/06/2024
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	02/06/2024
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	02/06/2024
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	02/06/2024
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	02/06/2024
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	02/06/2024
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	02/06/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	02/06/2024
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	02/06/2024
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	02/06/2024
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	02/06/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	02/06/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218159 SampType: LCS Units mg/L

SampleID: LCS-218159

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.460	0.5000	0	91.9	80	120	02/06/2024
Arsenic		0.0010		0.477	0.5000	0	95.4	80	120	02/06/2024
Barium		0.0010		1.80	2.000	0	90.0	80	120	02/06/2024
Beryllium		0.0010		0.0472	0.0500	0	94.5	80	120	02/06/2024
Boron		0.0250		0.425	0.5000	0	85.0	80	120	02/06/2024
Cadmium		0.0010		0.0460	0.0500	0	92.0	80	120	02/06/2024
Chromium		0.0015		0.177	0.2000	0	88.3	80	120	02/06/2024
Cobalt		0.0010		0.438	0.5000	0	87.6	80	120	02/06/2024
Lead		0.0010		0.457	0.5000	0	91.3	80	120	02/06/2024
Lithium	*	0.0030		0.453	0.5000	0	90.6	80	120	02/06/2024
Molybdenum		0.0015		0.450	0.5000	0	90.0	80	120	02/06/2024
Selenium		0.0010		0.448	0.5000	0	89.6	80	120	02/06/2024
Thallium		0.0020		0.206	0.2500	0	82.2	80	120	02/06/2024

Batch 218159 SampType: MS Units mg/L

SampleID: 24010966-027BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.446	0.5000	0	89.2	75	125	02/06/2024
Arsenic		0.0010		0.468	0.5000	0	93.6	75	125	02/06/2024
Barium		0.0010		1.82	2.000	0.03457	89.1	75	125	02/06/2024
Beryllium		0.0010		0.0463	0.0500	0	92.7	75	125	02/06/2024
Boron		0.0250		1.13	0.5000	0.7039	86.2	75	125	02/06/2024
Cadmium		0.0010		0.0450	0.0500	0	90.0	75	125	02/06/2024
Chromium		0.0015		0.205	0.2000	0.002096	101.7	75	125	02/07/2024
Cobalt		0.0010		0.530	0.5000	0.001211	105.7	75	125	02/08/2024
Lead		0.0010		0.453	0.5000	0	90.5	75	125	02/06/2024
Lithium	*	0.0030		0.463	0.5000	0.005380	91.4	75	125	02/06/2024
Molybdenum		0.0015		0.472	0.5000	0	94.5	75	125	02/09/2024
Selenium		0.0010		0.452	0.5000	0.004882	89.5	75	125	02/06/2024
Thallium		0.0020		0.194	0.2500	0	77.7	75	125	02/06/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218159		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24010966-027BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.433	0.5000	0	86.6	0.4461	3.02	02/06/2024
Arsenic		0.0010		0.464	0.5000	0	92.8	0.4678	0.81	02/06/2024
Barium		0.0010		1.73	2.000	0.03457	84.8	1.817	4.88	02/06/2024
Beryllium		0.0010		0.0461	0.0500	0	92.2	0.04634	0.56	02/06/2024
Boron		0.0250		1.17	0.5000	0.7039	92.3	1.135	2.65	02/06/2024
Cadmium		0.0010		0.0434	0.0500	0	86.8	0.04500	3.67	02/06/2024
Chromium		0.0015		0.193	0.2000	0.002096	95.6	0.2055	6.11	02/07/2024
Cobalt		0.0010		0.496	0.5000	0.001211	99.0	0.5295	6.54	02/08/2024
Lead		0.0010		0.419	0.5000	0	83.8	0.4527	7.76	02/06/2024
Lithium	*	0.0030		0.460	0.5000	0.005380	90.9	0.4625	0.61	02/06/2024
Molybdenum		0.0015		0.462	0.5000	0	92.5	0.4724	2.14	02/09/2024
Selenium		0.0010		0.446	0.5000	0.004882	88.2	0.4525	1.51	02/06/2024
Thallium		0.0020		0.192	0.2500	0	76.9	0.1943	1.02	02/06/2024

Batch 218215		SampType: MBLK		Units mg/L						
SampleID: MBLK-218215										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	02/05/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	02/05/2024
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	02/05/2024
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	02/05/2024
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	02/06/2024
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	02/05/2024
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	02/05/2024
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	02/05/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	02/05/2024
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	02/05/2024
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	02/05/2024
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	02/05/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	02/05/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218215		SampType: LCS		Units mg/L							
SampID: LCS-218215											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		0.0010		0.464	0.5000	0	92.9	80	120	02/05/2024	
Arsenic		0.0010		0.505	0.5000	0	100.9	80	120	02/05/2024	
Barium		0.0010		1.86	2.000	0	92.8	80	120	02/05/2024	
Beryllium		0.0010		0.0456	0.0500	0	91.2	80	120	02/05/2024	
Boron		0.0250		0.447	0.5000	0	89.4	80	120	02/06/2024	
Cadmium		0.0010		0.0479	0.0500	0	95.9	80	120	02/05/2024	
Chromium		0.0015		0.184	0.2000	0	91.9	80	120	02/05/2024	
Cobalt		0.0010		0.463	0.5000	0	92.6	80	120	02/05/2024	
Lead		0.0010		0.466	0.5000	0	93.3	80	120	02/05/2024	
Lithium	*	0.0030		0.444	0.5000	0	88.9	80	120	02/05/2024	
Molybdenum		0.0015		0.459	0.5000	0	91.7	80	120	02/05/2024	
Selenium		0.0010		0.476	0.5000	0	95.1	80	120	02/05/2024	
Thallium		0.0020		0.216	0.2500	0	86.3	80	120	02/05/2024	

Batch 218215		SampType: MS		Units mg/L						
SampID: 24010966-011BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.432	0.5000	0	86.4	75	125	02/06/2024
Arsenic		0.0010		0.444	0.5000	0.004113	87.9	75	125	02/06/2024
Barium		0.0010		1.72	2.000	0.05559	83.4	75	125	02/06/2024
Beryllium		0.0010		0.0456	0.0500	0.0003410	90.5	75	125	02/06/2024
Boron		0.0250	S	5.96	0.5000	5.905	10.9	75	125	02/06/2024
Cadmium		0.0010		0.0421	0.0500	0	84.1	75	125	02/06/2024
Chromium		0.0015		0.203	0.2000	0.01324	95.1	75	125	02/08/2024
Cobalt		0.0010		0.498	0.5000	0.002980	99.1	75	125	02/08/2024
Lead		0.0010		0.422	0.5000	0.001746	84.0	75	125	02/06/2024
Lithium	*	0.0030		0.436	0.5000	0.002121	86.8	75	125	02/06/2024
Molybdenum		0.0015		0.442	0.5000	0.0009926	88.2	75	125	02/09/2024
Selenium		0.0010		0.419	0.5000	0	83.7	75	125	02/06/2024
Thallium		0.0020		0.291	0.2500	0	116.3	75	125	02/05/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218215		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24010966-011BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.432	0.5000	0	86.4	0.4319	0.01	02/06/2024
Arsenic		0.0010		0.457	0.5000	0.004113	90.6	0.4437	3.02	02/06/2024
Barium		0.0010		1.78	2.000	0.05559	86.1	1.725	3.00	02/06/2024
Beryllium		0.0010		0.0461	0.0500	0.0003410	91.5	0.04561	1.06	02/06/2024
Boron		0.0250	S	6.15	0.5000	5.905	49.0	5.960	3.15	02/06/2024
Cadmium		0.0010		0.0430	0.0500	0	86.1	0.04206	2.29	02/06/2024
Chromium		0.0015		0.201	0.2000	0.01324	93.8	0.2034	1.24	02/08/2024
Cobalt		0.0010		0.489	0.5000	0.002980	97.3	0.4983	1.80	02/08/2024
Lead		0.0010		0.427	0.5000	0.001746	85.1	0.4219	1.29	02/06/2024
Lithium	*	0.0030		0.440	0.5000	0.002121	87.6	0.4359	0.97	02/06/2024
Molybdenum		0.0015		0.459	0.5000	0.0009926	91.7	0.4419	3.87	02/09/2024
Selenium		0.0010		0.432	0.5000	0	86.5	0.4186	3.22	02/06/2024
Thallium		0.0020		0.259	0.2500	0	103.6	0.2908	11.54	02/05/2024

Batch 218215		SampType: MS		Units mg/L						
SampID: 24010966-045BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.429	0.5000	0	85.8	75	125	02/06/2024
Arsenic		0.0010		0.443	0.5000	0	88.6	75	125	02/06/2024
Barium		0.0010		1.65	2.000	0	82.6	75	125	02/06/2024
Beryllium		0.0010		0.0452	0.0500	0	90.5	75	125	02/06/2024
Boron		0.0250		0.437	0.5000	0.01319	84.8	75	125	02/06/2024
Cadmium		0.0010		0.0412	0.0500	0	82.4	75	125	02/06/2024
Chromium		0.0015		0.196	0.2000	0.001332	97.2	75	125	02/09/2024
Cobalt		0.0010		0.496	0.5000	0	99.2	75	125	02/09/2024
Lead		0.0010		0.416	0.5000	0	83.2	75	125	02/06/2024
Lithium	*	0.0030		0.441	0.5000	0	88.1	75	125	02/06/2024
Molybdenum		0.0015		0.449	0.5000	0	89.9	75	125	02/09/2024
Selenium		0.0010		0.422	0.5000	0	84.5	75	125	02/06/2024
Thallium		0.0020		0.201	0.2500	0	80.3	75	125	02/06/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 218215		SampType: MSD	Units mg/L				RPD Limit 20			
SampID: 24010966-045BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.445	0.5000	0	89.0	0.4289	3.63	02/06/2024
Arsenic		0.0010		0.454	0.5000	0	90.7	0.4428	2.43	02/06/2024
Barium		0.0010		1.69	2.000	0	84.7	1.653	2.43	02/06/2024
Beryllium		0.0010		0.0452	0.0500	0	90.3	0.04524	0.14	02/06/2024
Boron		0.0250		0.442	0.5000	0.01319	85.8	0.4372	1.12	02/06/2024
Cadmium		0.0010		0.0441	0.0500	0	88.2	0.04120	6.82	02/06/2024
Chromium		0.0015		0.197	0.2000	0.001332	97.8	0.1956	0.65	02/09/2024
Cobalt		0.0010		0.480	0.5000	0	96.1	0.4959	3.19	02/09/2024
Lead		0.0010		0.421	0.5000	0	84.2	0.4161	1.23	02/06/2024
Lithium	*	0.0030		0.440	0.5000	0	88.1	0.4407	0.07	02/06/2024
Molybdenum		0.0015		0.464	0.5000	0	92.8	0.4494	3.23	02/09/2024
Selenium		0.0010		0.434	0.5000	0	86.9	0.4225	2.80	02/06/2024
Thallium		0.0020		0.213	0.2500	0	85.0	0.2007	5.74	02/06/2024

SW-846 7470A (TOTAL)

Batch 218173		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-218173											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100		

Batch 218173		SampType: LCS		Units mg/L							
SampID: LCS-218173											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00488	0.0050	0	97.7	85	115	02/02/2024	

Batch 218173		SampType: MS		Units mg/L							Date Analyzed
SampID: 24012106-003CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00483	0.0050	0	96.5	75	125		

Batch 218173		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24012106-003CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00494	0.0050	0	98.7	0.004827	2.24	02/02/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 7470A (TOTAL)

Batch 218175		SampType: MBLK		Units mg/L							
SampID: MBLK-218175											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	02/02/2024	

Batch 218175		SampType: LCS		Units mg/L							
SampID: LCS-218175											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Mercury		0.00020		0.00472	0.0050	0	94.3	85	115	02/02/2024	

Batch 218175		SampType: MS		Units mg/L							
SampID: 24010966-017BMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Mercury		0.00020		0.00504	0.0050	0	100.7	75	125	02/02/2024	

Batch 218175		SampType: MSD		Units mg/L				RPD Limit 15				Date Analyzed
SampID: 24010966-017BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury			0.00020		0.00481	0.0050	0	96.3	0.005037	4.55	02/02/2024	

Batch 218175		SampType: MS		Units mg/L							
SampID: 24010966-027BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00423	0.0050	0	84.5	75	125	02/02/2024	

Batch 218175		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010966-027BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00484	0.0050	0	96.8	0.004226	13.52	02/02/2024

Batch 218176		SampType: MBLK		Units mg/L							
SampID: MBLK-218176											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	02/02/2024	

Batch 218176		SampType: LCS		Units mg/L							
SampID: LCS-218176											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00477	0.0050	0	95.4	85	115	02/02/2024	



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 7470A (TOTAL)

Batch 218176		SampType: MS		Units mg/L						
SampID: 24012081-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00506	0.0050	0	101.2	75	125	02/02/2024

Batch 218176		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24012081-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00493	0.0050	0	98.6	0.005059	2.56	02/02/2024

Batch 218217		SampType: MBLK		Units mg/L							
SampID: MBLK-218217											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	02/05/2024	

Batch 218217		SampType: LCS		Units mg/L								
SampID: LCS-218217												Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Mercury		0.00020		0.00480	0.0050	0	96.0	85	115	02/05/2024		

Batch 218217		SampType: MS		Units mg/L							
SampID: 24010118-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00493	0.0050	0	98.6	75	125	02/05/2024	

Batch 218217		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010118-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00495	0.0050	0	99.1	0.004932	0.41	02/05/2024

Batch 218217		SampType: MS		Units mg/L							
SampID: 24010966-012BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00471	0.0050	0	94.1	75	125	02/05/2024	

Batch 218217		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24010966-012BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercurv			0.00020		0.00502	0.0050	0	100.3	0.004707	6.34	02/05/2024



Quality Control Results

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

SW-846 7470A (TOTAL)

Batch 218639 SampType: MBLK Units mg/L

SampID: MBLK-218639

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	02/13/2024

Batch 218639 SampType: LCS Units mg/L

SampID: LCS-218639

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00439	0.0050	0	87.8	85	115	02/13/2024



Receiving Check List

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

Client: Ramboll

Work Order: 24010966

Client Project: JOP-24Q1

Report Date: 20-Feb-24

Carrier: Tracy Carroll

Received By: AMD

Completed by:

On:

01-Feb-24

Amber Dilallo

Reviewed by:

On:

02-Feb-24

Ellie Hopkins

Pages to follow:

Chain of custody

5

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 1.7

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☒

Lab ☐

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

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 ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 2/1/2024 9:10:22 AM

Sample received 2/1/24 at 1540 (on ice at 9.3C - LTG3). pH strip #90719. AMD 2/2/24

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 3	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location 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	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
JOP-24Q1		Jenny Pazzel		1/31/24	1930	Gina Delle		1/31/24	1930	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
										15	Y	N	Y

PH 7.90719 Gm 2/1/24

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carr

SIGNATURE of SAMPLER: Jenny Pazzel

DATE Signed (MM/DD/YY):

1/31/24

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 3	
Company: Visira Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@visitracorp.com		Company Name: Visira Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@visitracorp.com		Address: see Section A			
Email To: Brian.Voelker@VisiraCorp.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 DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WIP AIR AR OTHER OF TIS 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		JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Tracy Carroll		DATE Signed (MM/DD/YY): 1/31/24	
SIGNATURE of SAMPLER: [Signature]			
Temp in °C	Received on Ice (Y/N)	Cooling System (Y/N)	Samples Intact (Y/N)

24010966-401

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 3 of 3	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@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 DRINKING WATER DW WATER WT WASTE WATER WA PRODUCT P SOIL/SOLID SL OIL OL WIPE WIP AIR AR OTHER OT TISUE 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
JOP-24Q1		<i>Way Powell</i>		1/31/24	1930	<i>Smiley Oliver</i>		1/31/24	1930				
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>Way Powell</i>													
SIGNATURE of SAMPLER: <i>Way Powell</i>													
DATE Signed (MM/DD/YY): <i>1/31/24</i>													

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

24010966

Section A Required Client Information.		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 3	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com		Address: see Section A			
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 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
JOP-24Q1		J. Gelp		2-1	1540	Justin Gelp		2/1	1540	9.3	>	=	Y
										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

pH ✓ 9.0719 Gm
2/1/24

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 3

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 ₃	Methanol	Other		JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401										
1	G105	WT					2	1	1																				24010966-033		
2	G107	WT			2-1-24	0915	2	1	1																				24010966-034		
3	G109	WT					2	1	1																				24010966-035		
4	G111_LF	WT					2	1	1																				24010966-036		
5	XPW01_pore	WT					2	1	1																				24010966-037		
6	XPW02_pore	WT					2	1	1																				24010966-038		
7	XPW03_pore	WT					2	1	1																				24010966-039		
8	XSG01	WT					0																						24010966-040		
9	YSG03	WT					0																						24010966-041		
10	Field Blank	WT			2-1-24	1142	2	1	1																				24010966-042		
11	G052D Duplicate	WT					2	1	1																				24010966-043		
12	G012S Duplicate	WT			2-1-24	1117	2	1	1																				24010966-044		
13	Equipment Blank 1	WT			2-1-24	1200	2	1	1																				24010966-045		
14	Equipment Blank 2	WT					2	1	1																				24010966-046		
15	Equipment Blank 3	WT					2	1	1																				24010966-047		
16																															
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																	
JOP-24Q1		J. Colp		2-1		1540		[Signature]		21		1540		> z																	

Confidential

March 04, 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: JOP-24Q1

WorkOrder: 24010967

Dear Eric Bauer:

TEKLAB, INC received 34 samples on 2/1/2024 3:40:00 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: 24010967

Client Project: JOP-24Q1

Report Date: 04-Mar-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	41
Receiving Check List	42
Chain of Custody	Appended

Definitions

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

Client: Ramboll

Work Order: 24010967

Client Project: JOP-24Q1

Report Date: 04-Mar-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: 24010967

Client Project: JOP-24Q1

Report Date: 04-Mar-24

Qualifiers

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



Case Narrative

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

Client: Ramboll

Work Order: 24010967

Client Project: JOP-24Q1

Report Date: 04-Mar-24

Cooler Receipt Temp: 1.7 °C

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

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: 24010967

Client Project: JOP-24Q1

Report Date: 04-Mar-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-001
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G001D
Collection Date: 01/29/2024 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	02/19/2024 11:43	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-002
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G002D
Collection Date: 01/29/2024 13:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:43	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-003
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G003
Collection Date: 01/30/2024 10:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:53	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-004
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G005
Collection Date: 01/31/2024 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:53	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-005
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G006
Collection Date: 01/30/2024 12:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:53	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-006
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G007
Collection Date: 01/30/2024 11:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:54	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-007
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G008
Collection Date: 01/30/2024 14:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:54	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-008
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G009
Collection Date: 02/01/2024 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:54	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-009
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G010
Collection Date: 01/30/2024 15:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:55	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-010
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G011
Collection Date: 01/30/2024 14:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:55	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-011
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G012S
Collection Date: 02/01/2024 11:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:55	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-012
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G012D
Collection Date: 02/01/2024 12:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:55	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-013
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G013S
Collection Date: 01/31/2024 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	02/19/2024 11:55	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-014
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G013D
Collection Date: 01/31/2024 14:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:56	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-015
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G016S
Collection Date: 02/01/2024 12:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:56	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-016
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G018S
Collection Date: 01/31/2024 11:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:56	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-017
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G019S
Collection Date: 01/31/2024 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	02/19/2024 11:56	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-018
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G019D
Collection Date: 01/31/2024 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:56	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-019
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G020S
Collection Date: 01/30/2024 9:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:57	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-020
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G020D
Collection Date: 01/30/2024 10:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:57	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-021
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G021S
Collection Date: 01/30/2024 9:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:51	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-022
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G021D
Collection Date: 01/30/2024 8:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:51	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-023
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G022S
Collection Date: 01/31/2024 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	02/19/2024 11:51	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-024
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G022D
Collection Date: 01/31/2024 8:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:51	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-025
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G023S
Collection Date: 01/31/2024 11:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:51	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-026
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G024S
Collection Date: 01/31/2024 9:27

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:52	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-027
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G051D
Collection Date: 01/30/2024 11:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:52	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-028
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G052D
Collection Date: 01/31/2024 9:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:52	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-029
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G053D
Collection Date: 01/30/2024 12:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:52	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-030
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G054D
Collection Date: 01/31/2024 11:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:52	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-031
Matrix: AQUEOUS

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: Field Blank
Collection Date: 02/01/2024 11:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:53	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-032
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G052D Duplicate
Collection Date: 01/31/2024 9:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:53	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-033
Matrix: GROUNDWATER

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: G012S Duplicate
Collection Date: 02/01/2024 11:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:51	R343854



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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

Client: Ramboll
Client Project: JOP-24Q1
Lab ID: 24010967-034
Matrix: AQUEOUS

Work Order: 24010967
Report Date: 04-Mar-24
Client Sample ID: Equipment Blank 1
Collection Date: 02/01/2024 12:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	02/19/2024 11:51	R343854



Sample Summary

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

Client: Ramboll
Client Project: JOP-24Q1

Work Order: 24010967
Report Date: 04-Mar-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24010967-001	G001D	Groundwater	1	01/29/2024 13:12
24010967-002	G002D	Groundwater	1	01/29/2024 13:59
24010967-003	G003	Groundwater	1	01/30/2024 10:05
24010967-004	G005	Groundwater	1	01/31/2024 12:12
24010967-005	G006	Groundwater	1	01/30/2024 12:28
24010967-006	G007	Groundwater	1	01/30/2024 11:17
24010967-007	G008	Groundwater	1	01/30/2024 14:06
24010967-008	G009	Groundwater	1	02/01/2024 10:35
24010967-009	G010	Groundwater	1	01/30/2024 15:07
24010967-010	G011	Groundwater	1	01/30/2024 14:08
24010967-011	G012S	Groundwater	1	02/01/2024 11:17
24010967-012	G012D	Groundwater	1	02/01/2024 12:04
24010967-013	G013S	Groundwater	1	01/31/2024 13:38
24010967-014	G013D	Groundwater	1	01/31/2024 14:41
24010967-015	G016S	Groundwater	1	02/01/2024 12:37
24010967-016	G018S	Groundwater	1	01/31/2024 11:51
24010967-017	G019S	Groundwater	1	01/31/2024 10:01
24010967-018	G019D	Groundwater	1	01/31/2024 10:30
24010967-019	G020S	Groundwater	1	01/30/2024 9:39
24010967-020	G020D	Groundwater	1	01/30/2024 10:00
24010967-021	G021S	Groundwater	1	01/30/2024 9:09
24010967-022	G021D	Groundwater	1	01/30/2024 8:44
24010967-023	G022S	Groundwater	1	01/31/2024 8:30
24010967-024	G022D	Groundwater	1	01/31/2024 8:51
24010967-025	G023S	Groundwater	1	01/31/2024 11:10
24010967-026	G024S	Groundwater	1	01/31/2024 9:27
24010967-027	G051D	Groundwater	1	01/30/2024 11:12
24010967-028	G052D	Groundwater	1	01/31/2024 9:08
24010967-029	G053D	Groundwater	1	01/30/2024 12:52
24010967-030	G054D	Groundwater	1	01/31/2024 11:11
24010967-031	Field Blank	Aqueous	1	02/01/2024 11:42
24010967-032	G052D Duplicate	Groundwater	1	01/31/2024 9:08
24010967-033	G012S Duplicate	Groundwater	1	02/01/2024 11:17
24010967-034	Equipment Blank 1	Aqueous	1	02/01/2024 12:00



Receiving Check List

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

Client: Ramboll

Work Order: 24010967

Client Project: JOP-24Q1

Report Date: 04-Mar-24

Carrier: Tracy Carroll

Received By: AMD

Completed by:

Reviewed by:

On:

On:

01-Feb-24

02-Feb-24

Amber Dilallo

Ellie Hopkins

Pages to follow:

Chain of custody

5

Extra pages included

37

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 1.7

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

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 ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 2/1/2024 9:16:43 AM

Samples were received on 2/1/24 at 1540 (on ice - 9.3C - LTG3). pH strip #90719. AMD 2/2/24

24010967

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 3	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@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 DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WIPE WIP 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		Requested Analysis Filtered (Y/N)																	
																		Requested Analysis Filtered (Y/N)																	
1	G001D		WT		1/29/24	1312		2										X	X																24010967-001
2	G002D		WT		1/29/24	1359		2										X	X															24010967-002	
3	G003		WT		1/30/24	1005		2										X	X															24010967-003	
4	G005		WT		1/31/24	1212		2										X	X															24010967-004	
5	G006		WT		1-30-24	1778		2										X	X															24010967-005	
6	G007		WT		1-30-24	1117		2										X	X															24010967-006	
7	G008		WT		1-30-24	1406		2										X	X															24010967-007	
8	G009		WT					2										X	X															24010967-008	
9	G010		WT		1-30-24	1507		2										X	X															24010967-009	
10	G011		WT		1/30/24	1408		2										X	X															24010967-010	
11	G012S		WT					2												X														24010967-011	
12	G012D		WT					2												X														24010967-012	
13	G013S		WT		1/31/24	1338		2												X														24010967-013	
14	G013D		WT		1/31/24	1441		2												X														24010967-014	
15	G016S		WT					2												X														24010967-015	
16	G018S		WT		1-31-24	1151		2												X														24010967-016	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
JOP-24Q1		Tracy Chord		1/31/24	1930	Gordon D. Ball		1/31/24	1930	Temp in °C: 11.7 Received on ice (Y/N): Y Custody Sealed Cooler (Y/N): Y Samples Intact (Y/N): Y			

PHV 907A SM 2/1/24

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY):
PRINT Name of SAMPLER: Tracy Chord		1/31/24
SIGNATURE of SAMPLER: Tracy Chord		

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Topic Information:

Page: 2 of 3

Company:	Vistra Corp-Joppa	Report To:	Brian Voelker	Attention:	Brian Voelker			
Address:	2100 Portland Road	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp	REGULATORY AGENCY		
	Joppa, IL 62953		Roger Faughn - roger.faughn@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:		Site Location		
Requested Due Date/TAT:	10 day	Project Number:	2285	Project Manager:		STATE:	IL	
				Profile #:				

[illegible]

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: Tracy Card					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 1/31/24				

24010967

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-Joppa**
Address: **2100 Portland Road**
Joppa, IL 62953
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**
Roger Faughn - roger.faughn@vistracorp.com
Purchase Order No.:
Project Name:
Project Number: **2285**

Section C Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #

Section D Required Client Information		Valid Matrix Codes		COLLECTED		PRESERVATIVES		ANALYSIS TEST		REQUESTED ANALYSIS FILTERED (Y/N)		PROJECT NO./ LAB I.D.									
ITEM #	SAMPLE ID (A-Z 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	Residual Chlorine (Y/N)	
1	G105			1-31-24	1355																N/A
2	G107																				N/A
3	G109			1-31-24	1325																N/A
4	G111_LF			1-31-24	1259																N/A
5	XPW01_pore			1/30/24	1214																N/A
6	XPW02_pore			1/29/24	1451																N/A
7	XPW03_pore			1/30/24	1302																N/A
8	XSG01																				N/A
9	YSG03																				N/A
10	Field Blank	WT				2		2							X	X	X				24010967-031
11	G052D Duplicate	WT		1/31/24	908	2		2							X	X					24010967-032
12	G012S Duplicate	WT				2		2									X				24010967-033
13	Equipment Blank 1	WT				2		2							X	X	X				24010967-034
14	Equipment Blank 2	WT				2		2							X	X	X				24010967-035
15	Equipment Blank 3	WT				2		2							X	X	X				24010967-036
16																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-24Q1 Ra226/228, only.	<i>Tracy Carroll</i>	1/31/24	1930	<i>Shawn Daniels</i>	1/31/24	1930	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>Tracy Carroll</i>	DATE Signed (MM/DD/YY): <i>1/31/24</i>
SIGNATURE of SAMPLER: <i>Tracy Carroll</i>	

24010967

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 3	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference		Site Location 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		JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401												
1	G001D	WT				2	2								X	X												24010967-001			
2	G002D	WT				2	2								X	X												24010967-002			
3	G003	WT				2	2								X	X												24010967-003			
4	G005	WT				2	2								X	X												24010967-004			
5	G006	WT				2	2								X	X												24010967-005			
6	G007	WT				2	2								X	X												24010967-006			
7	G008	WT				2	2								X	X												24010967-007			
8	G009	WT	2-1-24	1035		2	2								X	X												24010967-008			
9	G010	WT				2	2								X	X												24010967-009			
10	G011	WT				2	2								X	X												24010967-010			
11	G012S	WT	2-1-24	1117		2	2										X											24010967-011			
12	G012D	WT	2-1-24	1204		2	2										X											24010967-012			
13	G013S	WT				2	2										X											24010967-013			
14	G013D	WT				2	2										X											24010967-014			
15	G016S	WT	2-1-24	1237		2	2										X											24010967-015			
16	G018S	WT				2	2										X											24010967-016			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
JOP-24Q1		J. Colp		2-1		1540		Justin Colp		2/1		1540		9.3 Y N Y		
Ra226/228, only.														UGS		

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Justin Colp		DATE Signed (MM/DD/YY): 2-1-24	
SIGNATURE of SAMPLER: Justin Colp			

PH V 90719 5m 2/4/24

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section C
Invoice Information:

Page: 3 of 3

REGULATORY AGENCY

SAMPLE ID

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 2-1-24

Confidential

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 3/1/2024 6:19:33 PM

JOB DESCRIPTION

Radium-226 and Radium-228
24010967

JOB NUMBER

160-53012-1

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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Authorized for release by
Erika Jordan, Project Manager
erika.jordan@et.eurofinsus.com
(314)298-8566

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-53012-1

Eurofins St. Louis

CASE NARRATIVE

Client: TekLab, Inc

Project: 24010967

Report Number: 160-53012-1

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 2/5/2024 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 3 coolers at receipt time were 18.6°C, 18.6°C and 18.8°C.

Method 903.0 - Radium-226 (GFPC)

Samples 24010967-001 (160-53012-1), 24010967-002 (160-53012-2), 24010967-003 (160-53012-3), 24010967-004 (160-53012-4), 24010967-005 (160-53012-5), 24010967-006 (160-53012-6), 24010967-007 (160-53012-7), 24010967-008 (160-53012-8), 24010967-009 (160-53012-9), 24010967-010 (160-53012-10), 24010967-011 (160-53012-11), 24010967-012 (160-53012-12), 24010967-013 (160-53012-13), 24010967-014 (160-53012-14), 24010967-015 (160-53012-15), 24010967-016 (160-53012-16), 24010967-017 (160-53012-17), 24010967-018 (160-53012-18), 24010967-019 (160-53012-19), 24010967-020 (160-53012-20), 24010967-021 (160-53012-21), 24010967-022 (160-53012-22), 24010967-023 (160-53012-23), 24010967-024 (160-53012-24), 24010967-025 (160-53012-25), 24010967-026 (160-53012-26), 24010967-027 (160-53012-27), 24010967-028 (160-53012-28), 24010967-029 (160-53012-29), 24010967-030 (160-53012-30), 24010967-031 (160-53012-31), 24010967-032 (160-53012-32), 24010967-033 (160-53012-33) and 24010967-034 (160-53012-34) were analyzed for Radium-226 (GFPC). The samples were prepared on 2/7/2024 and analyzed on 2/29/2024.

The Barium carrier recovery is outside the lower control limit (30%) for the following sample: 24010967-004 (160-53012-4). There

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-53012-1 (Continued)

Eurofins St. Louis

was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference. In addition the detection limit was achieved, so the laboratory does not believe this excursion adversely affects the data.

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

Method 904.0 - Radium-228 (GFPC)

Samples 24010967-001 (160-53012-1), 24010967-002 (160-53012-2), 24010967-003 (160-53012-3), 24010967-004 (160-53012-4), 24010967-005 (160-53012-5), 24010967-006 (160-53012-6), 24010967-007 (160-53012-7), 24010967-008 (160-53012-8), 24010967-009 (160-53012-9), 24010967-010 (160-53012-10), 24010967-011 (160-53012-11), 24010967-012 (160-53012-12), 24010967-013 (160-53012-13), 24010967-014 (160-53012-14), 24010967-015 (160-53012-15), 24010967-016 (160-53012-16), 24010967-017 (160-53012-17), 24010967-018 (160-53012-18), 24010967-019 (160-53012-19), 24010967-020 (160-53012-20), 24010967-021 (160-53012-21), 24010967-022 (160-53012-22), 24010967-023 (160-53012-23), 24010967-024 (160-53012-24), 24010967-025 (160-53012-25), 24010967-026 (160-53012-26), 24010967-027 (160-53012-27), 24010967-028 (160-53012-28), 24010967-029 (160-53012-29), 24010967-030 (160-53012-30), 24010967-031 (160-53012-31), 24010967-032 (160-53012-32), 24010967-033 (160-53012-33) and 24010967-034 (160-53012-34) were analyzed for Radium-228 (GFPC). The samples were prepared on 2/7/2024 and analyzed on 2/19/2024.

Batch 160-647150

The Barium carrier recovery is outside the lower control limit (30%) for the following sample: 24010967-004 (160-53012-4). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: 24010967-001 (160-53012-1), 24010967-003 (160-53012-3), 24010967-004 (160-53012-4), 24010967-005 (160-53012-5), 24010967-006 (160-53012-6), 24010967-007 (160-53012-7), 24010967-008 (160-53012-8), 24010967-009 (160-53012-9), 24010967-010 (160-53012-10) and 24010967-011 (160-53012-11). Analytical results are reported with the detection limit achieved.

Batch 647152

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: 24010967-027 (160-53012-27). Analytical results are reported with the detection limit achieved.

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance: 24010967-032 (160-53012-32). 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 24010967-001 (160-53012-1), 24010967-002 (160-53012-2), 24010967-003 (160-53012-3), 24010967-004 (160-53012-4), 24010967-005 (160-53012-5), 24010967-006 (160-53012-6), 24010967-007 (160-53012-7), 24010967-008 (160-53012-8), 24010967-009 (160-53012-9), 24010967-010 (160-53012-10), 24010967-011 (160-53012-11), 24010967-012 (160-53012-12), 24010967-013 (160-53012-13), 24010967-014 (160-53012-14), 24010967-015 (160-53012-15), 24010967-016 (160-53012-16), 24010967-017 (160-53012-17), 24010967-018 (160-53012-18), 24010967-019 (160-53012-19), 24010967-020 (160-53012-20), 24010967-021 (160-53012-21), 24010967-022 (160-53012-22), 24010967-023 (160-53012-23), 24010967-024 (160-53012-24), 24010967-025 (160-53012-25), 24010967-026 (160-53012-26), 24010967-027 (160-53012-27), 24010967-028 (160-53012-28), 24010967-029 (160-53012-29), 24010967-030 (160-53012-30), 24010967-031 (160-53012-31), 24010967-032 (160-53012-32), 24010967-033 (160-53012-33) and 24010967-034 (160-53012-34) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 3/1/2024.

No 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

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level:

Comments:
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# 24010967

Contact: Elizabeth Hurley Email: ehurley@teklabinco.com
Requested Due Date: Standard TAT Billing/PO: 35745

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
	24010967-001	1/29/24 1312	HNO3	Groundwater
	24010967-002	1/29/24 1359	HNO3	Groundwater
	24010967-003	1/30/24 1005	HNO3	Groundwater
	24010967-004	1/31/24 1212	HNO3	Groundwater
	24010967-005	1/30/24 1228	HNO3	Groundwater
	24010967-006	1/30/24 1117	HNO3	Groundwater
	24010967-007	1/30/24 1406	HNO3	Groundwater
	24010967-008	2/1/24 1035	HNO3	Groundwater
	24010967-009	1/30/24 1507	HNO3	Groundwater
	24010967-010	1/30/24 1408	HNO3	Groundwater
	24010967-011	2/1/24 1117	HNO3	Groundwater



160-53012-01 Chain of Custody

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	2/5/24 1220	<i>[Signature]</i>	2/5/24 1220
	2/5/24 1250	M. P. P. P.	FEB 05 2024 1320

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)

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:	Teklab Sampler	QC Level: 2		
Project#		24010967		Comments: Please Issue reports and invoices via email only Please analyze for Radium 22/228 per standard GW methods. Changes to methods must be approved by Teklab, Inc. Batch QC is required for all analyses requested. Excel EDD requested. IL site.					
Contact:		Elizabeth Hurley		Email:		ehurley@teklabinc.com			
Requested Due Date:		Standat TAT		Billing/PO:		35745		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
	24010967-012	2/1/24 1204	HNO3	Groundwater
	24010967-013	1/31/24 1338	HNO3	Groundwater
	24010967-014	1/31/24 1441	HNO3	Groundwater
	24010967-015	2/1/24 1237	HNO3	Groundwater
	24010967-016	1/31/24 1151	HNO3	Groundwater
	24010967-017	1/31/24 1001	HNO3	Groundwater
	24010967-018	1/31/24 1030	HNO3	Groundwater
	24010967-019	1/30/24 0939	HNO3	Groundwater
	24010967-020	1/30/24 1000	HNO3	Groundwater
	24010967-021	1/30/24 0909	HNO3	Groundwater
	24010967-022	1/30/24 0844	HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
Smbourne		M. P. Motta	FEB 05 2024 1320

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 Inc5445 Horseshoe Lake Road
Collinsville, IL 62234Cooler Temp: Sampler: QC Level: 2Comments: **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#

24010967

Contact:

Elizabeth Hurley

Email:

ehurley@teklabinc.com

Requested Due Date:

Standad TAT

Billing/PO:

35745

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
	24010967-023	1/31/24 0830	HNO3	Groundwater
	24010967-024	1/31/24 0851	HNO3	Groundwater
	24010967-025	1/31/24 1110	HNO3	Groundwater
	24010967-026	1/31/24 0927	HNO3	Groundwater
	24010967-027	1/30/24 1112	HNO3	Groundwater
	24010967-028	1/31/24 0908	HNO3	Groundwater
	24010967-029	1/30/24 1252	HNO3	Groundwater
	24010967-030	1/31/24 1111	HNO3	Groundwater
	24010967-031	2/1/24 1142	HNO3	Groundwater
	24010967-032	1/31/24 0908	HNO3	Groundwater
	24010967-033	2/1/24 1117	HNO3	Groundwater

*Relinquished By

Sharon Davis

Date/Time

FEB 26/24

Received By

M. P. Mott

Date/Time

FEB 05 2024 1320

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-53012-1
SDG Number: 24010967

Login Number: 53012

List Number: 1

Creator: Pinette, Meadow L

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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

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

Method Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-53012-1
SDG: 24010967

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND

Job ID: 160-53012-1
Job ID: 160-53012-1
SDG: 24010967

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-53012-1	24010967-001	Water	01/29/24 13:12	02/05/24 13:20
160-53012-2	24010967-002	Water	01/29/24 13:59	02/05/24 13:20
160-53012-3	24010967-003	Water	01/30/24 10:05	02/05/24 13:20
160-53012-4	24010967-004	Water	01/31/24 12:12	02/05/24 13:20
160-53012-5	24010967-005	Water	01/30/24 12:28	02/05/24 13:20
160-53012-6	24010967-006	Water	01/30/24 11:17	02/05/24 13:20
160-53012-7	24010967-007	Water	01/30/24 14:06	02/05/24 13:20
160-53012-8	24010967-008	Water	02/01/24 10:35	02/05/24 13:20
160-53012-9	24010967-009	Water	01/30/24 15:07	02/05/24 13:20
160-53012-10	24010967-010	Water	01/30/24 14:08	02/05/24 13:20
160-53012-11	24010967-011	Water	02/01/24 11:17	02/05/24 13:20
160-53012-12	24010967-012	Water	02/01/24 12:04	02/05/24 13:20
160-53012-13	24010967-013	Water	01/31/24 13:38	02/05/24 13:20
160-53012-14	24010967-014	Water	01/31/24 14:41	02/05/24 13:20
160-53012-15	24010967-015	Water	02/01/24 12:37	02/05/24 13:20
160-53012-16	24010967-016	Water	01/31/24 11:51	02/05/24 13:20
160-53012-17	24010967-017	Water	01/31/24 10:01	02/05/24 13:20
160-53012-18	24010967-018	Water	01/31/24 10:30	02/05/24 13:20
160-53012-19	24010967-019	Water	01/30/24 09:39	02/05/24 13:20
160-53012-20	24010967-020	Water	01/30/24 10:00	02/05/24 13:20
160-53012-21	24010967-021	Water	01/30/24 09:09	02/05/24 13:20
160-53012-22	24010967-022	Water	01/30/24 08:44	02/05/24 13:20
160-53012-23	24010967-023	Water	01/31/24 08:30	02/05/24 13:20
160-53012-24	24010967-024	Water	01/31/24 08:51	02/05/24 13:20
160-53012-25	24010967-025	Water	01/31/24 11:10	02/05/24 13:20
160-53012-26	24010967-026	Water	01/31/24 09:27	02/05/24 13:20
160-53012-27	24010967-027	Water	01/30/24 11:12	02/05/24 13:20
160-53012-28	24010967-028	Water	01/31/24 09:08	02/05/24 13:20
160-53012-29	24010967-029	Water	01/30/24 12:52	02/05/24 13:20
160-53012-30	24010967-030	Water	01/31/24 11:11	02/05/24 13:20
160-53012-31	24010967-031	Water	02/01/24 11:42	02/05/24 13:20
160-53012-32	24010967-032	Water	01/31/24 09:08	02/05/24 13:20
160-53012-33	24010967-033	Water	02/01/24 11:17	02/05/24 13:20
160-53012-34	24010967-034	Water	02/01/24 12:00	02/05/24 13:20

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-001

Lab Sample ID: 160-53012-1

Date Collected: 01/29/24 13:12

Matrix: Water

Date Received: 02/05/24 13:20

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	1.34		0.377	0.396	1.00	0.330	pCi/L	02/07/24 10:42	02/29/24 18:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.3		30 - 110					02/07/24 10:42	02/29/24 18:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.51	G	1.33	1.39	1.00	1.43	pCi/L	02/07/24 10:51	02/19/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.3		30 - 110					02/07/24 10:51	02/19/24 11:43	1
Y Carrier	83.0		30 - 110					02/07/24 10:51	02/19/24 11:43	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	5.85		1.38	1.45	5.00	1.43	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-002

Lab Sample ID: 160-53012-2

Date Collected: 01/29/24 13:59

Matrix: Water

Date Received: 02/05/24 13:20

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	0.436		0.119	0.125	1.00	0.0890	pCi/L	02/07/24 10:42	02/29/24 18:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/07/24 10:42	02/29/24 18:58	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.532		0.317	0.321	1.00	0.450	pCi/L	02/07/24 10:51	02/19/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/07/24 10:51	02/19/24 11:43	1
Y Carrier	85.6		30 - 110					02/07/24 10:51	02/19/24 11:43	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	0.968		0.339	0.344	5.00	0.450	pCi/L		03/01/24 17:17	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-003

Lab Sample ID: 160-53012-3

Date Collected: 01/30/24 10:05

Matrix: Water

Date Received: 02/05/24 13:20

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	0.254	U	0.354	0.355	1.00	0.597	pCi/L	02/07/24 10:42	02/29/24 18:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	40.0		30 - 110					02/07/24 10:42	02/29/24 18:58	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	-0.306	U G	1.28	1.28	1.00	2.48	pCi/L	02/07/24 10:51	02/19/24 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	40.0		30 - 110					02/07/24 10:51	02/19/24 11:53	1
Y Carrier	87.1		30 - 110					02/07/24 10:51	02/19/24 11:53	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	0.254	U	1.33	1.33	5.00	2.48	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-004

Lab Sample ID: 160-53012-4

Date Collected: 01/31/24 12:12

Matrix: Water

Date Received: 02/05/24 13:20

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	0.562	U	0.557	0.559	1.00	0.881	pCi/L	02/07/24 10:42	02/29/24 18:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	23.8	X	30 - 110					02/07/24 10:42	02/29/24 18:58	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	2.81	U G	2.40	2.42	1.00	3.74	pCi/L	02/07/24 10:51	02/19/24 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	23.8	X	30 - 110					02/07/24 10:51	02/19/24 11:53	1
Y Carrier	83.4		30 - 110					02/07/24 10:51	02/19/24 11:53	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	3.38	U	2.46	2.48	5.00	3.74	pCi/L		03/01/24 17:17	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-005

Lab Sample ID: 160-53012-5

Date Collected: 01/30/24 12:28

Matrix: Water

Date Received: 02/05/24 13:20

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	0.805		0.341	0.349	1.00	0.368	pCi/L	02/07/24 10:42	02/29/24 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	44.0		30 - 110					02/07/24 10:42	02/29/24 18:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.27	G	1.87	1.91	1.00	2.52	pCi/L	02/07/24 10:51	02/19/24 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	44.0		30 - 110					02/07/24 10:51	02/19/24 11:53	1
Y Carrier	79.3		30 - 110					02/07/24 10:51	02/19/24 11:53	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	5.08		1.90	1.94	5.00	2.52	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-006

Lab Sample ID: 160-53012-6

Date Collected: 01/30/24 11:17

Matrix: Water

Date Received: 02/05/24 13:20

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	0.884		0.369	0.377	1.00	0.379	pCi/L	02/07/24 10:42	02/29/24 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	39.8		30 - 110					02/07/24 10:42	02/29/24 18:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.25	U G	1.73	1.75	1.00	2.67	pCi/L	02/07/24 10:51	02/19/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	39.8		30 - 110					02/07/24 10:51	02/19/24 11:54	1
Y Carrier	80.4		30 - 110					02/07/24 10:51	02/19/24 11:54	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	3.14		1.77	1.79	5.00	2.67	pCi/L		03/01/24 17:17	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-007

Lab Sample ID: 160-53012-7

Date Collected: 01/30/24 14:06

Matrix: Water

Date Received: 02/05/24 13:20

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	0.441		0.235	0.238	1.00	0.266	pCi/L	02/07/24 10:42	02/29/24 18:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		30 - 110					02/07/24 10:42	02/29/24 18:52	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	2.57	G	1.35	1.37	1.00	1.90	pCi/L	02/07/24 10:51	02/19/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		30 - 110					02/07/24 10:51	02/19/24 11:54	1
Y Carrier	84.5		30 - 110					02/07/24 10:51	02/19/24 11:54	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	3.01		1.37	1.39	5.00	1.90	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-008

Lab Sample ID: 160-53012-8

Date Collected: 02/01/24 10:35

Matrix: Water

Date Received: 02/05/24 13:20

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	0.647		0.335	0.340	1.00	0.368	pCi/L	02/07/24 10:42	02/29/24 18:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	34.5		30 - 110					02/07/24 10:42	02/29/24 18:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.62	U G	1.98	1.99	1.00	3.27	pCi/L	02/07/24 10:51	02/19/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	34.5		30 - 110					02/07/24 10:51	02/19/24 11:54	1
Y Carrier	75.1		30 - 110					02/07/24 10:51	02/19/24 11:54	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	2.27	U	2.01	2.02	5.00	3.27	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-009

Lab Sample ID: 160-53012-9

Date Collected: 01/30/24 15:07

Matrix: Water

Date Received: 02/05/24 13:20

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	0.606		0.291	0.296	1.00	0.344	pCi/L	02/07/24 10:42	02/29/24 18:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.0		30 - 110					02/07/24 10:42	02/29/24 18:52	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	2.62	G	1.32	1.34	1.00	1.82	pCi/L	02/07/24 10:51	02/19/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.0		30 - 110					02/07/24 10:51	02/19/24 11:55	1
Y Carrier	86.7		30 - 110					02/07/24 10:51	02/19/24 11:55	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	3.22		1.35	1.37	5.00	1.82	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-010

Lab Sample ID: 160-53012-10

Date Collected: 01/30/24 14:08

Matrix: Water

Date Received: 02/05/24 13:20

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	0.428		0.296	0.299	1.00	0.395	pCi/L	02/07/24 10:42	02/29/24 18:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	36.8		30 - 110					02/07/24 10:42	02/29/24 18:52	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	1.90	U G	1.86	1.86	1.00	2.98	pCi/L	02/07/24 10:51	02/19/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	36.8		30 - 110					02/07/24 10:51	02/19/24 11:55	1
Y Carrier	81.9		30 - 110					02/07/24 10:51	02/19/24 11:55	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	2.33	U	1.88	1.88	5.00	2.98	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-011

Lab Sample ID: 160-53012-11

Date Collected: 02/01/24 11:17

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0672	U	0.157	0.157	1.00	0.290	pCi/L	02/07/24 10:42	02/29/24 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.8		30 - 110					02/07/24 10:42	02/29/24 20:36	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	1.55	U G	1.16	1.17	1.00	1.77	pCi/L	02/07/24 10:51	02/19/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.8		30 - 110					02/07/24 10:51	02/19/24 11:55	1
Y Carrier	77.4		30 - 110					02/07/24 10:51	02/19/24 11:55	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	1.62	U	1.17	1.18	5.00	1.77	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-012

Lab Sample ID: 160-53012-12

Date Collected: 02/01/24 12:04

Matrix: Water

Date Received: 02/05/24 13:20

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	-0.000699	U	0.0415	0.0415	1.00	0.0896	pCi/L	02/07/24 10:42	02/29/24 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					02/07/24 10:42	02/29/24 20:36	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	0.899		0.369	0.378	1.00	0.467	pCi/L	02/07/24 10:51	02/19/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					02/07/24 10:51	02/19/24 11:55	1
Y Carrier	86.0		30 - 110					02/07/24 10:51	02/19/24 11:55	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		0.371	0.380	5.00	0.467	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-013

Lab Sample ID: 160-53012-13

Date Collected: 01/31/24 13:38

Matrix: Water

Date Received: 02/05/24 13:20

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	-0.0141	U	0.0303	0.0304	1.00	0.0810	pCi/L	02/07/24 10:42	02/29/24 20:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					02/07/24 10:42	02/29/24 20:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.228	U	0.274	0.275	1.00	0.453	pCi/L	02/07/24 10:51	02/19/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					02/07/24 10:51	02/19/24 11:55	1
Y Carrier	84.9		30 - 110					02/07/24 10:51	02/19/24 11:55	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	0.228	U	0.276	0.277	5.00	0.453	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-014

Lab Sample ID: 160-53012-14

Date Collected: 01/31/24 14:41

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0590	U	0.0529	0.0532	1.00	0.0769	pCi/L	02/07/24 10:42	02/29/24 20:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					02/07/24 10:42	02/29/24 20:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.816		0.379	0.386	1.00	0.514	pCi/L	02/07/24 10:51	02/19/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					02/07/24 10:51	02/19/24 11:56	1
Y Carrier	85.6		30 - 110					02/07/24 10:51	02/19/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.875		0.383	0.390	5.00	0.514	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-015

Lab Sample ID: 160-53012-15

Date Collected: 02/01/24 12:37

Matrix: Water

Date Received: 02/05/24 13:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0678	U	0.0657	0.0660	1.00	0.102	pCi/L	02/07/24 10:42	02/29/24 20:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		30 - 110					02/07/24 10:42	02/29/24 20:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.23		0.434	0.449	1.00	0.531	pCi/L	02/07/24 10:51	02/19/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		30 - 110					02/07/24 10:51	02/19/24 11:56	1
Y Carrier	81.9		30 - 110					02/07/24 10:51	02/19/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.30		0.439	0.454	5.00	0.531	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-016

Lab Sample ID: 160-53012-16

Date Collected: 01/31/24 11:51

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0794	0.0798	1.00	0.117	pCi/L	02/07/24 10:42	02/29/24 20:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					02/07/24 10:42	02/29/24 20:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.46		0.521	0.538	1.00	0.615	pCi/L	02/07/24 10:51	02/19/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					02/07/24 10:51	02/19/24 11:56	1
Y Carrier	84.5		30 - 110					02/07/24 10:51	02/19/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.55		0.527	0.544	5.00	0.615	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-017

Lab Sample ID: 160-53012-17

Date Collected: 01/31/24 10:01

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0997	U	0.0744	0.0749	1.00	0.106	pCi/L	02/07/24 10:42	02/29/24 20:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					02/07/24 10:42	02/29/24 20:48	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	0.813		0.406	0.413	1.00	0.557	pCi/L	02/07/24 10:51	02/19/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		30 - 110					02/07/24 10:51	02/19/24 11:56	1
Y Carrier	81.9		30 - 110					02/07/24 10:51	02/19/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.912		0.413	0.420	5.00	0.557	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-018

Lab Sample ID: 160-53012-18

Date Collected: 01/31/24 10:30

Matrix: Water

Date Received: 02/05/24 13:20

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	0.223		0.0958	0.0978	1.00	0.108	pCi/L	02/07/24 10:42	02/29/24 20:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					02/07/24 10:42	02/29/24 20:48	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	1.41		0.469	0.487	1.00	0.564	pCi/L	02/07/24 10:51	02/19/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					02/07/24 10:51	02/19/24 11:56	1
Y Carrier	80.7		30 - 110					02/07/24 10:51	02/19/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.63		0.479	0.497	5.00	0.564	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-019

Lab Sample ID: 160-53012-19

Date Collected: 01/30/24 09:39

Matrix: Water

Date Received: 02/05/24 13:20

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	0.145		0.0754	0.0765	1.00	0.0871	pCi/L	02/07/24 10:52	02/29/24 16:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					02/07/24 10:52	02/29/24 16:32	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	1.03		0.417	0.428	1.00	0.528	pCi/L	02/07/24 10:55	02/19/24 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					02/07/24 10:55	02/19/24 11:57	1
Y Carrier	77.0		30 - 110					02/07/24 10:55	02/19/24 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.18		0.424	0.435	5.00	0.528	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-020

Lab Sample ID: 160-53012-20

Date Collected: 01/30/24 10:00

Matrix: Water

Date Received: 02/05/24 13:20

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	0.240		0.0994	0.102	1.00	0.112	pCi/L	02/07/24 10:52	02/29/24 16:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					02/07/24 10:52	02/29/24 16:32	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	1.30		0.502	0.516	1.00	0.680	pCi/L	02/07/24 10:55	02/19/24 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					02/07/24 10:55	02/19/24 11:57	1
Y Carrier	83.7		30 - 110					02/07/24 10:55	02/19/24 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.54		0.512	0.526	5.00	0.680	pCi/L		03/01/24 17:17	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-021

Lab Sample ID: 160-53012-21

Date Collected: 01/30/24 09:09

Matrix: Water

Date Received: 02/05/24 13:20

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	0.142		0.0924	0.0933	1.00	0.130	pCi/L	02/07/24 10:52	02/29/24 16:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/07/24 10:52	02/29/24 16:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.207	U	0.283	0.284	1.00	0.475	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	87.5		30 - 110					02/07/24 10:55	02/19/24 11:51	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	0.349	U	0.298	0.299	5.00	0.475	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-022

Lab Sample ID: 160-53012-22

Date Collected: 01/30/24 08:44

Matrix: Water

Date Received: 02/05/24 13:20

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	0.234		0.117	0.119	1.00	0.146	pCi/L	02/07/24 10:52	02/29/24 16:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					02/07/24 10:52	02/29/24 16:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.916		0.489	0.496	1.00	0.695	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	87.5		30 - 110					02/07/24 10:55	02/19/24 11:51	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	1.15		0.503	0.510	5.00	0.695	pCi/L		03/01/24 17:17	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-023

Lab Sample ID: 160-53012-23

Date Collected: 01/31/24 08:30

Matrix: Water

Date Received: 02/05/24 13:20

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	0.298		0.106	0.110	1.00	0.108	pCi/L	02/07/24 10:52	02/29/24 16:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/07/24 10:52	02/29/24 16:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.671		0.378	0.383	1.00	0.539	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	84.9		30 - 110					02/07/24 10:55	02/19/24 11:51	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	0.969		0.393	0.398	5.00	0.539	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-024

Lab Sample ID: 160-53012-24

Date Collected: 01/31/24 08:51

Matrix: Water

Date Received: 02/05/24 13:20

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	0.217		0.0986	0.101	1.00	0.119	pCi/L	02/07/24 10:52	02/29/24 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					02/07/24 10:52	02/29/24 16:27	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	0.537		0.354	0.357	1.00	0.527	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	83.7		30 - 110					02/07/24 10:55	02/19/24 11:51	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	0.754		0.367	0.371	5.00	0.527	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-025

Lab Sample ID: 160-53012-25

Date Collected: 01/31/24 11:10

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0776	0.0781	1.00	0.113	pCi/L	02/07/24 10:52	02/29/24 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					02/07/24 10:52	02/29/24 16:27	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	0.610		0.353	0.357	1.00	0.508	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	86.0		30 - 110					02/07/24 10:55	02/19/24 11:51	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	0.713		0.361	0.365	5.00	0.508	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-026

Lab Sample ID: 160-53012-26

Date Collected: 01/31/24 09:27

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0786	U	0.108	0.108	1.00	0.182	pCi/L	02/07/24 10:52	02/29/24 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		30 - 110					02/07/24 10:52	02/29/24 16:27	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	0.502	U	0.529	0.531	1.00	0.857	pCi/L	02/07/24 10:55	02/19/24 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		30 - 110					02/07/24 10:55	02/19/24 11:52	1
Y Carrier	85.2		30 - 110					02/07/24 10:55	02/19/24 11:52	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	0.580	U	0.540	0.542	5.00	0.857	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-027

Lab Sample ID: 160-53012-27

Date Collected: 01/30/24 11:12

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0943	U	0.205	0.205	1.00	0.372	pCi/L	02/07/24 10:52	02/29/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	46.5		30 - 110					02/07/24 10:52	02/29/24 16:31	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	1.66	U G	1.30	1.31	1.00	2.01	pCi/L	02/07/24 10:55	02/19/24 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	46.5		30 - 110					02/07/24 10:55	02/19/24 11:52	1
Y Carrier	86.0		30 - 110					02/07/24 10:55	02/19/24 11:52	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	1.75	U	1.32	1.33	5.00	2.01	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-028

Lab Sample ID: 160-53012-28

Date Collected: 01/31/24 09:08

Matrix: Water

Date Received: 02/05/24 13:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.425		0.128	0.133	1.00	0.116	pCi/L	02/07/24 10:52	02/29/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					02/07/24 10:52	02/29/24 16:31	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	1.36		0.490	0.506	1.00	0.617	pCi/L	02/07/24 10:55	02/19/24 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					02/07/24 10:55	02/19/24 11:52	1
Y Carrier	83.0		30 - 110					02/07/24 10:55	02/19/24 11:52	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	1.79		0.506	0.523	5.00	0.617	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-029

Lab Sample ID: 160-53012-29

Date Collected: 01/30/24 12:52

Matrix: Water

Date Received: 02/05/24 13:20

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	0.300		0.133	0.136	1.00	0.155	pCi/L	02/07/24 10:52	02/29/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					02/07/24 10:52	02/29/24 16:31	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	0.498	U	0.459	0.461	1.00	0.728	pCi/L	02/07/24 10:55	02/19/24 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					02/07/24 10:55	02/19/24 11:52	1
Y Carrier	84.1		30 - 110					02/07/24 10:55	02/19/24 11:52	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	0.798		0.478	0.481	5.00	0.728	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-030

Lab Sample ID: 160-53012-30

Date Collected: 01/31/24 11:11

Matrix: Water

Date Received: 02/05/24 13:20

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	0.137		0.0901	0.0910	1.00	0.126	pCi/L	02/07/24 10:52	02/29/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					02/07/24 10:52	02/29/24 16:31	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	0.455	U	0.347	0.349	1.00	0.528	pCi/L	02/07/24 10:55	02/19/24 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					02/07/24 10:55	02/19/24 11:52	1
Y Carrier	80.0		30 - 110					02/07/24 10:55	02/19/24 11:52	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	0.592		0.359	0.361	5.00	0.528	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-031

Lab Sample ID: 160-53012-31

Date Collected: 02/01/24 11:42

Matrix: Water

Date Received: 02/05/24 13:20

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	-0.0258	U	0.0704	0.0705	1.00	0.152	pCi/L	02/07/24 10:52	02/29/24 16:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					02/07/24 10:52	02/29/24 16:32	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		0.392	0.396	1.00	0.568	pCi/L	02/07/24 10:55	02/19/24 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					02/07/24 10:55	02/19/24 11:53	1
Y Carrier	82.6		30 - 110					02/07/24 10:55	02/19/24 11:53	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	0.608		0.398	0.402	5.00	0.568	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-032

Lab Sample ID: 160-53012-32

Date Collected: 01/31/24 09:08

Matrix: Water

Date Received: 02/05/24 13:20

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	0.428		0.153	0.158	1.00	0.153	pCi/L	02/07/24 10:52	02/29/24 18:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.8		30 - 110					02/07/24 10:52	02/29/24 18:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08	G	0.694	0.701	1.00	1.04	pCi/L	02/07/24 10:55	02/19/24 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.8		30 - 110					02/07/24 10:55	02/19/24 11:53	1
Y Carrier	77.4		30 - 110					02/07/24 10:55	02/19/24 11:53	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	1.51		0.711	0.719	5.00	1.04	pCi/L		03/01/24 17:17	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Client Sample ID: 24010967-033

Lab Sample ID: 160-53012-33

Date Collected: 02/01/24 11:17

Matrix: Water

Date Received: 02/05/24 13:20

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	0.173	U	0.145	0.146	1.00	0.216	pCi/L	02/07/24 10:52	02/29/24 18:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/07/24 10:52	02/29/24 18:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.69		0.703	0.719	1.00	0.873	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	84.9		30 - 110					02/07/24 10:55	02/19/24 11:51	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	1.86		0.718	0.734	5.00	0.873	pCi/L		03/01/24 17:17	1

Client Sample ID: 24010967-034

Lab Sample ID: 160-53012-34

Date Collected: 02/01/24 12:00

Matrix: Water

Date Received: 02/05/24 13:20

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	0.0354	U	0.0636	0.0637	1.00	0.112	pCi/L	02/07/24 10:52	02/29/24 18:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/07/24 10:52	02/29/24 18:52	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	0.539		0.338	0.342	1.00	0.490	pCi/L	02/07/24 10:55	02/19/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/07/24 10:55	02/19/24 11:51	1
Y Carrier	82.2		30 - 110					02/07/24 10:55	02/19/24 11:51	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	0.574		0.344	0.348	5.00	0.490	pCi/L		03/01/24 17:17	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-647146/1-A
Matrix: Water
Analysis Batch: 650277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647146

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.008505	U	0.0468	0.0468	1.00	0.0938	pCi/L	02/07/24 10:42	02/29/24 18:57	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					02/07/24 10:42	02/29/24 18:57	1

Lab Sample ID: LCS 160-647146/2-A
Matrix: Water
Analysis Batch: 650277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647146

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	11.60		1.19	1.00	0.0970	pCi/L	102	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	99.0		30 - 110							

Lab Sample ID: 160-53012-2 DU
Matrix: Water
Analysis Batch: 650277

Client Sample ID: 24010967-002
Prep Type: Total/NA
Prep Batch: 647146

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.436		0.2492		0.100	1.00	0.107	pCi/L	0.83	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	101		30 - 110							

Lab Sample ID: MB 160-647151/1-A
Matrix: Water
Analysis Batch: 650277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647151

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04744	U	0.0611	0.0612	1.00	0.101	pCi/L	02/07/24 10:52	02/29/24 16:32	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					02/07/24 10:52	02/29/24 16:32	1

Lab Sample ID: LCS 160-647151/2-A
Matrix: Water
Analysis Batch: 650277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647151

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.84		1.13	1.00	0.112	pCi/L	96	75 - 125

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

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

Lab Sample ID: LCS 160-647151/2-A
Matrix: Water
Analysis Batch: 650277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647151

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.5		30 - 110

Lab Sample ID: 160-53012-20 DU
Matrix: Water
Analysis Batch: 650277

Client Sample ID: 24010967-020
Prep Type: Total/NA
Prep Batch: 647151

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.240		0.2562		0.114	1.00	0.139	pCi/L	0.07	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.8		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-647150/1-A
Matrix: Water
Analysis Batch: 648636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647150

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.006506	U	0.277	0.277	1.00	0.518	pCi/L	02/07/24 10:51	02/19/24 11:42	1

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.3		30 - 110
Y Carrier	83.4		30 - 110

	Prepared	Analyzed	Dil Fac
Ba Carrier	02/07/24 10:51	02/19/24 11:42	1
Y Carrier	02/07/24 10:51	02/19/24 11:42	1

Lab Sample ID: LCS 160-647150/2-A
Matrix: Water
Analysis Batch: 648636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647150

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.20	9.449		1.24	1.00	0.420	pCi/L	103	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	99.0		30 - 110
Y Carrier	88.6		30 - 110

Lab Sample ID: 160-53012-2 DU
Matrix: Water
Analysis Batch: 648636

Client Sample ID: 24010967-002
Prep Type: Total/NA
Prep Batch: 647150

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.532		0.4490	U	0.309	1.00	0.454	pCi/L	0.13	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

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

Lab Sample ID: 160-53012-2 DU
Matrix: Water
Analysis Batch: 648636

Client Sample ID: 24010967-002
Prep Type: Total/NA
Prep Batch: 647150

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	101		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: MB 160-647152/1-A
Matrix: Water
Analysis Batch: 648636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647152

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5416	U	0.516	0.518	1.00	0.822	pCi/L	02/07/24 10:55	02/19/24 15:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					02/07/24 10:55	02/19/24 15:41	1
Y Carrier	86.7		30 - 110					02/07/24 10:55	02/19/24 15:41	1

Lab Sample ID: LCS 160-647152/2-A
Matrix: Water
Analysis Batch: 648806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647152

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.20	10.14		1.33	1.00	0.542	pCi/L	110	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	98.5		30 - 110						
Y Carrier	89.0		30 - 110						

Lab Sample ID: 160-53012-20 DU
Matrix: Water
Analysis Batch: 648807

Client Sample ID: 24010967-020
Prep Type: Total/NA
Prep Batch: 647152

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	1.30		0.7322		0.371	1.00	0.509	pCi/L	0.64	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.8		30 - 110							
Y Carrier	87.1		30 - 110							

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
LOPPA POWER PLANT, EAST ASH POND

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-53012-1
SDG: 24010967

Rad

Prep Batch: 647146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53012-1	24010967-001	Total/NA	Water	PrecSep-21	
160-53012-2	24010967-002	Total/NA	Water	PrecSep-21	
160-53012-3	24010967-003	Total/NA	Water	PrecSep-21	
160-53012-4	24010967-004	Total/NA	Water	PrecSep-21	
160-53012-5	24010967-005	Total/NA	Water	PrecSep-21	
160-53012-6	24010967-006	Total/NA	Water	PrecSep-21	
160-53012-7	24010967-007	Total/NA	Water	PrecSep-21	
160-53012-8	24010967-008	Total/NA	Water	PrecSep-21	
160-53012-9	24010967-009	Total/NA	Water	PrecSep-21	
160-53012-10	24010967-010	Total/NA	Water	PrecSep-21	
160-53012-11	24010967-011	Total/NA	Water	PrecSep-21	
160-53012-12	24010967-012	Total/NA	Water	PrecSep-21	
160-53012-13	24010967-013	Total/NA	Water	PrecSep-21	
160-53012-14	24010967-014	Total/NA	Water	PrecSep-21	
160-53012-15	24010967-015	Total/NA	Water	PrecSep-21	
160-53012-16	24010967-016	Total/NA	Water	PrecSep-21	
160-53012-17	24010967-017	Total/NA	Water	PrecSep-21	
160-53012-18	24010967-018	Total/NA	Water	PrecSep-21	
MB 160-647146/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647146/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-53012-2 DU	24010967-002	Total/NA	Water	PrecSep-21	

Prep Batch: 647150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53012-1	24010967-001	Total/NA	Water	PrecSep_0	
160-53012-2	24010967-002	Total/NA	Water	PrecSep_0	
160-53012-3	24010967-003	Total/NA	Water	PrecSep_0	
160-53012-4	24010967-004	Total/NA	Water	PrecSep_0	
160-53012-5	24010967-005	Total/NA	Water	PrecSep_0	
160-53012-6	24010967-006	Total/NA	Water	PrecSep_0	
160-53012-7	24010967-007	Total/NA	Water	PrecSep_0	
160-53012-8	24010967-008	Total/NA	Water	PrecSep_0	
160-53012-9	24010967-009	Total/NA	Water	PrecSep_0	
160-53012-10	24010967-010	Total/NA	Water	PrecSep_0	
160-53012-11	24010967-011	Total/NA	Water	PrecSep_0	
160-53012-12	24010967-012	Total/NA	Water	PrecSep_0	
160-53012-13	24010967-013	Total/NA	Water	PrecSep_0	
160-53012-14	24010967-014	Total/NA	Water	PrecSep_0	
160-53012-15	24010967-015	Total/NA	Water	PrecSep_0	
160-53012-16	24010967-016	Total/NA	Water	PrecSep_0	
160-53012-17	24010967-017	Total/NA	Water	PrecSep_0	
160-53012-18	24010967-018	Total/NA	Water	PrecSep_0	
MB 160-647150/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647150/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-53012-2 DU	24010967-002	Total/NA	Water	PrecSep_0	

Prep Batch: 647151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53012-19	24010967-019	Total/NA	Water	PrecSep-21	
160-53012-20	24010967-020	Total/NA	Water	PrecSep-21	
160-53012-21	24010967-021	Total/NA	Water	PrecSep-21	

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QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53012-1
SDG: 24010967

Rad (Continued)

Prep Batch: 647151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53012-22	24010967-022	Total/NA	Water	PrecSep-21	
160-53012-23	24010967-023	Total/NA	Water	PrecSep-21	
160-53012-24	24010967-024	Total/NA	Water	PrecSep-21	
160-53012-25	24010967-025	Total/NA	Water	PrecSep-21	
160-53012-26	24010967-026	Total/NA	Water	PrecSep-21	
160-53012-27	24010967-027	Total/NA	Water	PrecSep-21	
160-53012-28	24010967-028	Total/NA	Water	PrecSep-21	
160-53012-29	24010967-029	Total/NA	Water	PrecSep-21	
160-53012-30	24010967-030	Total/NA	Water	PrecSep-21	
160-53012-31	24010967-031	Total/NA	Water	PrecSep-21	
160-53012-32	24010967-032	Total/NA	Water	PrecSep-21	
160-53012-33	24010967-033	Total/NA	Water	PrecSep-21	
160-53012-34	24010967-034	Total/NA	Water	PrecSep-21	
MB 160-647151/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647151/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-53012-20 DU	24010967-020	Total/NA	Water	PrecSep-21	

Prep Batch: 647152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53012-19	24010967-019	Total/NA	Water	PrecSep_0	
160-53012-20	24010967-020	Total/NA	Water	PrecSep_0	
160-53012-21	24010967-021	Total/NA	Water	PrecSep_0	
160-53012-22	24010967-022	Total/NA	Water	PrecSep_0	
160-53012-23	24010967-023	Total/NA	Water	PrecSep_0	
160-53012-24	24010967-024	Total/NA	Water	PrecSep_0	
160-53012-25	24010967-025	Total/NA	Water	PrecSep_0	
160-53012-26	24010967-026	Total/NA	Water	PrecSep_0	
160-53012-27	24010967-027	Total/NA	Water	PrecSep_0	
160-53012-28	24010967-028	Total/NA	Water	PrecSep_0	
160-53012-29	24010967-029	Total/NA	Water	PrecSep_0	
160-53012-30	24010967-030	Total/NA	Water	PrecSep_0	
160-53012-31	24010967-031	Total/NA	Water	PrecSep_0	
160-53012-32	24010967-032	Total/NA	Water	PrecSep_0	
160-53012-33	24010967-033	Total/NA	Water	PrecSep_0	
160-53012-34	24010967-034	Total/NA	Water	PrecSep_0	
MB 160-647152/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647152/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-53012-20 DU	24010967-020	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND

Job ID: 160-53012-1
SDG: 24010967

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)	
160-53012-1	24010967-001	61.3	
160-53012-2	24010967-002	92.5	
160-53012-2 DU	24010967-002	101	
160-53012-3	24010967-003	40.0	
160-53012-4	24010967-004	23.8 X	
160-53012-5	24010967-005	44.0	
160-53012-6	24010967-006	39.8	
160-53012-7	24010967-007	52.8	
160-53012-8	24010967-008	34.5	
160-53012-9	24010967-009	52.0	
160-53012-10	24010967-010	36.8	
160-53012-11	24010967-011	57.8	
160-53012-12	24010967-012	95.0	
160-53012-13	24010967-013	95.5	
160-53012-14	24010967-014	94.8	
160-53012-15	24010967-015	96.8	
160-53012-16	24010967-016	94.3	
160-53012-17	24010967-017	90.8	
160-53012-18	24010967-018	93.5	
160-53012-19	24010967-019	95.8	
160-53012-20	24010967-020	95.0	
160-53012-20 DU	24010967-020	97.8	
160-53012-21	24010967-021	97.8	
160-53012-22	24010967-022	93.5	
160-53012-23	24010967-023	88.8	
160-53012-24	24010967-024	93.3	
160-53012-25	24010967-025	95.5	
160-53012-26	24010967-026	73.8	
160-53012-27	24010967-027	46.5	
160-53012-28	24010967-028	85.3	
160-53012-29	24010967-029	88.0	
160-53012-30	24010967-030	89.5	
160-53012-31	24010967-031	76.3	
160-53012-32	24010967-032	57.8	
160-53012-33	24010967-033	93.0	
160-53012-34	24010967-034	92.5	
LCS 160-647146/2-A	Lab Control Sample	99.0	
LCS 160-647151/2-A	Lab Control Sample	98.5	
MB 160-647146/1-A	Method Blank	93.3	
MB 160-647151/1-A	Method Blank	85.8	

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND

Job ID: 160-53012-1
SDG: 24010967

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-53012-1	24010967-001	61.3	83.0
160-53012-2	24010967-002	92.5	85.6
160-53012-2 DU	24010967-002	101	83.0
160-53012-3	24010967-003	40.0	87.1
160-53012-4	24010967-004	23.8 X	83.4
160-53012-5	24010967-005	44.0	79.3
160-53012-6	24010967-006	39.8	80.4
160-53012-7	24010967-007	52.8	84.5
160-53012-8	24010967-008	34.5	75.1
160-53012-9	24010967-009	52.0	86.7
160-53012-10	24010967-010	36.8	81.9
160-53012-11	24010967-011	57.8	77.4
160-53012-12	24010967-012	95.0	86.0
160-53012-13	24010967-013	95.5	84.9
160-53012-14	24010967-014	94.8	85.6
160-53012-15	24010967-015	96.8	81.9
160-53012-16	24010967-016	94.3	84.5
160-53012-17	24010967-017	90.8	81.9
160-53012-18	24010967-018	93.5	80.7
160-53012-19	24010967-019	95.8	77.0
160-53012-20	24010967-020	95.0	83.7
160-53012-20 DU	24010967-020	97.8	87.1
160-53012-21	24010967-021	97.8	87.5
160-53012-22	24010967-022	93.5	87.5
160-53012-23	24010967-023	88.8	84.9
160-53012-24	24010967-024	93.3	83.7
160-53012-25	24010967-025	95.5	86.0
160-53012-26	24010967-026	73.8	85.2
160-53012-27	24010967-027	46.5	86.0
160-53012-28	24010967-028	85.3	83.0
160-53012-29	24010967-029	88.0	84.1
160-53012-30	24010967-030	89.5	80.0
160-53012-31	24010967-031	76.3	82.6
160-53012-32	24010967-032	57.8	77.4
160-53012-33	24010967-033	93.0	84.9
160-53012-34	24010967-034	92.5	82.2
LCS 160-647150/2-A	Lab Control Sample	99.0	88.6
LCS 160-647152/2-A	Lab Control Sample	98.5	89.0
MB 160-647150/1-A	Method Blank	93.3	83.4
MB 160-647152/1-A	Method Blank	85.8	86.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Joppa- 1Q 2024

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	G001D	Groundwater Sample	39.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
002	G002D	Groundwater Sample	39.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
003	G003	Groundwater Sample	39.0	Light	W	Partly cloudy	Good	Good	Good	Yes	Yes
004	G005	Groundwater Sample	44.0	None	S	Clear	Good	Good	Good	Yes	Yes
005	G006	Groundwater Sample	49.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
006	G007	Groundwater Sample	44.0	Light	E	Partly cloudy	Good	Good	Good	Yes	Yes
007	G008	Groundwater Sample	50.0	None	SE	Partly cloudy	Good	Good	Good	Yes	Yes
008	G009	Groundwater Sample	40.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
009	G010	Groundwater Sample	51.0	None	SE	Partly cloudy	Good	Good	Good	Yes	Yes
010	G011	Groundwater Sample	39.0	None	W	Partly cloudy	Good	Good	Good	Yes	Yes
011	G012S	Groundwater Sample	46.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
012	G012D	Groundwater Sample	52.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
013	G013S	Groundwater Sample	44.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
014	G013D	Groundwater Sample	44.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
015	G016S	Groundwater Sample	52.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
016	G018S	Groundwater Sample	45.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
017	G019S	Groundwater Sample	40.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
018	G019D	Groundwater Sample	40.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
019	G020S	Groundwater Sample	42.0	Light	NE	Partly cloudy	Good	Good	Good	Yes	Yes
020	G020D	Groundwater Sample	42.0	Light	NE	Partly cloudy	Good	Good	Good	Yes	Yes
021	G021S	Groundwater Sample	40.0	Light	NE	Partly cloudy	Good	Good	Good	Yes	Yes
022	G021D	Groundwater Sample	38.0	Light	NE	Partly cloudy	Good	Good	Good	Yes	Yes
023	G022S	Groundwater Sample	37.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
024	G022D	Groundwater Sample	37.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
025	G023S	Groundwater Sample	43.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
026	G024S	Groundwater Sample	39.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
027	G051D	Groundwater Sample	39.0	None	W	Partly cloudy	Good	Good	Good	Yes	Yes
028	G052D	Groundwater Sample	39.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
029	G053D	Groundwater Sample	50.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
030	G054D	Groundwater Sample	44.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
031	G101_LF	Groundwater Sample	49.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
032	G102	Groundwater Sample	49.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
033	G105	Groundwater Sample	48.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
034	G107	Groundwater Sample	35.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
035	G109	Groundwater Sample	48.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
036	G111_LF	Groundwater Sample	47.0	None	E	Partly cloudy	Good	Good	Good	Yes	Yes
037	XPW01_pore	Groundwater Sample	39.0	None	W	Partly cloudy	Good	Good	Good	Yes	Yes
038	XPW02_pore	Groundwater Sample	41.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
039	XPW03_pore	Groundwater Sample	39.0	None	W	Partly cloudy	Good	Good	Good	Yes	Yes
040	XSG01	DTW Only	41.0	None	S	Partly cloudy					
041	YSG03	DTW Only	38.0	None	S	Partly cloudy					
042	Field Blank	QA/QC Sample	35.0	None	N	Partly cloudy					

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Summary****Joppa- 1Q 2024**

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
043	G052D Duplicate	QA/QC Sample	39.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
044	G012S Duplicate	QA/QC Sample	46.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
045	Equipment Blank 1	QA/QC Sample	46.0	None	N	Partly cloudy					

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Joppa- 1Q 2024

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	G001D	DC	1/29/24 12:48	44.51	67.10	TAC	1/29/2024	12:52	13:12	Bladder Pump	2"	5.0	250.0
002	G002D	DC	1/29/24 13:41	44.33	75.20	TAC	1/29/2024	13:42	13:59	Bladder Pump	2"	4.5	264.7
003	G003	DC	1/30/24 8:11	37.95	68.03	TAC	1/30/2024	08:15	10:05	Bladder Pump	2"	16.0	145.5
004	G005	TAC	1/31/24 11:45	43.95	62.92	TAC	1/31/2024	11:46	12:12	Bladder Pump	2"	2.5	96.2
005	G006	JC	1/30/24 11:29	40.66	62.76	JC	1/30/2024	11:31	12:28	Bladder Pump	2"	10.0	175.4
006	G007	JC	1/30/24 10:17	40.70	87.64	JC	1/30/2024	10:18	11:17	Bladder Pump	2"	11.0	186.4
007	G008	JC	1/30/24 13:05	30.82	86.82	JC	1/30/2024	13:06	14:06	Bladder Pump	2"	10.0	166.7
008	G009	JC	2/1/24 9:34	37.64	72.51	JC	2/1/2024	09:35	10:35	Bladder Pump	2"	10.0	166.7
009	G010	JC	1/30/24 14:14	38.75	73.04	JC	1/30/2024	14:15	15:07	Bladder Pump	2"	9.0	173.1
010	G011	DC	1/30/24 13:26	47.38	68.90	TAC	1/30/2024	13:27	14:08	Bladder Pump	2"	9.0	219.5
011	G012S	JC	2/1/24 11:02	46.90	72.78	JC	2/1/2024	11:03	11:17	Bladder Pump	2"	2.0	142.9
012	G012D	JC	2/1/24 11:47	46.91	92.96	JC	2/1/2024	11:49	12:04	Bladder Pump	2"	2.0	133.3
013	G013S	DC	1/31/24 13:14	40.00	62.66	TAC	1/31/2024	13:15	13:38	Bladder Pump	2"	4.0	173.9
014	G013D	TAC	1/31/24 13:45	41.92	92.85	TAC	1/31/2024	14:04	14:41	Bladder Pump	2"	6.0	162.2
015	G016S	JC	2/1/24 12:21	40.19	62.72	JC	2/1/2024	12:22	12:37	Bladder Pump	2"	2.0	133.3
016	G018S	JC	1/31/24 11:39	38.29		JC	1/31/2024	11:40	11:51	Bladder Pump	2"	2.5	227.3
017	G019S	JC	1/31/24 9:49	44.40	71.45	JC	1/31/2024	09:49	10:01	Bladder Pump	2"	2.5	208.3
018	G019D	JC	1/31/24 10:02	44.26	96.34	JC	1/31/2024	10:13	10:30	Bladder Pump	2"	2.5	147.1
019	G020S	JC	1/30/24 9:28	40.65	72.68	JC	1/30/2024	09:28	09:39	Bladder Pump	2"	2.0	181.8
020	G020D	JC	1/30/24 9:40	41.16	98.07	JC	1/30/2024	09:45	10:00	Bladder Pump	2"	2.0	133.3
021	G021S	JC	1/30/24 8:48	41.98	73.08	JC	1/30/2024	08:57	09:09	Bladder Pump	2"	2.0	166.7
022	G021D	JC	1/30/24 8:22	41.32	103.00	JC	1/30/2024	08:30	08:44	Bladder Pump	2"	2.5	178.6
023	G022S	JC	1/31/24 8:18	41.36	74.79	JC	1/31/2024	08:19	08:30	Bladder Pump	2"	2.5	227.3
024	G022D	JC	1/31/24 8:37	45.82	116.71	JC	1/31/2024	08:40	08:51	Bladder Pump	2"	2.0	181.8
025	G023S	JC	1/31/24 10:56	45.32		JC	1/31/2024	10:57	11:10	Bladder Pump	2"	2.0	153.8
026	G024S	JC	1/31/24 9:12	45.04		JC	1/31/2024	09:13	09:27	Bladder Pump	2"	2.0	142.9
027	G051D	DC	1/30/24 10:43	44.36	62.70	TAC	1/30/2024	10:45	11:12	Bladder Pump	2"	5.5	203.7
028	G052D	TAC	1/31/24 8:34	29.74	82.50	TAC	1/31/2024	08:37	09:08	Bladder Pump	2"	4.0	129.0
029	G053D	JC	1/30/24 12:42	38.46	60.60	JC	1/30/2024	12:41	12:52	Bladder Pump	2"	2.5	227.3
030	G054D	DC	1/31/24 10:18	39.58	83.50	TAC	1/31/2024	10:20	11:11	Bladder Pump	2"	9.0	176.5
031	G101_LF	JC	1/31/24 14:34	47.10	58.00	JC	1/31/2024	14:35	15:11	Bladder Pump	2"	6.0	166.7
032	G102	JC	1/31/24 14:04	59.63	70.70	JC	1/31/2024	14:04	14:23	Bladder Pump	2"	3.0	157.9
033	G105	JC	1/31/24 13:32	56.19	70.90	JC	1/31/2024	13:33	13:55	Bladder Pump	2"	3.0	136.4
034	G107	JC	2/1/24 8:13	55.20	71.00	JC	2/1/2024	08:15	09:15	Submersible Pump	2"	16.0	266.7
035	G109	JC	1/31/24 13:06	52.78	68.50	JC	1/31/2024	13:07	13:25	Bladder Pump	2"	3.0	166.7
036	G111_LF	JC	1/31/24 12:47	50.41	70.90	JC	1/31/2024	12:48	12:59	Bladder Pump	2"	3.0	272.7
037	XPW01_pore	DC	1/30/24 11:48	2.16	56.31	TAC	1/30/2024	11:52	12:14	Bladder Pump	2"	5.5	250.0
038	XPW02_pore	DC	1/29/24 14:30	2.13	32.52	TAC	1/29/2024	14:31	14:51	Bladder Pump	2"	5.0	250.0
039	XPW03_pore	DC	1/30/24 12:32	12.97	39.57	TAC	1/30/2024	12:34	13:02	Bladder Pump	2"	7.0	250.0
040	XSG01	JC	1/29/24 14:51	N/A									
041	YSG03	JC	1/29/24 11:52	40.53									
042	Field Blank												

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Joppa- 1Q 2024

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)
043	G052D Duplicate	TAC	1/31/24 8:34	29.74	82.50	TAC	1/31/2024	08:37	09:08	Bladder Pump	2"	4.0	129.0
044	G012S Duplicate	JC	2/1/24 11:02	46.90	72.78	JC	2/1/2024	11:03	11:17	Bladder Pump	2"	2.0	142.9
045	Equipment Blank 1												

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Joppa- 1Q 2024

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	G001D	DC	01/29/24	13:12	Low Flow	No	Clear	None	None	44.51	0
002	G002D	DC	01/29/24	13:59	Low Flow	No	Clear	None	None	44.39	0.06
003	G003	DC	01/30/24	10:05	Low Flow	No	Cloudy	None	Rust	39.02	1.07
004	G005	DC	01/31/24	12:12	Low Flow	No	Clear	None	None	45.12	1.17
005	G006	JC	01/30/24	12:28	Low Flow	No	Cloudy	None	rust	41.00	0.34
006	G007	JC	01/30/24	11:17	Low Flow	No	Cloudy	None	rust	41.09	0.39
007	G008	JC	01/30/24	14:06	Low Flow	No	Cloudy	None	rust	30.82	0
008	G009	JC	02/01/24	10:35	Low Flow	No	Cloudy	None	rust	37.64	0
009	G010	JC	01/30/24	15:07	Low Flow	No	Cloudy	None	rust	38.75	0
010	G011	DC	01/30/24	14:08	Low Flow	No	Cloudy	None	rust	47.58	0.2
011	G012S	JC	02/01/24	11:17	Low Flow	No	Slightly cloudy	None	none	47.00	0.1
012	G012D	JC	02/01/24	12:04	Low Flow	No	Clear	None	none	46.98	0.07
013	G013S	DC	01/31/24	13:38	Low Flow	No	Clear	None	None	39.97	-0.03
014	G013D	DC	01/31/24	14:41	Low Flow	No	Clear	None	None	41.89	-0.03
015	G016S	JC	02/01/24	12:37	Low Flow	No	Clear	None	none	40.19	0
016	G018S	JC	01/31/24	11:51	Low Flow	No	Clear	None	none	38.29	0
017	G019S	JC	01/31/24	10:01	Low Flow	No	Clear	None	none	44.40	0
018	G019D	JC	01/31/24	10:30	Low Flow	No	Clear	None	none	44.26	0
019	G020S	JC	01/30/24	09:39	Low Flow	No	Clear	None	none	40.65	0
020	G020D	JC	01/30/24	10:00	Low Flow	No	Clear	None	none	41.16	0
021	G021S	JC	01/30/24	09:09	Low Flow	No	Clear	None	none	41.98	0
022	G021D	JC	01/30/24	08:44	Low Flow	No	Clear	None	none	41.57	0.25
023	G022S	JC	01/31/24	08:30	Low Flow	No	Clear	None	none	41.36	0
024	G022D	JC	01/31/24	08:51	Low Flow	No	Clear	None	none	45.82	0
025	G023S	JC	01/31/24	11:10	Low Flow	No	Clear	None	none	45.32	0
026	G024S	JC	01/31/24	09:27	Low Flow	No	Clear	None	none	45.04	0
027	G051D	DC	01/30/24	11:12	Low Flow	No	Clear	None	None	44.59	0.23
028	G052D	DC	01/31/24	09:08	Low Flow	No	Clear	Slight	None	36.22	6.48
029	G053D	JC	01/30/24	12:52	Low Flow	No	Clear	None	none	38.46	0
030	G054D	DC	01/31/24	11:11	Low Flow	No	Clear	None	None	43.57	3.99
031	G101_LF	JC	01/31/24	15:11	Low Flow	No	Slightly cloudy	None	none	48.56	1.46
032	G102	JC	01/31/24	14:23	Low Flow	No	Clear	None	none	61.20	1.57
033	G105	JC	01/31/24	13:55	Low Flow	No	Clear	None	none	56.19	0
034	G107	JC	02/01/24	09:15	Low Flow	No	Slightly cloudy	None	none	58.98	3.78
035	G109	JC	01/31/24	13:25	Low Flow	No	Clear	None	none	55.81	3.03
036	G111_LF	JC	01/31/24	12:59	Low Flow	No	Clear	None	none	50.41	0
037	XPW01_pore	DC	01/30/24	12:14	Low Flow	No	Clear	None	None	4.52	2.36
038	XPW02_pore	DC	01/29/24	14:51	Low Flow	No	Clear	None	None	2.19	0.06
039	XPW03_pore	DC	01/30/24	13:02	Low Flow	No	Clear	None	None	23.32	10.35
040	XSG01										
041	YSG03										
042	Field Blank	JC	02/01/24	11:42							

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Joppa- 1Q 2024

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)
043	G052D Duplicate	DC	01/31/24	09:08	Low Flow	No	Clear	Slight	None	36.22	6.48
044	G012S Duplicate	JC	02/01/24	11:17	Low Flow	No	Slightly cloudy	None	none	47.00	0.1
045	Equipment Blank 1	JC	02/01/24	12:00							

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Joppa- 1Q 2024

WO Sample	Well ID	COMMENTS
001	G001D	
002	G002D	
003	G003	
004	G005	
005	G006	
006	G007	
007	G008	
008	G009	
009	G010	
010	G011	
011	G012S	
012	G012D	
013	G013S	
014	G013D	
015	G016S	
016	G018S	
017	G019S	
018	G019D	
019	G020S	
020	G020D	
021	G021S	
022	G021D	
023	G022S	
024	G022D	
025	G023S	
026	G024S	
027	G051D	
028	G052D	
029	G053D	
030	G054D	
031	G101_LF	
032	G102	
033	G105	
034	G107	
035	G109	
036	G111_LF	
037	XPW01_pore	
038	XPW02_pore	
039	XPW03_pore	
040	XSG01	Water below bottom of in-place measuring stick
041	YSG03	
042	Field Blank	

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Summary****Joppa- 1Q 2024**

WO Sample	Well ID	COMMENTS
043	G052D Duplicate	
044	G012S Duplicate	
045	Equipment Blank 1	Blank from submersible pump

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary
Joppa- 1Q 2024

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
G001D	1/29/2024	13:12	15.0	59.0	6.45	440.3	1.10	17.11	147.4	44.51	24010966-001A
G002D	1/29/2024	13:59	13.8	56.8	6.42	336.6	2.34	2.95	151.0	44.33	24010966-002A
G003	1/30/2024	10:05	14.2	57.6	6.28	399.2	3.90	339.46	158.7	37.95	24010966-003A
G005	1/31/2024	12:12	15.4	59.7	6.41	538.5	1.29	10.20	89.5	43.95	24010966-004A
G006	1/30/2024	12:28	13.5	56.3	6.56	573.0	1.25	277.42	150.0	40.66	24010966-005A
G007	1/30/2024	11:17	14.3	57.7	6.33	710.3	0.97	276.07	156.3	40.70	24010966-006A
G008	1/30/2024	14:06	14.6	58.3	6.94	735.4	0.77	162.19	137.0	30.82	24010966-007A
G009	2/1/2024	10:35	16.0	60.8	6.03	593.9	2.48	346.90	161.4	37.64	24010966-008A
G010	1/30/2024	15:07	14.1	57.4	6.37	815.7	2.23	311.35	158.0	38.75	24010966-009A
G011	1/30/2024	14:08	15.6	60.1	5.97	558.4	1.38	177.11	126.8	47.38	24010966-010A
G012S	2/1/2024	11:17	14.0	57.2	6.51	547.1	3.78	21.10	147.5	46.90	24010966-011A
G012D	2/1/2024	12:04	14.2	57.6	6.59	548.6	2.71	22.41	145.5	46.91	24010966-012A
G013S	1/31/2024	13:38	14.2	57.6	6.53	549.3	0.95	11.70	127.5	40.00	24010966-013A
G013D	1/31/2024	14:41	14.5	58.1	6.57	547.1	2.23	1.61	137.1	41.92	24010966-014A
G016S	2/1/2024	12:37	14.3	57.7	6.64	752.4	2.76	9.29	146.2	40.19	24010966-015A
G018S	1/31/2024	11:51	15.2	59.4	6.55	391.5	3.84	8.27	151.6	38.29	24010966-016A
G019S	1/31/2024	10:01	14.8	58.6	6.43	501.9	4.78	5.28	153.1	44.40	24010966-017A
G019D	1/31/2024	10:30	15.0	59.0	6.56	401.7	4.65	6.70	151.1	44.26	24010966-018A
G020S	1/30/2024	9:39	13.9	57.0	6.52	470.4	3.91	3.37	150.5	40.65	24010966-019A
G020D	1/30/2024	10:00	12.9	55.2	6.71	489.7	3.02	3.46	149.7	41.16	24010966-020A
G021S	1/30/2024	9:09	13.0	55.4	6.48	750.7	3.24	4.00	162.1	41.98	24010966-021A
G021D	1/30/2024	8:44	12.9	55.2	6.41	616.1	2.23	21.74	158.0	41.32	24010966-022A
G022S	1/31/2024	8:30	14.6	58.3	6.18	408.7	4.34	13.62	146.9	41.36	24010966-023A
G022D	1/31/2024	8:51	14.5	58.1	6.43	302.0	2.22	6.16	152.3	45.82	24010966-024A
G023S	1/31/2024	11:10	14.5	58.1	6.54	334.9	4.72	16.42	149.9	45.32	24010966-025A
G024S	1/31/2024	9:27	14.9	58.8	6.98	211.3	2.83	13.81	137.6	45.04	24010966-026A
G051D	1/30/2024	11:12	15.6	60.1	5.49	341.2	3.54	54.34	188.2	44.36	24010966-027A
G052D	1/31/2024	9:08	11.8	53.2	6.30	368.0	1.51	2.51	-55.6	29.74	24010966-028A
G053D	1/30/2024	12:52	15.0	59.0	6.49	395.8	1.78	7.12	150.2	38.46	24010966-029A
G054D	1/31/2024	11:11	14.7	58.5	6.48	687.5	0.73	6.88	17.5	39.58	24010966-030A
G101_LF	1/31/2024	15:11	14.6	58.3	6.47	258.8	6.77	55.18	154.5	47.10	24010966-031A
G102	1/31/2024	14:23	15.3	59.5	6.27	245.3	7.64	10.17	157.9	59.63	24010966-032A
G105	1/31/2024	13:55	15.9	60.6	6.05	322.1	7.88	8.88	165.3	56.19	24010966-033A
G107	2/1/2024	9:15	14.8	58.6	6.35	661.0	3.12	29.04	164.7	55.20	24010966-034A
G109	1/31/2024	13:25	16.3	61.3	6.35	221.7	5.83	11.50	149.8	52.78	24010966-035A
G111_LF	1/31/2024	12:59	16.3	61.3	6.62	296.4	4.86	7.61	140.0	50.41	24010966-036A
XPW01_pore	1/30/2024	12:14	16.1	61.0	8.44	799.6	0.43	4.79	-30.8	2.16	24010966-037A
XPW02_pore	1/29/2024	14:51	15.3	59.5	7.72	4,118.2	0.48	13.32	-54.7	2.13	24010966-038A
XPW03_pore	1/30/2024	13:02	16.3	61.3	10.85	583.9	1.87	2.37	2.0	12.97	24010966-039A
XSG01	1/29/2024	14:51	DTW Only							N/A	24010966-040A
YSG03	1/29/2024	11:52	DTW Only							40.53	24010966-041A
Field Blank	2/1/2024	11:42	QA/QC Sample								24010966-042A



Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Stabilized Field Parameters Summary****Joppa- 1Q 2024**

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
G052D Duplicate	1/31/2024	9:08	11.8	53.2	6.30	368.0	1.51	2.51	-55.6	29.74	24010966-043A
G012S Duplicate	2/1/2024	11:17	14.0	57.2	6.51	547.1	3.78	21.10	147.5	46.90	24010966-044A
Equipment Blank 1	2/1/2024	12:00	QA/QC Sample								24010966-045A

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Forms- Groundwater Quality Parameters

Joppa- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G001D	1/29/2024	13:03	44.51	14.8	58.6	6.49	437.8	1.12	19.60	149.8
G001D	1/29/2024	13:06	44.51	14.9	58.8	6.47	436.9	0.90	12.54	148.7
G001D	1/29/2024	13:09	44.51	15.0	59.0	6.46	437.0	1.05	10.13	147.9
G001D	1/29/2024	13:12	44.51	15.0	59.0	6.45	440.3	1.10	17.11	147.4

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G002D	1/29/2024	13:50	44.33	13.8	56.8	6.50	337.9	2.70	5.11	150.4
G002D	1/29/2024	13:53	44.33	13.8	56.8	6.44	337.7	2.48	4.12	151.0
G002D	1/29/2024	13:56	44.33	13.8	56.8	6.43	337.5	2.40	3.32	151.1
G002D	1/29/2024	13:59	44.33	13.8	56.8	6.42	336.6	2.34	2.95	151.0

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Forms- Groundwater Quality Parameters

Joppa- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G003	1/30/2024	9:35	37.95	13.6	56.5	6.25	427.6	3.72	553.35	150.8
G003	1/30/2024	9:38	37.95	13.5	56.3	6.26	421.5	3.72	542.10	151.6
G003	1/30/2024	9:41	37.95	13.8	56.8	6.26	418.0	3.73	513.93	152.4
G003	1/30/2024	9:44	37.95	13.6	56.5	6.26	415.9	3.74	479.52	153.3
G003	1/30/2024	9:47	37.95	13.7	56.7	6.27	412.7	3.75	476.16	154.1
G003	1/30/2024	9:50	37.95	13.8	56.8	6.26	409.5	3.80	488.46	155.5
G003	1/30/2024	9:53	37.95	13.9	57.0	6.28	408.6	4.32	397.67	156.0
G003	1/30/2024	9:56	37.95	14.0	57.2	6.28	405.4	4.10	409.94	156.6
G003	1/30/2024	9:59	37.95	14.0	57.2	6.28	403.4	3.98	372.11	157.4
G003	1/30/2024	10:02	37.95	14.1	57.4	6.28	401.1	3.92	360.21	158.1
G003	1/30/2024	10:05	37.95	14.2	57.6	6.28	399.2	3.90	339.46	158.7

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G005	1/31/2024	12:00	43.95	15.3	59.5	6.43	538.3	2.43	19.06	91.3
G005	1/31/2024	12:03	43.95	15.3	59.5	6.42	540.6	2.01	13.10	90.6
G005	1/31/2024	12:06	43.95	15.4	59.7	6.41	539.2	1.66	10.52	90.0
G005	1/31/2024	12:09	43.95	15.3	59.5	6.41	540.5	1.44	10.45	89.6
G005	1/31/2024	12:12	43.95	15.4	59.7	6.41	538.5	1.29	10.20	89.5

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G006	1/30/2024	12:13	40.66	13.7	56.7	6.55	569.8	1.48	428.18	150.9
G006	1/30/2024	12:16	40.66	13.8	56.8	6.55	571.0	1.43	383.06	150.7
G006	1/30/2024	12:19	40.66	13.9	57.0	6.55	572.2	1.37	367.04	150.5
G006	1/30/2024	12:22	40.66	13.6	56.5	6.55	572.1	1.33	328.71	150.3
G006	1/30/2024	12:25	40.66	13.8	56.8	6.55	572.3	1.29	290.07	150.1
G006	1/30/2024	12:28	40.66	13.5	56.3	6.56	573.0	1.25	277.42	150.0

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G007	1/30/2024	10:50	40.70	14.1	57.4	6.29	689.2	1.32	539.11	158.0
G007	1/30/2024	10:53	40.70	14.1	57.4	6.30	695.4	1.26	478.94	157.7
G007	1/30/2024	10:56	40.70	14.0	57.2	6.31	699.7	1.21	460.47	157.5
G007	1/30/2024	10:59	40.70	14.1	57.4	6.31	702.9	1.16	419.79	157.3
G007	1/30/2024	11:02	40.70	14.1	57.4	6.32	704.2	1.12	381.64	157.2
G007	1/30/2024	11:05	40.70	14.2	57.6	6.32	707.4	1.08	354.10	157.0
G007	1/30/2024	11:08	40.70	14.2	57.6	6.32	707.8	1.05	340.37	156.8
G007	1/30/2024	11:11	40.70	14.2	57.6	6.33	708.4	1.02	312.93	156.6
G007	1/30/2024	11:14	40.70	14.3	57.7	6.33	709.5	1.00	291.49	156.5
G007	1/30/2024	11:17	40.70	14.3	57.7	6.33	710.3	0.97	276.07	156.3

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G008	1/30/2024	13:45	30.82	14.6	58.3	6.93	731.2	0.86	309.42	140.3
G008	1/30/2024	13:48	30.82	14.7	58.5	6.93	731.7	0.84	281.90	139.8
G008	1/30/2024	13:51	30.82	14.6	58.3	6.93	732.9	0.83	252.11	139.3
G008	1/30/2024	13:54	30.82	14.6	58.3	6.93	732.3	0.82	227.21	138.8
G008	1/30/2024	13:57	30.82	14.6	58.3	6.93	734.3	0.80	208.53	138.4
G008	1/30/2024	14:00	30.82	14.6	58.3	6.93	734.3	0.79	188.16	137.9
G008	1/30/2024	14:03	30.82	14.6	58.3	6.94	734.8	0.78	173.96	137.4
G008	1/30/2024	14:06	30.82	14.6	58.3	6.94	735.4	0.77	162.19	137.0

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G009	2/1/2024	10:08	37.64	15.6	60.1	6.06	586.4	2.75	620.31	162.0
G009	2/1/2024	10:11	37.64	15.6	60.1	6.05	587.4	2.70	580.81	162.0
G009	2/1/2024	10:14	37.64	15.7	60.3	6.05	588.8	2.65	535.08	161.9
G009	2/1/2024	10:17	37.64	15.7	60.3	6.04	589.8	2.60	497.09	162.0
G009	2/1/2024	10:20	37.64	15.7	60.3	6.04	590.4	2.61	468.75	162.0
G009	2/1/2024	10:23	37.64	15.8	60.4	6.04	590.7	2.55	447.61	161.8
G009	2/1/2024	10:26	37.64	15.8	60.4	6.04	591.9	2.50	409.81	161.7
G009	2/1/2024	10:29	37.64	15.8	60.4	6.03	592.2	2.47	400.03	161.7
G009	2/1/2024	10:32	37.64	15.9	60.6	6.04	593.1	2.48	365.35	161.4
G009	2/1/2024	10:35	37.64	16.0	60.8	6.03	593.9	2.48	346.90	161.4

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G010	1/30/2024	14:43	38.75	14.2	57.6	6.39	820.3	3.07	532.82	158.2
G010	1/30/2024	14:46	38.75	14.2	57.6	6.38	819.9	2.90	475.19	158.2
G010	1/30/2024	14:49	38.75	14.3	57.7	6.38	819.6	2.75	427.82	158.2
G010	1/30/2024	14:52	38.75	14.2	57.6	6.38	819.4	2.63	420.74	158.2
G010	1/30/2024	14:55	38.75	14.5	58.1	6.37	819.2	2.51	393.93	158.1
G010	1/30/2024	14:58	38.75	14.5	58.1	6.37	819.7	2.42	358.17	158.1
G010	1/30/2024	15:01	38.75	14.3	57.7	6.37	818.7	2.35	347.52	158.0
G010	1/30/2024	15:04	38.75	14.2	57.6	6.37	816.6	2.28	315.18	158.0
G010	1/30/2024	15:07	38.75	14.1	57.4	6.37	815.7	2.23	311.35	158.0

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G011	1/30/2024	13:38	47.38	15.5	59.9	6.33	782.5	3.66	15.94	105.6
G011	1/30/2024	13:41	47.38	15.5	59.9	6.15	792.1	2.92	18.28	112.8
G011	1/30/2024	13:44	47.38	15.5	59.9	6.07	778.2	2.56	127.07	117.3
G011	1/30/2024	13:47	47.38	15.4	59.7	6.03	710.6	2.20	406.01	119.5
G011	1/30/2024	13:50	47.38	15.6	60.1	6.01	658.4	1.92	464.15	121.1
G011	1/30/2024	13:53	47.38	15.6	60.1	6.00	630.0	1.73	486.93	122.4
G011	1/30/2024	13:56	47.38	15.6	60.1	5.99	613.9	1.62	425.57	123.5
G011	1/30/2024	13:59	47.38	15.6	60.1	5.98	598.6	1.55	377.33	124.5
G011	1/30/2024	14:02	47.38	15.5	59.9	5.98	584.3	1.49	298.40	125.3
G011	1/30/2024	14:05	47.38	15.6	60.1	5.97	564.5	1.45	213.49	126.1
G011	1/30/2024	14:08	47.38	15.6	60.1	5.97	558.4	1.38	177.11	126.8

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G012S	2/1/2024	11:11	46.90	13.6	56.5	6.66	546.2	6.35	21.14	144.1
G012S	2/1/2024	11:14	46.90	13.9	57.0	6.55	546.7	4.78	20.98	146.8
G012S	2/1/2024	11:17	46.90	14.0	57.2	6.51	547.1	3.78	21.10	147.5

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G012D	2/1/2024	11:52	46.91	13.9	57.0	6.74	548.0	6.94	13.12	144.3
G012D	2/1/2024	11:55	46.91	14.2	57.6	6.67	549.8	5.07	16.73	144.8
G012D	2/1/2024	11:58	46.91	14.2	57.6	6.63	549.6	4.03	18.50	145.1
G012D	2/1/2024	12:01	46.91	14.3	57.7	6.61	548.8	3.25	20.58	145.4
G012D	2/1/2024	12:04	46.91	14.2	57.6	6.59	548.6	2.71	22.41	145.5

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G013S	1/31/2024	13:29	40.00	14.3	57.7	6.56	550.1	1.36	7.32	128.7
G013S	1/31/2024	13:32	40.00	14.3	57.7	6.55	550.9	1.15	8.56	128.5
G013S	1/31/2024	13:35	40.00	14.3	57.7	6.54	550.0	1.03	9.87	128.1
G013S	1/31/2024	13:38	40.00	14.2	57.6	6.53	549.3	0.95	11.70	127.5

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G013D	1/31/2024	14:29	41.92	14.3	57.7	6.58	548.2	2.49	3.74	138.4
G013D	1/31/2024	14:32	41.92	14.5	58.1	6.58	547.8	2.42	1.92	138.1
G013D	1/31/2024	14:35	41.92	14.4	57.9	6.57	548.7	2.21	2.08	137.8
G013D	1/31/2024	14:38	41.92	14.3	57.7	6.57	547.4	2.16	1.21	137.4
G013D	1/31/2024	14:41	41.92	14.5	58.1	6.57	547.1	2.23	1.61	137.1

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G016S	2/1/2024	12:28	40.19	14.4	57.9	6.67	746.7	5.55	19.22	144.9
G016S	2/1/2024	12:31	40.19	14.3	57.7	6.65	750.6	4.35	17.30	146.1
G016S	2/1/2024	12:34	40.19	14.3	57.7	6.64	752.3	3.29	9.85	146.2
G016S	2/1/2024	12:37	40.19	14.3	57.7	6.64	752.4	2.76	9.29	146.2

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G018S	1/31/2024	11:45	38.29	15.2	59.4	6.77	392.3	4.90	32.37	148.9
G018S	1/31/2024	11:48	38.29	15.2	59.4	6.61	392.4	4.17	14.74	151.0
G018S	1/31/2024	11:51	38.29	15.2	59.4	6.55	391.5	3.84	8.27	151.6

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G019S	1/31/2024	9:55	44.40	14.8	58.6	6.67	502.4	6.29	5.06	148.0
G019S	1/31/2024	9:58	44.40	14.7	58.5	6.51	502.4	5.35	5.79	151.5
G019S	1/31/2024	10:01	44.40	14.8	58.6	6.43	501.9	4.78	5.28	153.1

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G019D	1/31/2024	10:24	44.26	15.0	59.0	6.71	402.9	6.94	5.87	148.4
G019D	1/31/2024	10:27	44.26	15.0	59.0	6.60	401.8	5.45	6.53	150.4
G019D	1/31/2024	10:30	44.26	15.0	59.0	6.56	401.7	4.65	6.70	151.1

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G020S	1/30/2024	9:33	40.65	13.9	57.0	6.61	473.3	6.38	3.94	146.5
G020S	1/30/2024	9:36	40.65	13.9	57.0	6.54	470.6	4.62	3.98	149.5
G020S	1/30/2024	9:39	40.65	13.9	57.0	6.52	470.4	3.91	3.37	150.5

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G020D	1/30/2024	9:54	41.16	12.4	54.3	6.80	480.1	5.99	4.51	149.4
G020D	1/30/2024	9:57	41.16	12.8	55.0	6.73	486.5	3.89	4.33	150.0
G020D	1/30/2024	10:00	41.16	12.9	55.2	6.71	489.7	3.02	3.46	149.7

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G021S	1/30/2024	9:03	41.98	12.5	54.5	6.77	721.9	6.82	3.90	159.7
G021S	1/30/2024	9:06	41.98	12.9	55.2	6.55	745.7	4.39	3.71	162.0
G021S	1/30/2024	9:09	41.98	13.0	55.4	6.48	750.7	3.24	4.00	162.1

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G021D	1/30/2024	8:35	41.32	12.3	54.1	6.08	614.5	6.84	4.42	159.1
G021D	1/30/2024	8:38	41.32	12.8	55.0	6.22	614.1	3.90	19.58	160.4
G021D	1/30/2024	8:41	41.32	12.8	55.0	6.32	616.2	2.80	20.44	160.2
G021D	1/30/2024	8:44	41.32	12.9	55.2	6.41	616.1	2.23	21.74	158.0

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G022S	1/31/2024	8:24	41.36	14.1	57.4	6.05	418.1	6.60	8.64	137.1
G022S	1/31/2024	8:27	41.36	14.5	58.1	6.14	408.9	5.07	12.46	142.7
G022S	1/31/2024	8:30	41.36	14.6	58.3	6.18	408.7	4.34	13.62	146.9

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G022D	1/31/2024	8:45	45.82	14.4	57.9	6.65	375.3	4.97	4.71	146.6
G022D	1/31/2024	8:48	45.82	14.5	58.1	6.53	338.0	2.97	5.72	149.7
G022D	1/31/2024	8:51	45.82	14.5	58.1	6.43	302.0	2.22	6.16	152.3

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G023S	1/31/2024	11:04	45.32	14.6	58.3	6.70	332.0	5.46	20.93	145.9
G023S	1/31/2024	11:07	45.32	14.5	58.1	6.58	334.5	4.98	21.00	148.6
G023S	1/31/2024	11:10	45.32	14.5	58.1	6.54	334.9	4.72	16.42	149.9

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Forms- Groundwater Quality Parameters

Joppa- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G024S	1/31/2024	9:18	45.04	14.8	58.6	6.96	273.4	5.92	23.85	135.9
G024S	1/31/2024	9:21	45.04	15.0	59.0	6.97	231.1	4.35	21.71	137.2
G024S	1/31/2024	9:24	45.04	14.9	58.8	6.98	216.2	3.41	17.33	137.5
G024S	1/31/2024	9:27	45.04	14.9	58.8	6.98	211.3	2.83	13.81	137.6

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G051D	1/30/2024	10:57	44.36	15.3	59.5	5.52	342.5	3.79	34.73	187.6
G051D	1/30/2024	11:00	44.36	15.4	59.7	5.52	341.2	3.70	74.33	187.8
G051D	1/30/2024	11:03	44.36	15.5	59.9	5.51	341.2	3.66	98.36	188.0
G051D	1/30/2024	11:06	44.36	15.6	60.1	5.50	342.1	3.59	76.60	187.9
G051D	1/30/2024	11:09	44.36	15.5	59.9	5.50	341.9	3.59	67.67	188.0
G051D	1/30/2024	11:12	44.36	15.6	60.1	5.49	341.2	3.54	54.34	188.2

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G052D	1/31/2024	8:56	29.74	12.0	53.6	6.26	371.3	2.14	3.38	-36.4
G052D	1/31/2024	8:59	29.74	11.7	53.1	6.27	369.4	1.89	3.02	-42.7
G052D	1/31/2024	9:02	29.74	11.9	53.4	6.28	368.9	1.72	3.22	-47.8
G052D	1/31/2024	9:05	29.74	11.9	53.4	6.29	368.5	1.64	2.62	-52.0
G052D	1/31/2024	9:08	29.74	11.8	53.2	6.30	368.0	1.51	2.51	-55.6

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G053D	1/30/2024	12:46	38.46	14.8	58.6	6.83	389.7	6.13	22.93	143.4
G053D	1/30/2024	12:49	38.46	14.9	58.8	6.57	395.1	2.68	10.59	148.9
G053D	1/30/2024	12:52	38.46	15.0	59.0	6.49	395.8	1.78	7.12	150.2

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G054D	1/31/2024	10:56	39.58	14.5	58.1	6.47	687.7	0.70	21.41	22.0
G054D	1/31/2024	10:59	39.58	14.7	58.5	6.47	688.7	0.75	15.29	20.9
G054D	1/31/2024	11:02	39.58	14.6	58.3	6.47	689.1	0.72	12.73	20.1
G054D	1/31/2024	11:05	39.58	14.5	58.1	6.47	685.7	0.70	9.78	19.3
G054D	1/31/2024	11:08	39.58	14.7	58.5	6.48	687.8	0.73	7.22	18.3
G054D	1/31/2024	11:11	39.58	14.7	58.5	6.48	687.5	0.73	6.88	17.5

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G101_LF	1/31/2024	14:47	47.10	14.7	58.5	6.49	260.1	6.73	145.74	153.2
G101_LF	1/31/2024	14:50	47.10	14.7	58.5	6.48	259.3	6.70	123.15	153.5
G101_LF	1/31/2024	14:53	47.10	14.8	58.6	6.48	259.2	6.67	95.87	153.5
G101_LF	1/31/2024	14:56	47.10	14.7	58.5	6.47	259.5	6.72	79.36	154.0
G101_LF	1/31/2024	14:59	47.10	14.7	58.5	6.47	258.8	6.73	73.11	154.1
G101_LF	1/31/2024	15:02	47.10	14.6	58.3	6.48	258.9	6.74	65.14	153.9
G101_LF	1/31/2024	15:05	47.10	14.5	58.1	6.47	258.9	6.77	62.41	154.5
G101_LF	1/31/2024	15:08	47.10	14.6	58.3	6.47	259.1	6.79	58.32	154.4
G101_LF	1/31/2024	15:11	47.10	14.6	58.3	6.47	258.8	6.77	55.18	154.5

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G102	1/31/2024	14:17	59.63	15.6	60.1	6.30	245.6	7.85	14.40	156.6
G102	1/31/2024	14:20	59.63	15.4	59.7	6.29	245.2	7.69	13.05	157.2
G102	1/31/2024	14:23	59.63	15.3	59.5	6.27	245.3	7.64	10.17	157.9

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Forms- Groundwater Quality Parameters

Joppa- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G105	1/31/2024	13:46	56.19	16.1	61.0	6.10	335.9	7.88	14.24	163.3
G105	1/31/2024	13:49	56.19	16.0	60.8	6.07	326.4	7.89	12.18	164.1
G105	1/31/2024	13:52	56.19	16.1	61.0	6.06	322.8	7.89	6.04	164.8
G105	1/31/2024	13:55	56.19	15.9	60.6	6.05	322.1	7.88	8.88	165.3

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G107	2/1/2024	9:00	55.20	14.4	57.9	6.34	661.5	3.12	86.34	165.9
G107	2/1/2024	9:03	55.20	14.6	58.3	6.34	662.0	3.11	61.29	165.6
G107	2/1/2024	9:06	55.20	13.9	57.0	6.35	662.3	3.13	47.29	165.3
G107	2/1/2024	9:09	55.20	13.6	56.5	6.36	660.9	3.14	39.25	165.1
G107	2/1/2024	9:12	55.20	14.4	57.9	6.35	660.1	3.13	37.73	165.0
G107	2/1/2024	9:15	55.20	14.8	58.6	6.35	661.0	3.12	29.04	164.7

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G109	1/31/2024	13:10	52.78	16.6	61.9	6.67	235.6	7.83	9.56	141.5
G109	1/31/2024	13:13	52.78	15.7	60.3	6.54	232.8	6.97	37.10	144.4
G109	1/31/2024	13:16	52.78	16.2	61.2	6.44	225.7	6.29	30.01	146.7
G109	1/31/2024	13:19	52.78	16.3	61.3	6.40	223.5	6.02	20.09	148.1
G109	1/31/2024	13:22	52.78	16.2	61.2	6.38	222.5	5.90	15.27	148.8
G109	1/31/2024	13:25	52.78	16.3	61.3	6.35	221.7	5.83	11.50	149.8

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G111_LF	1/31/2024	12:53	50.41	16.3	61.3	6.94	297.6	6.29	11.67	139.8
G111_LF	1/31/2024	12:56	50.41	16.3	61.3	6.71	296.9	5.20	9.43	139.8
G111_LF	1/31/2024	12:59	50.41	16.3	61.3	6.62	296.4	4.86	7.61	140.0

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Forms- Groundwater Quality Parameters

Joppa- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW01_pore	1/30/2024	12:05	2.16	16.0	60.8	8.38	788.5	0.67	9.78	2.1
XPW01_pore	1/30/2024	12:08	2.16	16.0	60.8	8.42	790.4	0.54	7.47	-10.4
XPW01_pore	1/30/2024	12:11	2.16	15.9	60.6	8.45	791.2	0.49	5.98	-22.3
XPW01_pore	1/30/2024	12:14	2.16	16.1	61.0	8.44	799.6	0.43	4.79	-30.8

Site Sampling Event: Joppa 1Q24

LIMS Workorder: 24010966

Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Forms- Groundwater Quality Parameters

Joppa- 1Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW02_pore	1/29/2024	14:42	2.13	15.0	59.0	7.66	4,087.7	0.63	21.41	54.6
XPW02_pore	1/29/2024	14:45	2.13	15.1	59.2	7.69	4,107.2	0.56	18.16	11.6
XPW02_pore	1/29/2024	14:48	2.13	15.2	59.4	7.71	4,114.1	0.51	15.52	-26.0
XPW02_pore	1/29/2024	14:51	2.13	15.3	59.5	7.72	4,118.2	0.48	13.32	-54.7

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW03_pore	1/30/2024	12:44	12.97	15.9	60.6	10.88	578.7	2.41	9.70	3.8
XPW03_pore	1/30/2024	12:47	12.97	16.1	61.0	10.87	580.0	2.12	6.65	3.3
XPW03_pore	1/30/2024	12:50	12.97	16.2	61.2	10.86	581.0	2.30	4.24	2.8
XPW03_pore	1/30/2024	12:53	12.97	16.2	61.2	10.86	582.7	2.24	2.91	2.6
XPW03_pore	1/30/2024	12:56	12.97	16.1	61.0	10.86	582.6	2.25	2.54	2.6
XPW03_pore	1/30/2024	12:59	12.97	16.2	61.2	10.85	583.5	1.97	2.34	2.1
XPW03_pore	1/30/2024	13:02	12.97	16.3	61.3	10.85	583.9	1.87	2.37	2.0

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XSG01	1/29/2024	14:51	N/A	DTW Only						

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
YSG03	1/29/2024	12:00	40.53	DTW Only						

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
Field Blank	2/1/2024	11:42	QA/QC Sample							

Site Sampling Event: Joppa 1Q24

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24010966

Joppa- 1Q 2024

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G052D Duplicate	1/31/2024	8:56	29.74	12.0	53.6	6.26	371.3	2.14	3.38	-36.4
G052D Duplicate	1/31/2024	8:59	29.74	11.7	53.1	6.27	369.4	1.89	3.02	-42.7
G052D Duplicate	1/31/2024	9:02	29.74	11.9	53.4	6.28	368.9	1.72	3.22	-47.8
G052D Duplicate	1/31/2024	9:05	29.74	11.9	53.4	6.29	368.5	1.64	2.62	-52.0
G052D Duplicate	1/31/2024	9:08	29.74	11.8	53.2	6.30	368.0	1.51	2.51	-55.6

Site Sampling Event: Joppa 1Q24**LIMS Workorder:** 24010966**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Field Forms- Groundwater Quality Parameters****Joppa- 1Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G012S Duplicate	2/1/2024	11:11	46.90	13.6	56.5	6.66	546.2	6.35	21.14	144.1
G012S Duplicate	2/1/2024	11:14	46.90	13.9	57.0	6.55	546.7	4.78	20.98	146.8
G012S Duplicate	2/1/2024	11:17	46.90	14.0	57.2	6.51	547.1	3.78	21.10	147.5

Site Sampling Event: Joppa 1Q24**Groundwater Sampling Field Forms- Groundwater Quality Parameters****LIMS Workorder:** 24010966**Joppa- 1Q 2024****Technician(s):** DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
Equipment Blank 1	2/1/2024	12:00	QA/QC Sample							

Site Sampling Event: Joppa 1Q24
LIMS Workorder: 24010966
Technician(s): DC, JC, TC, BG

Field Calibration Log(s)
Joppa- 1Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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 45720 Technician(s): justin colp Date: 1/30/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.00	1/30/24 8:06
7.0 Buffer	wc230616f	7.02	1/30/24 8:02
10.0 Buffer	wc231027d	10.02	1/30/24 8:11
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1415	1/30/24 8:19

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	2.1	1/30/24 8:24
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %	Comments
LCS	1/30/24 8:28	16.4	7.02	1,418	2.3			
CCV (Midday)	1/30/24 12:56	17	7.03	1,427	2.7			
ccv	1/30/24 15:10	17.1	7.03	1,435	2.8			

Field Meter ID: Pine 45720 Technician(s): justin colp Date: 1/31/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.01	1/31/24 7:49
7.0 Buffer	wc230616f	7.00	1/31/24 7:46
10.0 Buffer	wc231027d	10.01	1/31/24 7:56
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1413	1/31/24 8:01

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.89	1/31/24 8:05
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %	Comments
LCS	1/31/24 8:09	14.6	7.01	1,422	1.98			
CCV (Midday)	1/31/24 12:20	15.3	7.02	1,431	2.01			
ccv	1/31/24 15:16	15.9	7.02	1,446	2.09			

Site Sampling Event: Joppa 1Q24
LIMS Workorder: 24010966
Technician(s): DC, JC, TC, BG

Field Calibration Log(s)
Joppa- 1Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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 45720 Technician(s): justin colp Date: 2/1/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.01	2/1/24 7:55
7.0 Buffer	wc230616f	7.01	2/1/24 7:52
10.0 Buffer	wc231027d	9.99	2/1/24 7:59
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1414	2/1/24 8:03

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.99	2/1/24 8:07
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %	Comments
LCS	2/1/24 8:12	13.8	7.02	1,421	2			
CCV (Midday)								
CCV	2/1/24 12:40	16.6	7.03	1,448	2.03			

Field Meter ID: Technician(s): Date:

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.			

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %	Comments
LCS								
CCV (Midday)								
CCV								

Site Sampling Event: Joppa 1Q24
LIMS Workorder: 24010966
Technician(s): DC, JC, TC, BG

Field Calibration Log(s)
Joppa- 1Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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 45600 Technician(s): Tracy Carroll/Danny Crump Date: 1/29/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	1/29/24 12:23
7.0 Buffer	WC230616F	7.00	1/29/24 12:25
10.0 Buffer	WC231027D	10.00	1/29/24 12:31
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	1/29/24 12:35

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	1/29/24 12:39
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %	Comments
LCS	1/29/24 12:40	17.4	7.08	1,414	0.21			
CCV (Midday)								
ccv	1/29/24 15:42	16.5	7.09	1,419	0.41			

Field Meter ID: Pine 45600 Technician(s): Tracy Carroll/Danny Crump Date: 1/30/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	1/30/24 8:16
7.0 Buffer	WC230616F	7.00	1/30/24 8:20
10.0 Buffer	WC231027D	10.00	1/30/24 8:26
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	1/30/24 8:30

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %	Comments
LCS	1/30/24 8:37	6.1	7.10	1,410	0.3			
CCV (Midday)	1/30/24 11:36	10.5	7.08	1,411	0.1			
ccv	1/30/24 14:59	14	7.09	1,344	0.1			

Site Sampling Event: Joppa 1Q24
LIMS Workorder: 24010966
Technician(s): DC, JC, TC, BG

Field Calibration Log(s)
Joppa- 1Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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 45600 Technician(s): Tracy Carroll/Danny Crump Date: 1/31/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	1/31/24 7:53
7.0 Buffer	WC230616F	7.00	1/31/24 7:55
10.0 Buffer	WC231027D	10.00	1/31/24 8:07
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	95009	1412	1/31/24 8:11
Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0	1/31/24 8:22
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %	Comments
LCS	1/31/24 8:22	6.3	7.09	1,412	0.03			
CCV (Midday)	1/31/24 12:03	12.6	7.09	1,398	0.2			
CCV	1/31/24 15:46	16.8	7.09	1,326	0.1			

Field Meter ID: Technician(s): Date:

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.			
Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %	Comments
LCS								
CCV (Midday)								
CCV								

**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 1, 2024**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G03	UA	E004	Antimony, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.001	0.001
G03	UA	E004	Arsenic, total	mg/L	03/05/21 - 01/30/24	14	43	CI around geomean	0.00114	0.00170
G03	UA	E004	Barium, total	mg/L	03/05/21 - 01/30/24	14	0	CI around mean	0.0607	0.254
G03	UA	E004	Beryllium, total	mg/L	03/05/21 - 01/30/24	14	93	CI around median	0.001	0.00110
G03	UA	E004	Boron, total	mg/L	03/05/21 - 01/30/24	14	0	CI around geomean	0.238	0.0531
G03	UA	E004	Cadmium, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.001	0.00100
G03	UA	E004	Chloride, total	mg/L	03/05/21 - 01/30/24	14	0	CI around mean	20.5	32.0
G03	UA	E004	Chromium, total	mg/L	03/05/21 - 01/30/24	14	7	CI around mean	0.00352	0.00390
G03	UA	E004	Cobalt, total	mg/L	03/05/21 - 01/30/24	14	29	CI around geomean	0.00145	0.00150
G03	UA	E004	Fluoride, total	mg/L	03/05/21 - 01/30/24	14	0	CI around mean	0.191	0.250
G03	UA	E004	Lead, total	mg/L	03/05/21 - 01/30/24	14	36	CI around geomean	0.00118	0.00150
G03	UA	E004	Lithium, total	mg/L	03/05/21 - 01/30/24	14	71	CI around median	0.003	0.003
G03	UA	E004	Mercury, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.0002	0.0002
G03	UA	E004	Molybdenum, total	mg/L	03/05/21 - 01/30/24	14	86	CI around median	0.0015	0.00150
G03	UA	E004	pH (field)	SU	03/05/21 - 01/30/24	14	0	CI around mean	6.3/6.4	6.0/6.8
G03	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 01/30/24	14	0	CI around mean	0.368	1.70
G03	UA	E004	Selenium, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.001	0.00420
G03	UA	E004	Sulfate, total	mg/L	03/05/21 - 01/30/24	14	0	CI around geomean	69.9	39.0
G03	UA	E004	Thallium, total	mg/L	03/05/21 - 01/30/24	14	100	All ND - Last	0.002	0.00200
G03	UA	E004	Total Dissolved Solids	mg/L	03/05/21 - 01/30/24	14	0	CI around geomean	282	334
G05	UA	E004	Antimony, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.001	0.001
G05	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/31/24	14	86	CI around median	0.001	0.00170
G05	UA	E004	Barium, total	mg/L	03/04/21 - 01/31/24	14	0	CB around T-S line	0.156	0.254
G05	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.001	0.00110
G05	UA	E004	Boron, total	mg/L	03/04/21 - 01/31/24	14	0	CB around linear reg	-0.00879	0.0531
G05	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.001	0.00100
G05	UA	E004	Chloride, total	mg/L	03/04/21 - 01/31/24	14	0	CI around mean	17.2	32.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G05	UA	E004	Chromium, total	mg/L	03/04/21 - 01/31/24	14	71	CI around median	0.0015	0.00390
G05	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/31/24	14	0	CB around linear reg	0.000397	0.00150
G05	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/31/24	14	0	CB around linear reg	0.348	0.250
G05	UA	E004	Lead, total	mg/L	03/04/21 - 01/31/24	14	93	CI around median	0.001	0.00150
G05	UA	E004	Lithium, total	mg/L	03/04/21 - 01/31/24	14	71	CI around median	0.003	0.003
G05	UA	E004	Mercury, total	mg/L	03/04/21 - 01/31/24	14	100	All ND - Last	0.0002	0.0002
G05	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/31/24	14	7	CI around mean	0.00391	0.00150
G05	UA	E004	pH (field)	SU	03/04/21 - 01/31/24	14	0	CI around mean	6.4/6.5	6.0/6.8
G05	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/31/24	14	0	CI around geomean	0.413	1.70
G05	UA	E004	Selenium, total	mg/L	03/04/21 - 01/31/24	14	29	CB around linear reg	0.000114	0.00420
G05	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/31/24	14	0	CI around mean	84.1	39.0
G05	UA	E004	Thallium, total	mg/L	03/04/21 - 01/31/24	14	93	CI around median	0.002	0.00200
G05	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/31/24	14	0	CI around mean	353	334
G06	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.001
G06	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.001	0.00170
G06	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	0.0257	0.254
G06	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.00110
G06	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	3.01	0.0531
G06	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00100
G06	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	21	32.0
G06	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	29	CI around geomean	0.00161	0.00390
G06	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.001	0.00150
G06	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.252	0.250
G06	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.001	0.00150
G06	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	21	CI around median	0.0035	0.003
G06	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.0002
G06	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.0015	0.00150

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G06	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	13	0	CI around mean	6.5/6.6	6.0/6.8
G06	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CB around linear reg	1.19	1.70
G06	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00420
G06	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	177	39.0
G06	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.00200
G06	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	407	334
G07	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.001
G07	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	71	CI around median	0.001	0.00170
G07	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around geomean	0.0443	0.254
G07	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.001	0.00110
G07	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	4.29	0.0531
G07	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00100
G07	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	20.4	32.0
G07	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	36	CI around geomean	0.00213	0.00390
G07	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	7	CI around mean	0.00147	0.00150
G07	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	0.38	0.250
G07	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	71	CI around median	0.001	0.00150
G07	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.003	0.003
G07	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.0002
G07	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.0015	0.00150
G07	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around mean	6.2/6.5	6.0/6.8
G07	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CB around linear reg	1.15	1.70
G07	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00420
G07	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	253	39.0
G07	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.00200
G07	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	578	334
G08	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.001

ATTACHMENT C.
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EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G08	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	7	CI around mean	0.00621	0.00170
G08	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.0525	0.254
G08	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.00110
G08	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	4.22	0.0531
G08	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.00100
G08	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	14.2	32.0
G08	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	14	CI around geomean	0.00171	0.00390
G08	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	7	CI around mean	0.00349	0.00150
G08	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	0.215	0.250
G08	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	71	CI around median	0.001	0.00150
G08	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.003	0.003
G08	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.0002
G08	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	14	CI around geomean	0.00193	0.00150
G08	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around median	6.8/7.0	6.0/6.8
G08	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CB around linear reg	0.795	1.70
G08	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00420
G08	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	300	39.0
G08	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.00200
G08	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	562	334
G09	UA	E004	Antimony, total	mg/L	03/04/21 - 02/01/24	14	93	CI around median	0.001	0.001
G09	UA	E004	Arsenic, total	mg/L	03/04/21 - 02/01/24	14	14	CI around geomean	0.00197	0.00170
G09	UA	E004	Barium, total	mg/L	03/04/21 - 02/01/24	14	0	CI around mean	0.037	0.254
G09	UA	E004	Beryllium, total	mg/L	03/04/21 - 02/01/24	14	71	CI around median	0.001	0.00110
G09	UA	E004	Boron, total	mg/L	03/04/21 - 02/01/24	14	0	CI around median	3.15	0.0531
G09	UA	E004	Cadmium, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.001	0.00100
G09	UA	E004	Chloride, total	mg/L	03/04/21 - 02/01/24	14	0	CB around linear reg	13.7	32.0
G09	UA	E004	Chromium, total	mg/L	03/04/21 - 02/01/24	14	21	CI around geomean	0.00162	0.00390

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G09	UA	E004	Cobalt, total	mg/L	03/04/21 - 02/01/24	14	0	CB around linear reg	-0.000461	0.00150
G09	UA	E004	Fluoride, total	mg/L	03/04/21 - 02/01/24	14	0	CI around mean	0.278	0.250
G09	UA	E004	Lead, total	mg/L	03/04/21 - 02/01/24	14	64	CI around median	0.001	0.00150
G09	UA	E004	Lithium, total	mg/L	03/04/21 - 02/01/24	14	14	CI around median	0.0034	0.003
G09	UA	E004	Mercury, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.0002	0.0002
G09	UA	E004	Molybdenum, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.0015	0.00150
G09	UA	E004	pH (field)	SU	03/04/21 - 02/01/24	14	0	CI around median	6.0/6.4	6.0/6.8
G09	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 02/01/24	14	0	CI around mean	0.312	1.70
G09	UA	E004	Selenium, total	mg/L	03/04/21 - 02/01/24	14	93	CI around median	0.001	0.00420
G09	UA	E004	Sulfate, total	mg/L	03/04/21 - 02/01/24	14	0	CB around T-S line	148	39.0
G09	UA	E004	Thallium, total	mg/L	03/04/21 - 02/01/24	14	100	All ND - Last	0.002	0.00200
G09	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 02/01/24	14	0	CB around linear reg	443	334
G10	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.001
G10	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	29	CI around geomean	0.00116	0.00170
G10	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around geomean	0.0381	0.254
G10	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.001	0.00110
G10	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	1.39	0.0531
G10	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00100
G10	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	25	32.0
G10	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	29	CI around geomean	0.00169	0.00390
G10	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	-0.000645	0.00150
G10	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around median	0.28	0.250
G10	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.001	0.00150
G10	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	36	CI around median	0.003	0.003
G10	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.0002
G10	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	57	CI around median	0.0015	0.00150
G10	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around mean	6.5/6.7	6.0/6.8

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EAST ASH POND
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G10	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CI around mean	0.538	1.70
G10	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00420
G10	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	353	39.0
G10	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.002	0.00200
G10	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	750	334
G11	UA	E004	Antimony, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.001
G11	UA	E004	Arsenic, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.00170
G11	UA	E004	Barium, total	mg/L	03/04/21 - 01/30/24	14	0	CI around geomean	0.0142	0.254
G11	UA	E004	Beryllium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.001	0.00110
G11	UA	E004	Boron, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.281	0.0531
G11	UA	E004	Cadmium, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.001	0.00100
G11	UA	E004	Chloride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	31.3	32.0
G11	UA	E004	Chromium, total	mg/L	03/04/21 - 01/30/24	14	79	CI around median	0.0015	0.00390
G11	UA	E004	Cobalt, total	mg/L	03/04/21 - 01/30/24	14	36	CI around geomean	0.00101	0.00150
G11	UA	E004	Fluoride, total	mg/L	03/04/21 - 01/30/24	14	0	CI around mean	0.168	0.250
G11	UA	E004	Lead, total	mg/L	03/04/21 - 01/30/24	14	86	CI around median	0.001	0.00150
G11	UA	E004	Lithium, total	mg/L	03/04/21 - 01/30/24	14	14	CI around median	0.0035	0.003
G11	UA	E004	Mercury, total	mg/L	03/04/21 - 01/30/24	14	100	All ND - Last	0.0002	0.0002
G11	UA	E004	Molybdenum, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.0015	0.00150
G11	UA	E004	pH (field)	SU	03/04/21 - 01/30/24	14	0	CI around median	5.8/6.0	6.0/6.8
G11	UA	E004	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 01/30/24	14	0	CI around mean	0.303	1.70
G11	UA	E004	Selenium, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	-0.00254	0.00420
G11	UA	E004	Sulfate, total	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	0.131	39.0
G11	UA	E004	Thallium, total	mg/L	03/04/21 - 01/30/24	14	93	CI around median	0.002	0.00200
G11	UA	E004	Total Dissolved Solids	mg/L	03/04/21 - 01/30/24	14	0	CB around linear reg	197	334
G51D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.001
G51D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.00170

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G51D	UA	E004	Barium, total	mg/L	12/03/15 - 01/30/24	24	0	CB around T-S line	0.0151	0.254
G51D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.00110
G51D	UA	E004	Boron, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	0.532	0.0531
G51D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.00100
G51D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	2.54	32.0
G51D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/30/24	24	71	CB around T-S line	0.0015	0.00390
G51D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/30/24	24	17	CB around T-S line	-0.0118	0.00150
G51D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/30/24	25	84	CI around median	0.1	0.250
G51D	UA	E004	Lead, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.00150
G51D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/30/24	24	4	CB around T-S line	0.00545	0.003
G51D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.0002	0.0002
G51D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/30/24	20	95	CB around T-S line	0.00121	0.00150
G51D	UA	E004	pH (field)	SU	12/03/15 - 01/30/24	25	0	CB around T-S line	5.1/5.4	6.0/6.8
G51D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/30/24	24	0	CI around mean	0.503	1.70
G51D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/30/24	24	4	CB around T-S line	0.0045	0.00420
G51D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	99.9	39.0
G51D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.002	0.00200
G51D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/30/24	25	0	CB around linear reg	282	334
G52D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.001	0.001
G52D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/31/24	23	9	CB around linear reg	-0.000558	0.00170
G52D	UA	E004	Barium, total	mg/L	12/03/15 - 01/31/24	23	0	CB around T-S line	0.117	0.254
G52D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.001	0.00110
G52D	UA	E004	Boron, total	mg/L	12/03/15 - 01/31/24	24	92	CI around median	0.025	0.0531
G52D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.001	0.00100
G52D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	7.25	32.0
G52D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/31/24	23	100	All ND - Last	0.0015	0.00390
G52D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/31/24	23	0	CI around mean	0.00292	0.00150

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G52D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/31/24	24	0	CI around median	0.25	0.250
G52D	UA	E004	Lead, total	mg/L	12/03/15 - 01/31/24	23	100	All ND - Last	0.001	0.00150
G52D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/31/24	23	48	CI around median	0.0028	0.003
G52D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.0002	0.0002
G52D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/31/24	19	79	CI around median	0.0011	0.00150
G52D	UA	E004	pH (field)	SU	12/03/15 - 01/31/24	24	0	CI around mean	6.2/6.4	6.0/6.8
G52D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/31/24	23	0	CI around mean	0.882	1.70
G52D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/31/24	23	96	CI around median	0.001	0.00420
G52D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	49.2	39.0
G52D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/31/24	18	100	All ND - Last	0.002	0.00200
G52D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	275	334
G53D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.001
G53D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.00170
G53D	UA	E004	Barium, total	mg/L	12/03/15 - 01/30/24	24	0	CB around T-S line	-0.0258	0.254
G53D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.00110
G53D	UA	E004	Boron, total	mg/L	12/03/15 - 01/30/24	25	0	CI around median	0.334	0.0531
G53D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.001	0.00100
G53D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/30/24	25	0	CI around median	18	32.0
G53D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/30/24	24	83	CB around T-S line	0.0015	0.00390
G53D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/30/24	24	17	CI around median	0.0013	0.00150
G53D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/30/24	25	0	CI around mean	0.645	0.250
G53D	UA	E004	Lead, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.00150
G53D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/30/24	24	58	CB around T-S line	0.0028	0.003
G53D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.0002	0.0002
G53D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/30/24	20	90	CB around T-S line	0.00118	0.00150
G53D	UA	E004	pH (field)	SU	12/03/15 - 01/30/24	25	0	CB around T-S line	6.3/6.5	6.0/6.8
G53D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/30/24	24	0	CI around mean	0.381	1.70

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JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G53D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/30/24	24	100	All ND - Last	0.001	0.00420
G53D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	47.5	39.0
G53D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/30/24	19	100	All ND - Last	0.002	0.00200
G53D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/30/24	25	0	CB around T-S line	269	334
G54D	UA	E004	Antimony, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.001	0.001
G54D	UA	E004	Arsenic, total	mg/L	12/03/15 - 01/31/24	24	50	CB around T-S line	-0.000185	0.00170
G54D	UA	E004	Barium, total	mg/L	12/03/15 - 01/31/24	24	0	CB around T-S line	0.0607	0.254
G54D	UA	E004	Beryllium, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.001	0.00110
G54D	UA	E004	Boron, total	mg/L	12/03/15 - 01/31/24	25	0	CI around mean	0.471	0.0531
G54D	UA	E004	Cadmium, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.001	0.00100
G54D	UA	E004	Chloride, total	mg/L	12/03/15 - 01/31/24	25	4	CB around T-S line	15	32.0
G54D	UA	E004	Chromium, total	mg/L	12/03/15 - 01/31/24	24	67	CI around median	0.0015	0.00390
G54D	UA	E004	Cobalt, total	mg/L	12/03/15 - 01/31/24	24	0	CB around linear reg	0.00382	0.00150
G54D	UA	E004	Fluoride, total	mg/L	12/03/15 - 01/31/24	25	0	CB around linear reg	0.259	0.250
G54D	UA	E004	Lead, total	mg/L	12/03/15 - 01/31/24	24	96	CI around median	0.001	0.00150
G54D	UA	E004	Lithium, total	mg/L	12/03/15 - 01/31/24	24	17	CB around linear reg	0.00191	0.003
G54D	UA	E004	Mercury, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.0002	0.0002
G54D	UA	E004	Molybdenum, total	mg/L	12/03/15 - 01/31/24	20	95	CB around T-S line	0.00121	0.00150
G54D	UA	E004	pH (field)	SU	12/03/15 - 01/31/24	25	0	CI around mean	6.6/6.8	6.0/6.8
G54D	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 01/31/24	24	0	CI around geomean	0.517	1.70
G54D	UA	E004	Selenium, total	mg/L	12/03/15 - 01/31/24	24	100	All ND - Last	0.001	0.00420
G54D	UA	E004	Sulfate, total	mg/L	12/03/15 - 01/31/24	25	0	CB around linear reg	179	39.0
G54D	UA	E004	Thallium, total	mg/L	12/03/15 - 01/31/24	19	100	All ND - Last	0.002	0.00200
G54D	UA	E004	Total Dissolved Solids	mg/L	12/03/15 - 01/31/24	25	0	CI around mean	493	334

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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