UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

April 27, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0221, Piney Point - Phase 2

FROM: [redacted]
LSB Inorganic Chemistry Section Chief

THRU: [redacted]
Laboratory Services Branch

TO: [redacted]

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Classical/Nutrient Analyses (CNA)		
Ammonia as N	EPA 350.1 (Water)	ISO
Ammonia/TKN	EPA 351.2 (Water)	ISO
Classical/Nutrients	EPA 300.0 (Water)	ISO
Classical/Nutrients	EPA 300.0 (Water)	ISO/DW
Nitrate and/or Nitrite	EPA 353.2 (Water)	ISO/DW
Phosphorous	EPA 365.1 (Water)	ISO
Solids	USGS I-3765-85 (Water)	ISO
Physical Properties (PHYSP)		
Turbidity of Preserved Metals Samples	EPA 180.1 (Water)	NR
Total Metals (TMTL)		
Total Metals	EPA 200.7 (Water)	ISO
Total Metals	EPA 200.7 (Water)	ISO/DW
Total Metals	EPA 200.8 (Water)	ISO/DW

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at [redacted]

cc: [redacted]

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SAMPLES INCLUDED IN THIS REPORT

Project: 21-0221, Piney Point - Phase 2

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Piney 17	E211703-01	Saline Water	4/18/21 12:00	4/20/21 10:10
Piney 18	E211703-02	Saline Water	4/18/21 13:20	4/20/21 10:10
Piney 17	E211704-01	Saline Water	4/17/21 10:26	4/20/21 10:10
Piney 19	E211704-02	Saline Water	4/17/21 11:17	4/20/21 10:10
Piney 20	E211704-03	Saline Water	4/17/21 11:52	4/20/21 10:10
Piney 18	E211704-04	Saline Water	4/17/21 13:38	4/20/21 10:10
Piney 7	E211704-05	Saline Water	4/17/21 10:40	4/20/21 10:10
Piney 3	E211704-06	Saline Water	4/17/21 11:15	4/20/21 10:10
Piney 6	E211704-07	Saline Water	4/17/21 11:45	4/20/21 10:10
Piney 8	E211704-08	Saline Water	4/17/21 12:35	4/20/21 10:10
Piney 9	E211704-09	Saline Water	4/17/21 13:10	4/20/21 10:10

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
B-4	Level in blank impacts MRLs.
D-4	MRL elevated due to interferences.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QI-1	Internal standard was outside of method control limits.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.

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Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211703-01
Station ID: PINEY 17 **Matrix:** Saline Water

Date Collected: 4/18/21 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	14	J, Q-2, QI-1	ug/L	14 / 40	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-38-2	Arsenic	2.1	J, QI-1	ug/L	1 3 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-41-7	Beryllium	1.0	U, J, QI-1	ug/L	0 33 / 1 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-42-8	Boron	3100		ug/L	120 / 1200	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-47-3	Chromium	4.0	U, J, QI-1	ug/L	2 4 / 4 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0 65 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-50-8	Copper	1.6	J, Q-2, QI-1	ug/L	0 95 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7439-95-4	Magnesium	890000		ug/L	1500 / 6200	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7439-98-7	Molybdenum	10		ug/L	0 89 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1 3 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-09-7	Potassium	260000		ug/L	2100 / 25000	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7782-49-2	Selenium	5.0	J, B-2, Q-2, QI-1	ug/L	3 2 / 5 2	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-23-5	Sodium	7100000		ug/L	2600 / 25000	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-24-6	Strontium	5300		ug/L	41 / 120	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-28-0	Thallium	2.0	U	ug/L	0 24 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-61-1	Uranium	3.3		ug/L	0 42 / 2 0	4/20/21 13:25	4/21/21 15:25	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/20/21 13:20	4/21/21 12:18	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/20/21 13:20	4/21/21 12:18	EPA 200 7

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Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211703-01
Station ID: PINEY 17 **Matrix:** Saline Water

Date Collected: 4/18/21 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.18		mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	17000		mg/L	0 32 / 2 5	4/20/21 17:10	4/21/21 22:28	EPA 300 0
16984-48-8	Fluoride	0.60	U, D-4	mg/L	0 60 / 0 60	4/20/21 19 58	4/23/21 1:31	EPA 300 0
14808-79-8	Sulfate as SO4	2200		mg/L	0 48 / 2 5	4/20/21 17:10	4/21/21 22:28	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.061		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	110		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

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Physical Properties

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211703-01

Station ID: PINEY 17 **Matrix:** Saline Water

Date Collected: 4/18/21 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
E1640507	Turbidity	1.0	U	NTU	1 0	4/20/21 11:43	4/20/21 11:54	EPA 180 1

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Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211703-02
Station ID: PINEY 18 **Matrix:** Saline Water

Date Collected: 4/18/21 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	200		ug/L	14 / 40	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-38-2	Arsenic	3.4		ug/L	1 3 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-41-7	Beryllium	1.0	U, J, QI-1	ug/L	0 33 / 1 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-42-8	Boron	2700		ug/L	120 / 1200	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-70-2	Calcium	270000		ug/L	2100 / 6200	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-47-3	Chromium	4.0	U	ug/L	2 4 / 4 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-50-8	Copper	1.9	J, Q-2	ug/L	0 95 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7439-95-4	Magnesium	790000		ug/L	1500 / 6200	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7439-98-7	Molybdenum	9.2		ug/L	0 89 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-09-7	Potassium	230000		ug/L	2100 / 25000	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7782-49-2	Selenium	6.3	J, B-2, Q-2	ug/L	3 2 / 6 8	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-23-5	Sodium	6200000		ug/L	2600 / 25000	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-24-6	Strontium	4800		ug/L	41 / 120	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-28-0	Thallium	2.0	U	ug/L	0 24 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-61-1	Uranium	2.5		ug/L	0 42 / 2 0	4/20/21 13:25	4/21/21 15:38	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/20/21 13:20	4/21/21 12:22	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/20/21 13:20	4/21/21 12:22	EPA 200 7

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Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211703-02
Station ID: PINEY 18 **Matrix:** Saline Water

Date Collected: 4/18/21 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.80	J, QM-1	mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	15000	J, QM-1, QM-2	mg/L	0 32 / 2 5	4/20/21 17:10	4/21/21 23:01	EPA 300 0
16984-48-8	Fluoride	0.60	U, J, D-4, QM-1	mg/L	0 60 / 0 60	4/20/21 19 58	4/23/21 1:47	EPA 300 0
14808-79-8	Sulfate as SO4	1900	J, QM-2, QM-3	mg/L	0 48 / 2 5	4/20/21 17:10	4/21/21 23:01	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
14265-44-2	Orthophosphate as P	0.12		mg/L	0 0038 / 0 010	4/20/21 12:35	4/20/21 12:44	EPA 365 1
7723-14-0	Total Phosphorus	0.17		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	58		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

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Physical Properties

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211703-02

Station ID: PINEY 18 **Matrix:** Saline Water

Date Collected: 4/18/21 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
E1640507	Turbidity	4.6		NTU	1 0	4/20/21 11:43	4/20/21 11:58	EPA 180 1

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Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211704-01
Station ID: PINEY 17 **Matrix:** Saline Water

Date Collected: 4/17/21 10:26

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	20	J, Q-2	ug/L	14 / 40	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-38-2	Arsenic	4.3		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-42-8	Boron	3200	J, QM-1	ug/L	120 / 1200	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-47-3	Chromium	11	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-50-8	Copper	1.6	J, Q-2	ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7439-95-4	Magnesium	910000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7439-98-7	Molybdenum	9.9		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-09-7	Potassium	270000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7782-49-2	Selenium	12		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-22-4	Silver	0.20	J, Q-2	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-23-5	Sodium	7300000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-24-6	Strontium	5400		ug/L	41 / 120	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-28-0	Thallium	1.5	J, Q-2	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-61-1	Uranium	3.1		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 13:35	EPA 200 8
7440-62-2	Vanadium	120	U, J, QM-1, QM-3	ug/L	47 / 120	4/21/21 10 55	4/22/21 11:41	EPA 200 7
7440-66-6	Zinc	250	U, J, QM-1	ug/L	26 / 250	4/21/21 10 55	4/22/21 11:41	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211704-01
Station ID: PINEY 17 **Matrix:** Saline Water

Date Collected: 4/17/21 10:26

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.20		mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	17000	J, QL-2	mg/L	0 32 / 2 5	4/23/21 16:24	4/24/21 19:40	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 / 0 70	4/26/21 16:17	4/26/21 20:50	EPA 300 0
14808-79-8	Sulfate as SO4	2100	J, QL-2	mg/L	0 48 / 2 5	4/23/21 16:24	4/24/21 19:40	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.068		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	64		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 19 **Lab ID:** E211704-02
Station ID: PINEY 19 **Matrix:** Saline Water

Date Collected: 4/17/21 11:17

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	31	J, Q-2	ug/L	14 / 40	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-38-2	Arsenic	4.6		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-42-8	Boron	3100		ug/L	120 / 1200	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-70-2	Calcium	280000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-47-3	Chromium	8.4	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-50-8	Copper	2.3		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7439-95-4	Magnesium	860000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7439-98-7	Molybdenum	10		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-09-7	Potassium	260000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7782-49-2	Selenium	12		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-22-4	Silver	0.24	J, Q-2	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-23-5	Sodium	6900000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-24-6	Strontium	5100		ug/L	41 / 120	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-28-0	Thallium	0.78	J, Q-2	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-61-1	Uranium	2.9		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 14:00	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 11:52	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 11:52	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 19 **Lab ID:** E211704-02
Station ID: PINEY 19 **Matrix:** Saline Water

Date Collected: 4/17/21 11:17

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.19		mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	17000	J, QL-2	mg/L	0 32 / 2 5	4/23/21 16:24	4/24/21 20:13	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 / 0 70	4/26/21 16:17	4/26/21 21:07	EPA 300 0
14808-79-8	Sulfate as SO4	2100	J, QL-2	mg/L	0 48 / 2 5	4/23/21 16:24	4/24/21 20:13	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.067		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	98		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 20 **Lab ID:** E211704-03
Station ID: PINEY 20 **Matrix:** Saline Water

Date Collected: 4/17/21 11:52

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	84	J, B-2, Q-2	ug/L	14 / 88	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-38-2	Arsenic	5.0		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-42-8	Boron	3100		ug/L	120 / 1200	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-43-9	Cadmium	0.38	J, Q-2	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-70-2	Calcium	270000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-47-3	Chromium	6.9	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-50-8	Copper	1.9	J, Q-2	ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7439-95-4	Magnesium	840000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7439-98-7	Molybdenum	9.8		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-09-7	Potassium	250000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7782-49-2	Selenium	11		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-23-5	Sodium	6700000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-24-6	Strontium	5000		ug/L	41 / 120	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-28-0	Thallium	0.33	J, Q-2	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-61-1	Uranium	3.0		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 14:09	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 11:56	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 11:56	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 20 **Lab ID:** E211704-03
Station ID: PINEY 20 **Matrix:** Saline Water

Date Collected: 4/17/21 11:52

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.26		mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	17000	J, QL-2	mg/L	0 32 / 2 5	4/23/21 16:24	4/24/21 20:46	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 / 0 70	4/26/21 16:17	4/26/21 21:24	EPA 300 0
14808-79-8	Sulfate as SO4	2200	J, QL-2	mg/L	0 48 / 2 5	4/23/21 16:24	4/24/21 20:46	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.088		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	95		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211704-04
Station ID: PINEY 18 **Matrix:** Saline Water

Date Collected: 4/17/21 13:38

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	210		ug/L	14 / 40	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-38-2	Arsenic	4.3		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-42-8	Boron	2800		ug/L	120 / 1200	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-43-9	Cadmium	0.41	J, Q-2	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-70-2	Calcium	260000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-47-3	Chromium	8.4	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-50-8	Copper	2.3		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7439-95-4	Magnesium	770000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7439-98-7	Molybdenum	9.0		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-09-7	Potassium	230000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7782-49-2	Selenium	12		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-23-5	Sodium	6200000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-24-6	Strontium	4800		ug/L	41 / 120	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-28-0	Thallium	2.0	U	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-61-1	Uranium	2.4		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 14:23	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 12:00	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 12:00	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211704-04
Station ID: PINEY 18 **Matrix:** Saline Water

Date Collected: 4/17/21 13:38

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.57		mg/L	0 043 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	16000	J, QL-2	mg/L	0 32 2 5	4/23/21 16:24	4/24/21 21:19	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 0 70	4/26/21 16:17	4/26/21 21:41	EPA 300 0
14808-79-8	Sulfate as SO4	2100	J, QL-2	mg/L	0 48 2 5	4/23/21 16:24	4/24/21 21:19	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.17		mg/L	0 0041 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	130		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 7 **Lab ID:** E211704-05
Station ID: PINEY 7 **Matrix:** Saline Water

Date Collected: 4/17/21 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	40	U	ug/L	14 / 40	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-38-2	Arsenic	5.5		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-42-8	Boron	3200		ug/L	120 / 1200	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-43-9	Cadmium	0.52	J, Q-2	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-47-3	Chromium	9.4	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-50-8	Copper	2.1		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7439-95-4	Magnesium	890000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7439-98-7	Molybdenum	10		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-09-7	Potassium	270000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7782-49-2	Selenium	12		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-23-5	Sodium	7200000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-24-6	Strontium	5300		ug/L	41 / 120	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-28-0	Thallium	1.4	J, Q-2	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-61-1	Uranium	3.0		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 14:55	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 12:03	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 12:03	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 7 **Lab ID:** E211704-05
Station ID: PINEY 7 **Matrix:** Saline Water

Date Collected: 4/17/21 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.27		mg/L	0 043 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	17000	J, QL-2	mg/L	0 32 2 5	4/23/21 16:24	4/24/21 21:52	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 0 70	4/26/21 16:17	4/26/21 21:57	EPA 300 0
14808-79-8	Sulfate as SO4	2300	J, QL-2	mg/L	0 48 2 5	4/23/21 16:24	4/24/21 21:52	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.22		mg/L	0 0041 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 3 **Lab ID:** E211704-06
Station ID: PINEY 3 **Matrix:** Saline Water

Date Collected: 4/17/21 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	48	J, B-2, Q-2	ug/L	14 / 52	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-36-0	Antimony	0.48	J, Q-2	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-38-2	Arsenic	5.0		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-42-8	Boron	3300		ug/L	120 / 1200	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-43-9	Cadmium	0.95	J, Q-2	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-47-3	Chromium	6.6	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-50-8	Copper	2.3		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7439-95-4	Magnesium	930000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7439-98-7	Molybdenum	9.7		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-09-7	Potassium	280000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7782-49-2	Selenium	16		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-23-5	Sodium	7500000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-24-6	Strontium	5500		ug/L	41 / 120	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-28-0	Thallium	0.49	J, Q-2	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-61-1	Uranium	3.0		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 15:03	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 12:07	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 12:07	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 3 **Lab ID:** E211704-06
Station ID: PINEY 3 **Matrix:** Saline Water

Date Collected: 4/17/21 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.29		mg/L	0 043 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	17000	J, QL-2	mg/L	0 32 2 5	4/23/21 16:24	4/24/21 22:25	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 0 70	4/26/21 16:17	4/26/21 22:14	EPA 300 0
14808-79-8	Sulfate as SO4	2200	J, QL-2	mg/L	0 48 2 5	4/23/21 16:24	4/24/21 22:25	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.27		mg/L	0 0041 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	110		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 6 **Lab ID:** E211704-07
Station ID: PINEY 6 **Matrix:** Saline Water

Date Collected: 4/17/21 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	37	J, Q-2	ug/L	14 / 40	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-38-2	Arsenic	5.0		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-42-8	Boron	3300		ug/L	120 / 1200	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-47-3	Chromium	6.9	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-50-8	Copper	2.3		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7439-95-4	Magnesium	930000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7439-98-7	Molybdenum	11		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-09-7	Potassium	280000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7782-49-2	Selenium	14		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-23-5	Sodium	7500000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-24-6	Strontium	5500		ug/L	41 / 120	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-28-0	Thallium	2.0	U	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-61-1	Uranium	3.0		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 15:11	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 12:11	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 12:11	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 6 **Lab ID:** E211704-07
Station ID: PINEY 6 **Matrix:** Saline Water

Date Collected: 4/17/21 11:45

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.23		mg/L	0 043 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	19000	J, QL-2	mg/L	0 32 2 5	4/23/21 16:24	4/24/21 22:58	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 0 70	4/26/21 16:17	4/26/21 22:31	EPA 300 0
14808-79-8	Sulfate as SO4	2400	J, QL-2	mg/L	0 48 2 5	4/23/21 16:24	4/24/21 22:58	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.12		mg/L	0 0041 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	90		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 8 **Lab ID:** E211704-08
Station ID: PINEY 8 **Matrix:** Saline Water

Date Collected: 4/17/21 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	140	J, B-2, Q-2	ug/L	14 / 150	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-38-2	Arsenic	6.0		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-42-8	Boron	3300		ug/L	120 / 1200	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-47-3	Chromium	7.2	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-50-8	Copper	2.4		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7439-95-4	Magnesium	930000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7439-98-7	Molybdenum	11		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-09-7	Potassium	280000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7782-49-2	Selenium	13		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-23-5	Sodium	7500000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-24-6	Strontium	5600		ug/L	41 / 120	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-28-0	Thallium	2.0	U	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-61-1	Uranium	3.0		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 15:20	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 12:14	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 12:14	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 8 **Lab ID:** E211704-08
Station ID: PINEY 8 **Matrix:** Saline Water

Date Collected: 4/17/21 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.28		mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	20000	J, QL-2	mg/L	0 32 / 2 5	4/23/21 16:24	4/24/21 23:31	EPA 300 0
16984-48-8	Fluoride	0.70	U, D-4	mg/L	0 70 / 0 70	4/26/21 16:17	4/26/21 22:48	EPA 300 0
14808-79-8	Sulfate as SO4	2600	J, QL-2	mg/L	0 48 / 2 5	4/23/21 16:24	4/24/21 23:31	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.22		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	120		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 9 **Lab ID:** E211704-09
Station ID: PINEY 9 **Matrix:** Saline Water

Date Collected: 4/17/21 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	52	J, B-2, Q-2	ug/L	14 / 56	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-36-0	Antimony	2.0	U	ug/L	0 48 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-38-2	Arsenic	7.2		ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-41-7	Beryllium	1.0	U	ug/L	0 33 / 1 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-42-8	Boron	3300		ug/L	120 / 1200	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-43-9	Cadmium	1.0	U	ug/L	0 37 / 1 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-47-3	Chromium	6.7	J, QR-2	ug/L	2 4 / 4 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-48-4	Cobalt	2.0	U	ug/L	0 65 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-50-8	Copper	2.2		ug/L	0 95 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7439-92-1	Lead	2.0	U	ug/L	0 25 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7439-95-4	Magnesium	940000		ug/L	1500 / 6200	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7439-98-7	Molybdenum	11		ug/L	0 89 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-02-0	Nickel	2.0	U	ug/L	1 3 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-09-7	Potassium	280000		ug/L	2100 / 25000	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7782-49-2	Selenium	16		ug/L	3 2 / 4 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-22-4	Silver	1.0	U	ug/L	0 20 / 1 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-23-5	Sodium	7700000		ug/L	2600 / 25000	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-24-6	Strontium	5600		ug/L	41 / 120	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-28-0	Thallium	2.0	U	ug/L	0 24 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-31-5	Tin	380	U, J, QC-1	ug/L	38 / 380	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-61-1	Uranium	3.0		ug/L	0 42 / 2 0	4/21/21 11 09	4/24/21 15:30	EPA 200 8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/21/21 10 55	4/22/21 12:18	EPA 200 7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/21/21 10 55	4/22/21 12:18	EPA 200 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - [redacted]

Classical/Nutrient Analyses

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 9 **Lab ID:** E211704-09

Station ID: PINEY 9 **Matrix:** Saline Water

Date Collected: 4/17/21 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7664-41-7	Ammonia as N	0.050	U	mg/L	0 012 / 0 050	4/21/21 11:29	4/21/21 12:14	EPA 350 1
E17148461	Total Kjeldahl Nitrogen	0.24		mg/L	0 043 / 0 050	4/21/21 11:32	4/22/21 15:15	EPA 351 2
16887-00-6	Chloride	19000	J, QL-2	mg/L	0 32 / 2 5	4/23/21 16:24	4/25/21 0:04	EPA 300 0
16984-48-8	Fluoride	0.70	U, J, D-4, QM-1	mg/L	0 70 / 0 70	4/26/21 16:17	4/26/21 23:04	EPA 300 0
14808-79-8	Sulfate as SO4	2500	J, QL-2, QM-2	mg/L	0 48 / 2 5	4/23/21 16:24	4/25/21 0:04	EPA 300 0
E701177	Nitrate/Nitrite as N	0.013	U, B-4	mg/L	0 013 / 0 013	4/21/21 15 02	4/23/21 18:43	EPA 353 2
7723-14-0	Total Phosphorus	0.18		mg/L	0 0041 / 0 010	4/21/21 15 00	4/23/21 16:36	EPA 365 1
E1642818	Total Suspended Solids	120		mg/L	5 0	4/21/21 9:17	4/21/21 9:17	USGS I-3765-85

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104096 - M 200.2 Metals Water										
Blank (2104096-BLK1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.7										
Boron	U	50	ug/L							U
Calcium	U	250	"							U
Iron	U	100	"							U
Magnesium	U	250	"							U
Manganese	U	5 0	"							U
Potassium	U	1000	"							U
Sodium	U	1000	"							U
Strontium	U	5 0	"							U
Tin	U	15	"							U
Titanium	U	5 0	"							U
Vanadium	U	5 0	"							U
Zinc	U	10	"							U
LCS (2104096-BS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.7										
Boron	483 74	50	ug/L	500 00		96 7	85-115			
Calcium	4946 3	250	"	5000 0		98 9	85-115			
Iron	5120 6	100	"	5000 0		102	85-115			
Magnesium	5107 1	250	"	5000 0		102	85-115			
Manganese	503 00	5 0	"	500 00		101	85-115			
Potassium	9535 1	1000	"	10000		95 4	85-115			
Sodium	9818 5	1000	"	10000		98 2	85-115			
Strontium	99 531	5 0	"	100 00		99 5	85-115			
Tin	96 181	15	"	100 00		96 2	85-115			
Titanium	97 302	5 0	"	100 00		97 3	85-115			
Vanadium	94 102	5 0	"	100 00		94 1	85-115			
Zinc	194 72	10	"	200 00		97 4	85-115			
Matrix Spike (2104096-MS1)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.7										
Boron	3437 3	1200	ug/L	500 00	2976 6	92 1	70-130			
Calcium	294920	6200	"	5000 0	278690	325	70-130			XM-1
Iron	4204 6	2500	"	5000 0	U	84 1	70-130			
Magnesium	891840	6200	"	5000 0	857520	686	70-130			XM-1
Manganese	407 19	120	"	500 00	U	81 4	70-130			
Potassium	267960	25000	"	10000	255130	128	70-130			
Sodium	7077300	25000	"	10000	6824100	2530	70-130			XM-1
Strontium	5285 3	120	"	100 00	5015 2	270	70-130			XM-1

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104096 - M 200.2 Metals Water										
Matrix Spike (2104096-MS1)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
Tin	82 953	380	ug/L	100 00	52 120	30 8	70-130			QM-1, J
Titanium	72 046	120	"	100 00	U	72 0	70-130			J
Vanadium	48 760	120	"	100 00	U	48 8	70-130			QM-1, J
Zinc	115 53	250	"	200 00	U	57 8	70-130			QM-1, J
Matrix Spike Dup (2104096-MSD1)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.7										
Boron	3363 5	1200	ug/L	500 00	2976 6	77 4	70-130	2 17	20	
Calcium	285670	6200	"	5000 0	278690	139	70-130	3 19	20	XM-1
Iron	4025 6	2500	"	5000 0	U	80 5	70-130	4 35	20	
Magnesium	870650	6200	"	5000 0	857520	263	70-130	2 40	20	XM-1
Manganese	390 40	120	"	500 00	U	78 1	70-130	4 21	20	
Potassium	262710	25000	"	10000	255130	75 8	70-130	1 98	20	
Sodium	6866300	25000	"	10000	6824100	422	70-130	3 03	20	XM-1
Strontium	5155 5	120	"	100 00	5015 2	140	70-130	2 49	20	XM-1
Tin	95 076	380	"	100 00	52 120	43 0	70-130	13 6	20	QM-1, J
Titanium	67 439	120	"	100 00	U	67 4	70-130	6 61	20	QM-1, J
Vanadium	U	120	"	100 00	U		70-130		20	QM-1, U
Zinc	104 58	250	"	200 00	U	52 3	70-130	9 95	20	QM-1, J
MRL Verification (2104096-PS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.7										
Boron	47 516	50	ug/L	50 000		95 0	70-130			MRL-2, J
Calcium	240 13	250	"	250 00		96 1	70-130			MRL-2, J
Iron	102 57	100	"	100 00		103	70-130			MRL-2
Magnesium	240 51	250	"	250 00		96 2	70-130			MRL-2, J
Manganese	5 1169	5 0	"	5 0000		102	70-130			MRL-2
Potassium	960 05	1000	"	1000 0		96 0	70-130			MRL-2, J
Sodium	952 84	1000	"	1000 0		95 3	70-130			MRL-2, J
Strontium	4 8728	5 0	"	5 0000		97 5	70-130			MRL-2, J
Tin	13 097	15	"	15 000		87 3	70-130			MRL-2, J
Titanium	5 1848	5 0	"	5 0000		104	70-130			MRL-2
Vanadium	5 7710	5 0	"	5 0000		115	70-130			MRL-2
Zinc	9 2884	10	"	10 000		92 9	70-130			MRL-2, J

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104097 - M 200.2 Metals Water										
Blank (2104097-BLK1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	U	10	ug/L							U
Antimony	U	0 50	"							U
Arsenic	U	0 50	"							U
Beryllium	U	0 25	"							U
Cadmium	U	0 25	"							U
Chromium	U	1 0	"							U
Cobalt	U	0 50	"							U
Copper	U	0 50	"							U
Lead	U	0 50	"							U
Molybdenum	U	0 50	"							U
Nickel	U	0 50	"							U
Selenium	U	1 0	"							U
Silver	U	0 25	"							U
Thallium	U	0 50	"							U
Uranium	U	0 50	"							U
LCS (2104097-BS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	4992 1	40	ug/L	5000 0		99 8	85-115			
Antimony	191 71	2 0	"	200 00		95 9	85-115			
Arsenic	203 49	2 0	"	200 00		102	85-115			
Beryllium	49 156	1 0	"	50 000		98 3	85-115			
Cadmium	48 064	1 0	"	50 000		96 1	85-115			
Chromium	192 25	4 0	"	200 00		96 1	85-115			
Cobalt	99 866	2 0	"	100 00		99 9	85-115			
Copper	103 28	2 0	"	100 00		103	85-115			
Lead	204 93	2 0	"	200 00		102	85-115			
Molybdenum	98 138	2 0	"	100 00		98 1	85-115			
Nickel	200 45	2 0	"	200 00		100	85-115			
Selenium	196 01	4 0	"	200 00		98 0	85-115			
Silver	101 68	1 0	"	100 00		102	85-115			
Thallium	198 88	2 0	"	200 00		99 4	85-115			
Uranium	201 19	2 0	"	200 00		101	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104097 - M 200.2 Metals Water										
LCS (2104097-BS2)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	5230 3	100	ug/L	5000 0		105	85-115			
Antimony	190 63	5 0	"	200 00		95 3	85-115			
Arsenic	200 83	5 0	"	200 00		100	85-115			
Beryllium	47 876	2 5	"	50 000		95 8	85-115			
Cadmium	48 398	2 5	"	50 000		96 8	85-115			
Chromium	202 07	10	"	200 00		101	85-115			
Cobalt	101 35	5 0	"	100 00		101	85-115			
Copper	103 23	5 0	"	100 00		103	85-115			
Lead	207 03	5 0	"	200 00		104	85-115			
Molybdenum	95 357	5 0	"	100 00		95 4	85-115			
Nickel	206 13	5 0	"	200 00		103	85-115			
Selenium	188 26	10	"	200 00		94 1	85-115			
Silver	100 17	2 5	"	100 00		100	85-115			
Thallium	202 68	5 0	"	200 00		101	85-115			
Uranium	203 58	5 0	"	200 00		102	85-115			
Matrix Spike (2104097-MS1)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	4269 8	40	ug/L	5000 0	32 142	84 8	70-130			QI-1
Antimony	173 28	2 0	"	200 00	U	86 6	70-130			QI-1
Arsenic	149 11	2 0	"	200 00	2 9334	73 1	70-130			QI-1
Beryllium	41 162	1 0	"	50 000	U	82 3	70-130			QI-1
Cadmium	36 710	1 0	"	50 000	U	73 4	70-130			QI-1
Chromium	191 46	4 0	"	200 00	U	95 7	70-130			QI-1
Cobalt	81 770	2 0	"	100 00	U	81 8	70-130			QI-1
Copper	73 415	2 0	"	100 00	1 4990	71 9	70-130			QI-1
Lead	169 69	2 0	"	200 00	U	84 8	70-130			
Molybdenum	108 24	2 0	"	100 00	10 158	98 1	70-130			QI-1
Nickel	150 44	2 0	"	200 00	U	75 2	70-130			QI-1
Selenium	165 68	4 0	"	200 00	4 3822	80 6	70-130			QI-1
Silver	69 569	1 0	"	100 00	U	69 6	70-130			QI-1, QM-1
Thallium	174 61	2 0	"	200 00	U	87 3	70-130			
Uranium	204 61	2 0	"	200 00	3 1669	101	70-130			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104097 - M 200.2 Metals Water										
Matrix Spike (2104097-MS2)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	4547 8	100	ug/L	5000 0	U	91 0	70-130			
Antimony	185 00	5 0	"	200 00	U	92 5	70-130			
Arsenic	177 42	5 0	"	200 00	U	88 7	70-130			
Beryllium	44 462	2 5	"	50 000	U	88 9	70-130			
Cadmium	39 407	2 5	"	50 000	U	78 8	70-130			
Chromium	186 86	10	"	200 00	U	93 4	70-130			
Cobalt	89 070	5 0	"	100 00	U	89 1	70-130			
Copper	84 443	5 0	"	100 00	U	84 4	70-130			
Lead	177 08	5 0	"	200 00	U	88 5	70-130			
Molybdenum	111 20	5 0	"	100 00	10 158	101	70-130			
Nickel	168 25	5 0	"	200 00	U	84 1	70-130			
Selenium	170 91	10	"	200 00	U	85 5	70-130			
Silver	76 822	2 5	"	100 00	U	76 8	70-130			
Thallium	177 93	5 0	"	200 00	U	89 0	70-130			
Uranium	200 76	5 0	"	200 00	3 1669	98 8	70-130			
Matrix Spike Dup (2104097-MSD1)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	4343 6	40	ug/L	5000 0	32 142	86 2	70-130	1 71	20	QI-1
Antimony	176 56	2 0	"	200 00	U	88 3	70-130	1 88	20	QI-1
Arsenic	154 21	2 0	"	200 00	2 9334	75 6	70-130	3 37	20	QI-1
Beryllium	43 835	1 0	"	50 000	U	87 7	70-130	6 29	20	QI-1
Cadmium	35 586	1 0	"	50 000	U	71 2	70-130	3 11	20	QI-1
Chromium	195 68	4 0	"	200 00	U	97 8	70-130	2 18	20	QI-1
Cobalt	83 773	2 0	"	100 00	U	83 8	70-130	2 42	20	QI-1
Copper	74 032	2 0	"	100 00	1 4990	72 5	70-130	0 837	20	QI-1
Lead	173 04	2 0	"	200 00	U	86 5	70-130	1 96	20	
Molybdenum	112 95	2 0	"	100 00	10 158	103	70-130	4 26	20	QI-1
Nickel	148 99	2 0	"	200 00	U	74 5	70-130	0 969	20	QI-1
Selenium	153 45	4 0	"	200 00	4 3822	74 5	70-130	7 66	20	QI-1
Silver	70 134	1 0	"	100 00	U	70 1	70-130	0 808	20	QI-1
Thallium	177 48	2 0	"	200 00	U	88 7	70-130	1 63	20	
Uranium	209 20	2 0	"	200 00	3 1669	103	70-130	2 22	20	

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104097 - M 200.2 Metals Water										
Matrix Spike Dup (2104097-MSD2)	**Source: E211701-09**			Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	4471 8	100	ug/L	5000 0	U	89 4	70-130	1 68	20	
Antimony	188 23	5 0	"	200 00	U	94 1	70-130	1 73	20	
Arsenic	183 96	5 0	"	200 00	U	92 0	70-130	3 62	20	
Beryllium	45 416	2 5	"	50 000	U	90 8	70-130	2 12	20	
Cadmium	40 288	2 5	"	50 000	U	80 6	70-130	2 21	20	
Chromium	186 08	10	"	200 00	U	93 0	70-130	0 414	20	
Cobalt	91 070	5 0	"	100 00	U	91 1	70-130	2 22	20	
Copper	83 911	5 0	"	100 00	U	83 9	70-130	0 632	20	
Lead	179 44	5 0	"	200 00	U	89 7	70-130	1 33	20	
Molybdenum	111 37	5 0	"	100 00	10 158	101	70-130	0 153	20	
Nickel	169 96	5 0	"	200 00	U	85 0	70-130	1 01	20	
Selenium	179 76	10	"	200 00	U	89 9	70-130	5 05	20	
Silver	77 745	2 5	"	100 00	U	77 7	70-130	1 19	20	
Thallium	176 64	5 0	"	200 00	U	88 3	70-130	0 726	20	
Uranium	206 54	5 0	"	200 00	3 1669	102	70-130	2 84	20	
MRL Verification (2104097-PS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 200.8										
Aluminum	21 483	10	ug/L	20 000		107	65-135			MRL-2
Antimony	0 48370	0 50	"	0 50000		96 7	65-135			MRL-2, J
Arsenic	1 0179	0 50	"	1 0000		102	65-135			MRL-2
Beryllium	0 50890	0 25	"	0 50000		102	65-135			MRL-2
Cadmium	0 51748	0 25	"	0 50000		103	65-135			MRL-2
Chromium	1 9460	1 0	"	2 0000		97 3	65-135			MRL-2
Cobalt	0 99649	0 50	"	1 0000		99 6	65-135			MRL-2
Copper	1 0427	0 50	"	1 0000		104	65-135			MRL-2
Lead	1 0294	0 50	"	1 0000		103	65-135			MRL-2
Molybdenum	0 51600	0 50	"	0 50000		103	65-135			MRL-2
Nickel	1 0265	0 50	"	1 0000		103	65-135			MRL-2
Selenium	2 2842	1 0	"	2 0000		114	65-135			MRL-2
Silver	0 51535	0 25	"	0 50000		103	65-135			MRL-2
Thallium	0 50475	0 50	"	0 50000		101	65-135			MRL-2
Uranium	1 0101	0 50	"	1 0000		101	65-135			MRL-2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104103 - M 200.2 Metals Water										
Blank (2104103-BLK1)				Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 200.7										
Boron	U	50	ug/L							U
Calcium	U	250	"							U
Iron	U	100	"							U
Magnesium	U	250	"							U
Manganese	U	5 0	"							U
Potassium	U	1000	"							U
Sodium	U	1000	"							U
Strontium	U	5 0	"							U
Tin	U	15	"							U
Titanium	U	5 0	"							U
Vanadium	U	5 0	"							U
Zinc	U	10	"							U
LCS (2104103-BS1)				Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 200.7										
Boron	477 52	50	ug/L	500 00		95 5	85-115			
Calcium	4923 6	250	"	5000 0		98 5	85-115			
Iron	5027 2	100	"	5000 0		101	85-115			
Magnesium	5061 5	250	"	5000 0		101	85-115			
Manganese	501 22	5 0	"	500 00		100	85-115			
Potassium	9470 1	1000	"	10000		94 7	85-115			
Sodium	9799 9	1000	"	10000		98 0	85-115			
Strontium	99 491	5 0	"	100 00		99 5	85-115			
Tin	94 354	15	"	100 00		94 4	85-115			
Titanium	95 465	5 0	"	100 00		95 5	85-115			
Vanadium	90 880	5 0	"	100 00		90 9	85-115			
Zinc	194 66	10	"	200 00		97 3	85-115			
Matrix Spike (2104103-MS1)		**Source: E211704-01**		Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 200.7										
Boron	3528 8	1200	ug/L	500 00	3248 8	56 0	70-130			QM-1
Calcium	289480	6200	"	5000 0	296720	-145	70-130			XM-1
Iron	3999 9	2500	"	5000 0	U	80 0	70-130			
Magnesium	880410	6200	"	5000 0	910770	-607	70-130			XM-1
Manganese	391 97	120	"	500 00	U	78 4	70-130			
Potassium	270930	25000	"	10000	270990	-0 581	70-130			XM-1
Sodium	7127300	25000	"	10000	7348900	-2220	70-130			XM-1
Strontium	5299 5	120	"	100 00	5446 7	-147	70-130			XM-1

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104103 - M 200.2 Metals Water										
Matrix Spike (2104103-MS1)	**Source: E211704-01**			Prepared: 04/21/21 Analyzed: 04/22/21						
Tin	87 623	380	ug/L	100 00	U	87 6	70-130			J
Titanium	71 510	120	"	100 00	U	71 5	70-130			J
Vanadium	56 972	120	"	100 00	U	57 0	70-130			QM-1, QM-3, J
Zinc	103 36	250	"	200 00	U	51 7	70-130			QM-1, J
Matrix Spike Dup (2104103-MSD1)	**Source: E211704-01**			Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 200.7										
Boron	3476 2	1200	ug/L	500 00	3248 8	45 5	70-130	1 50	20	QM-1
Calcium	300730	6200	"	5000 0	296720	80 3	70-130	3 81	20	XM-1
Iron	4097 1	2500	"	5000 0	U	81 9	70-130	2 40	20	
Magnesium	915490	6200	"	5000 0	910770	94 4	70-130	3 91	20	XM-1
Manganese	393 97	120	"	500 00	U	78 8	70-130	0 507	20	
Potassium	276370	25000	"	10000	270990	53 8	70-130	1 99	20	XM-1
Sodium	7316900	25000	"	10000	7348900	-320	70-130	2 63	20	XM-1
Strontium	5525 4	120	"	100 00	5446 7	78 7	70-130	4 17	20	
Tin	101 65	380	"	100 00	U	102	70-130	14 8	20	J
Titanium	71 010	120	"	100 00	U	71 0	70-130	0 701	20	J
Vanadium	74 350	120	"	100 00	U	74 3	70-130	26 5	20	QM-1, QM-3, J
Zinc	106 12	250	"	200 00	U	53 1	70-130	2 63	20	QM-1, J
MRL Verification (2104103-PS1)				Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 200.7										
Boron	48 873	50	ug/L	50 000		97 7	70-130			MRL-2, J
Calcium	248 50	250	"	250 00		99 4	70-130			MRL-2, J
Iron	101 16	100	"	100 00		101	70-130			MRL-2
Magnesium	244 45	250	"	250 00		97 8	70-130			MRL-2, J
Manganese	5 0444	5 0	"	5 0000		101	70-130			MRL-2
Potassium	999 45	1000	"	1000 0		99 9	70-130			MRL-2, J
Sodium	959 10	1000	"	1000 0		95 9	70-130			MRL-2, J
Strontium	4 9762	5 0	"	5 0000		99 5	70-130			MRL-2, J
Tin	13 961	15	"	15 000		93 1	70-130			MRL-2, J
Titanium	5 3837	5 0	"	5 0000		108	70-130			MRL-2
Vanadium	3 7212	5 0	"	5 0000		74 4	70-130			MRL-2, J
Zinc	9 9614	10	"	10 000		99 6	70-130			MRL-2, J

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104104 - M 200.2 Metals Water										
Blank (2104104-BLK1)				Prepared: 04/21/21 Analyzed: 04/24/21						
EPA 200.8										
Aluminum	34 517	10	ug/L							B-4
Antimony	U	0 50	"							U
Arsenic	U	0 50	"							U
Beryllium	U	0 25	"							U
Cadmium	U	0 25	"							U
Chromium	1 2000	1 0	"							B-3
Cobalt	U	0 50	"							U
Copper	U	0 50	"							U
Lead	U	0 50	"							U
Molybdenum	U	0 50	"							U
Nickel	U	0 50	"							U
Selenium	U	1 0	"							U
Silver	0 050488	0 25	"							Q-2, J
Thallium	0 13688	0 50	"							Q-2, J
Uranium	U	0 50	"							U
LCS (2104104-BS1)				Prepared: 04/21/21 Analyzed: 04/24/21						
EPA 200.8										
Aluminum	5248 0	40	ug/L	5000 0		105	85-115			
Antimony	185 54	2 0	"	200 00		92 8	85-115			
Arsenic	200 20	2 0	"	200 00		100	85-115			
Beryllium	50 092	1 0	"	50 000		100	85-115			
Cadmium	50 310	1 0	"	50 000		101	85-115			
Chromium	198 90	4 0	"	200 00		99 5	85-115			
Cobalt	99 615	2 0	"	100 00		99 6	85-115			
Copper	103 50	2 0	"	100 00		103	85-115			
Lead	197 75	2 0	"	200 00		98 9	85-115			
Molybdenum	91 919	2 0	"	100 00		91 9	85-115			
Nickel	199 91	2 0	"	200 00		100	85-115			
Selenium	213 69	4 0	"	200 00		107	85-115			
Silver	98 655	1 0	"	100 00		98 7	85-115			
Thallium	194 30	2 0	"	200 00		97 2	85-115			
Uranium	196 38	2 0	"	200 00		98 2	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104104 - M 200.2 Metals Water										
LCS (2104104-BS2)				Prepared: 04/21/21 Analyzed: 04/24/21						
EPA 200.8										
Aluminum	5383 3	100	ug/L	5000 0		108	85-115			
Antimony	192 28	5 0	"	200 00		96 1	85-115			
Arsenic	209 51	5 0	"	200 00		105	85-115			
Beryllium	52 289	2 5	"	50 000		105	85-115			
Cadmium	49 236	2 5	"	50 000		98 5	85-115			
Chromium	204 07	10	"	200 00		102	85-115			
Cobalt	100 90	5 0	"	100 00		101	85-115			
Copper	104 68	5 0	"	100 00		105	85-115			
Lead	199 95	5 0	"	200 00		100	85-115			
Molybdenum	93 021	5 0	"	100 00		93 0	85-115			
Nickel	202 73	5 0	"	200 00		101	85-115			
Selenium	213 35	10	"	200 00		107	85-115			
Silver	101 45	2 5	"	100 00		101	85-115			
Thallium	198 11	5 0	"	200 00		99 1	85-115			
Uranium	197 44	5 0	"	200 00		98 7	85-115			
Matrix Spike (2104104-MS1)	**Source: E211704-01**			Prepared: 04/21/21 Analyzed: 04/24/21						
EPA 200.8										
Aluminum	4968 0	40	ug/L	5000 0	20 108	99 0	70-130			
Antimony	183 54	2 0	"	200 00	U	91 8	70-130			
Arsenic	186 34	2 0	"	200 00	4 2679	91 0	70-130			
Beryllium	45 135	1 0	"	50 000	U	90 3	70-130			
Cadmium	42 707	1 0	"	50 000	U	85 4	70-130			
Chromium	191 34	4 0	"	200 00	10 770	90 3	70-130			
Cobalt	87 203	2 0	"	100 00	U	87 2	70-130			
Copper	81 347	2 0	"	100 00	1 6001	79 7	70-130			
Lead	171 32	2 0	"	200 00	U	85 7	70-130			
Molybdenum	108 80	2 0	"	100 00	9 9284	98 9	70-130			
Nickel	160 55	2 0	"	200 00	U	80 3	70-130			
Selenium	193 45	4 0	"	200 00	11 912	90 8	70-130			
Silver	75 243	1 0	"	100 00	U	75 2	70-130			
Thallium	174 05	2 0	"	200 00	1 4610	86 3	70-130			
Uranium	189 90	2 0	"	200 00	3 0659	93 4	70-130			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104104 - M 200.2 Metals Water										
Matrix Spike Dup (2104104-MSD1)	**Source: E211704-01**			Prepared: 04/21/21 Analyzed: 04/24/21						
EPA 200.8										
Aluminum	4768 3	40	ug/L	5000 0	20 108	95 0	70-130	4 10	20	
Antimony	188 54	2 0	"	200 00	U	94 3	70-130	2 69	20	
Arsenic	183 15	2 0	"	200 00	4 2679	89 4	70-130	1 73	20	
Beryllium	46 225	1 0	"	50 000	U	92 4	70-130	2 39	20	
Cadmium	51 717	1 0	"	50 000	U	103	70-130	19 1	20	
Chromium	189 50	4 0	"	200 00	10 770	89 4	70-130	0 962	20	
Cobalt	86 826	2 0	"	100 00	U	86 8	70-130	0 433	20	
Copper	81 517	2 0	"	100 00	1 6001	79 9	70-130	0 208	20	
Lead	168 80	2 0	"	200 00	U	84 4	70-130	1 48	20	
Molybdenum	106 94	2 0	"	100 00	9 9284	97 0	70-130	1 72	20	
Nickel	162 48	2 0	"	200 00	U	81 2	70-130	1 19	20	
Selenium	194 45	4 0	"	200 00	11 912	91 3	70-130	0 518	20	
Silver	76 743	1 0	"	100 00	U	76 7	70-130	1 97	20	
Thallium	171 15	2 0	"	200 00	1 4610	84 8	70-130	1 68	20	
Uranium	187 56	2 0	"	200 00	3 0659	92 2	70-130	1 24	20	
MRL Verification (2104104-PS1)				Prepared: 04/21/21 Analyzed: 04/24/21						
EPA 200.8										
Aluminum	24 238	10	ug/L	20 000		121	65-135			MRL-2
Antimony	0 55092	0 50	"	0 50000		110	65-135			MRL-2
Arsenic	0 87089	0 50	"	1 0000		87 1	65-135			MRL-2
Beryllium	0 55156	0 25	"	0 50000		110	65-135			MRL-2
Cadmium	0 53625	0 25	"	0 50000		107	65-135			MRL-2
Chromium	3 0708	1 0	"	2 0000		154	65-135			MRL-2, QR-2
Cobalt	0 97897	0 50	"	1 0000		97 9	65-135			MRL-2
Copper	1 0822	0 50	"	1 0000		108	65-135			MRL-2
Lead	0 89740	0 50	"	1 0000		89 7	65-135			MRL-2
Molybdenum	0 49130	0 50	"	0 50000		98 3	65-135			MRL-2, J
Nickel	0 98778	0 50	"	1 0000		98 8	65-135			MRL-2
Selenium	2 1671	1 0	"	2 0000		108	65-135			MRL-2
Silver	0 46211	0 25	"	0 50000		92 4	65-135			MRL-2
Thallium	0 57785	0 50	"	0 50000		116	65-135			MRL-2
Uranium	1 0261	0 50	"	1 0000		103	65-135			MRL-2

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104065 - C 350.1 Ammonia										
Blank (2104065-BLK1)				Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	U	0 050	mg/L							U
LCS (2104065-BS1)				Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	0 99500	0 050	mg/L	1 0000		99 5	90-110			
Matrix Spike (2104065-MS1)	**Source: E211703-02**			Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	1 0260	0 050	mg/L	1 0000	U	103	90-110			
Matrix Spike (2104065-MS2)	**Source: E211704-09**			Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	1 0200	0 050	mg/L	1 0000	U	102	90-110			
Matrix Spike Dup (2104065-MSD1)	**Source: E211703-02**			Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	1 0110	0 050	mg/L	1 0000	U	101	90-110	1 47	10	
Matrix Spike Dup (2104065-MSD2)	**Source: E211704-09**			Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	1 0110	0 050	mg/L	1 0000	U	101	90-110	0 886	10	
MRL Verification (2104065-PS1)				Prepared & Analyzed: 04/21/21						
EPA 350.1										
Ammonia as N	0 039000		mg/L	0 050000		78 0	70-130			MRL-2
Batch 2104066 - C 351.2 TKN										
Blank (2104066-BLK1)				Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	U	0 050	mg/L							U
LCS (2104066-BS1)				Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	1 6820	0 050	mg/L	1 7500		96 1	90-110			

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104066 - C 351.2 TKN										
Matrix Spike (2104066-MS1)		**Source: E211703-02**		Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	1 5280	0 050	mg/L	1 0000	0 80500	72 3	90-110			QM-1
Matrix Spike (2104066-MS2)		**Source: E211704-09**		Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	1 1490	0 050	mg/L	1 0000	0 24100	90 8	90-110			
Matrix Spike Dup (2104066-MSD1)		**Source: E211703-02**		Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	1 5220	0 050	mg/L	1 0000	0 80500	71 7	90-110	0 393	20	QM-1
Matrix Spike Dup (2104066-MSD2)		**Source: E211704-09**		Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	1 1420	0 050	mg/L	1 0000	0 24100	90 1	90-110	0 611	20	
MRL Verification (2104066-PS1)				Prepared: 04/21/21 Analyzed: 04/22/21						
EPA 351.2										
Total Kjeldahl Nitrogen	0 060000	0 050	mg/L	0 050000		120	70-130			MRL-2
Batch 2104095 - C 365.1 Ortho Phos										
Blank (2104095-BLK1)				Prepared & Analyzed: 04/20/21						
EPA 365.1										
Orthophosphate as P	U	0 010	mg/L							U
LCS (2104095-BS1)				Prepared & Analyzed: 04/20/21						
EPA 365.1										
Orthophosphate as P	0 49700	0 010	mg/L	0 50050		99 3	90-110			
Matrix Spike (2104095-MS1)		**Source: E211703-02**		Prepared & Analyzed: 04/20/21						
EPA 365.1										
Orthophosphate as P	0 60600	0 010	mg/L	0 50050	0 11600	97 9	90-110			
Matrix Spike Dup (2104095-MSD1)		**Source: E211703-02**		Prepared & Analyzed: 04/20/21						
EPA 365.1										
Orthophosphate as P	0 60700	0 010	mg/L	0 50050	0 11600	98 1	90-110	0 165	10	

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104095 - C 365.1 Ortho Phos										
MRL Verification (2104095-PS1)				Prepared & Analyzed: 04/20/21						
EPA 365.1										
Orthophosphate as P	0 010000	0 010	mg/L	0 010000		100	70-130			MRL-2
Batch 2104098 - C 300.0 Ion Chromat										
Blank (2104098-BLK1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 300.0										
Chloride	1 1820	0 10	mg/L							B-3
Sulfate as SO4	U	0 10	"							U
LCS (2104098-BS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 300.0										
Chloride	241 85	0 10	mg/L	250 00		96 7	90-110			
Sulfate as SO4	237 04	0 10	"	250 00		94 8	90-110			
Matrix Spike (2104098-MS1)		**Source: E211701-08**		Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 300.0										
Chloride	830 75		mg/L	200 00	639 76	95 5	90-110			
Matrix Spike (2104098-MS2)		**Source: E211703-02**		Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 300.0										
Chloride	774 99		mg/L	200 00	610 27	82 4	90-110			QM-1
Sulfate as SO4	268 62		"	200 00	76 042	96 3	90-110			
Matrix Spike Dup (2104098-MSD1)		**Source: E211701-08**		Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 300.0										
Chloride	834 70		mg/L	200 00	639 76	97 5	90-110	0 474	10	
Matrix Spike Dup (2104098-MSD2)		**Source: E211703-02**		Prepared: 04/20/21 Analyzed: 04/22/21						
EPA 300.0										
Chloride	851 29		mg/L	200 00	610 27	121	90-110	9 38	10	QM-2
Sulfate as SO4	297 71		"	200 00	76 042	111	90-110	10 3	10	QM-2, QM-3
MRL Verification (2104098-PS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
EPA 300.0										
Chloride	45 552	0 10	mg/L	50 000		91 1	70-130			MRL-2
Sulfate as SO4	41 349	0 10	"	50 000		82 7	70-130			MRL-2

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104098 - C 300.0 Ion Chromat										
MRL Verification (2104098-PS1)				Prepared: 04/20/21 Analyzed: 04/21/21						
Batch 2104100 - C 300.0 Ion Chromat										
Blank (2104100-BLK1)				Prepared: 04/20/21 Analyzed: 04/22/21						
EPA 300.0										
Fluoride	U	0 050	mg/L							U
LCS (2104100-BS1)				Prepared: 04/20/21 Analyzed: 04/22/21						
EPA 300.0										
Fluoride	4 9310	0 050	mg/L	5 0000		98 6	90-110			
Matrix Spike (2104100-MS1)	**Source: E211701-07**			Prepared: 04/20/21 Analyzed: 04/22/21						
EPA 300.0										
Fluoride	0 73600		mg/L	1 0000	0 11200	62 4	90-110			D-4, QM-1, XM-1
Matrix Spike (2104100-MS2)	**Source: E211703-02**			Prepared: 04/20/21 Analyzed: 04/23/21						
EPA 300.0										
Fluoride	0 74200		mg/L	1 0000	0 11100	63 1	90-110			D-4, QM-1, XM-1
Matrix Spike Dup (2104100-MSD1)	**Source: E211701-07**			Prepared: 04/20/21 Analyzed: 04/22/21						
EPA 300.0										
Fluoride	0 73700		mg/L	1 0000	0 11200	62 5	90-110	0 136	10	QM-1, XM-1, D-4
Matrix Spike Dup (2104100-MSD2)	**Source: E211703-02**			Prepared: 04/20/21 Analyzed: 04/23/21						
EPA 300.0										
Fluoride	0 74300		mg/L	1 0000	0 11100	63 2	90-110	0 135	10	D-4, QM-1, XM-1
MRL Verification (2104100-PS1)				Prepared: 04/20/21 Analyzed: 04/22/21						
EPA 300.0										
Fluoride	0 042000	0 050	mg/L	0 050000		84 0	70-130			MRL-2, J

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104101 - C 2540 Solids										
Blank (2104101-BLK1)				Prepared & Analyzed: 04/21/21						
USGS I-3765-85										
Total Suspended Solids	U	5 0	mg/L							U
LCS (2104101-BS1)				Prepared & Analyzed: 04/21/21						
USGS I-3765-85										
Total Suspended Solids	104 70	5 0	mg/L	100 00		105	77 1-110			
LCS Dup (2104101-BSD1)				Prepared & Analyzed: 04/21/21						
USGS I-3765-85										
Total Suspended Solids	109 10	5 0	mg/L	100 00		109	77 1-110	4 12	10	
Duplicate (2104101-DUP1)		**Source: E211704-08**		Prepared & Analyzed: 04/21/21						
USGS I-3765-85										
Total Suspended Solids	119 00	5 0	mg/L		118 30			0 590	10	
MRL Verification (2104101-PS1)				Prepared & Analyzed: 04/21/21						
USGS I-3765-85										
Total Suspended Solids	6 2000	5 0	mg/L	5 0000		124	57 1-130			MRL-2
Batch 2104105 - C 365.1 TPhos										
Blank (2104105-BLK1)				Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	U	0 010	mg/L							U
LCS (2104105-BS1)				Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	0 37700	0 010	mg/L	0 37800		99 7	90-110			
Matrix Spike (2104105-MS1)		**Source: E211703-02**		Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	0 66800	0 010	mg/L	0 50050	0 16700	100	90-110			
Matrix Spike (2104105-MS2)		**Source: E211704-06**		Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	0 76400	0 010	mg/L	0 50050	0 26800	99 1	90-110			

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104105 - C 365.1 TPhos										
Matrix Spike Dup (2104105-MSD1)	**Source: E211703-02**			Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	0 67000	0 010	mg/L	0 50050	0 16700	100	90-110	0 299	10	
Matrix Spike Dup (2104105-MSD2)	**Source: E211704-06**			Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	0 77000	0 010	mg/L	0 50050	0 26800	100	90-110	0 782	10	
MRL Verification (2104105-PS1)				Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 365.1										
Total Phosphorus	0 010000	0 010	mg/L	0 010000		100	70-130			MRL-2
Batch 2104106 - C 353.2 NO3-NO2										
Blank (2104106-BLK1)				Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	U	0 050	mg/L							U
LCS (2104106-BS1)				Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	0 49330	0 050	mg/L	0 50150		98 4	90-110			
Matrix Spike (2104106-MS1)	**Source: E211703-02**			Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	0 50500	0 050	mg/L	0 50150	0 012400	98 2	90-110			
Matrix Spike (2104106-MS2)	**Source: E211704-07**			Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	0 50480	0 050	mg/L	0 50150	0 011100	98 4	90-110			
Matrix Spike Dup (2104106-MSD1)	**Source: E211703-02**			Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	0 50730	0 050	mg/L	0 50150	0 012400	98 7	90-110	0 454	10	
Matrix Spike Dup (2104106-MSD2)	**Source: E211704-07**			Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	0 50660	0 050	mg/L	0 50150	0 011100	98 8	90-110	0 356	10	

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104106 - C 353.2 NO3-NO2										
MRL Verification (2104106-PS1)				Prepared: 04/21/21 Analyzed: 04/23/21						
EPA 353.2										
Nitrate/Nitrite as N	0 052800	0 050	mg/L	0 050000		106	70-130			MRL-2
Batch 2104125 - C 300.0 Ion Chromat										
Blank (2104125-BLK1)				Prepared: 04/23/21 Analyzed: 04/24/21						
EPA 300.0										
Chloride	U	0 10	mg/L							U
Sulfate as SO4	U	0 10	"							U
LCS (2104125-BS1)				Prepared: 04/23/21 Analyzed: 04/24/21						
EPA 300.0										
Chloride	289 63	0 10	mg/L	250 00		116	90-110			QL-2
Sulfate as SO4	287 18	0 10	"	250 00		115	90-110			QL-2
Matrix Spike (2104125-MS1)	**Source: E211704-09**			Prepared: 04/23/21 Analyzed: 04/25/21						
EPA 300.0										
Chloride	998 14		mg/L	200 00	761 07	119	90-110			XM-1
Sulfate as SO4	319 96		"	200 00	98 595	111	90-110			QM-2
Matrix Spike Dup (2104125-MSD1)	**Source: E211704-09**			Prepared: 04/23/21 Analyzed: 04/25/21						
EPA 300.0										
Chloride	956 93		mg/L	200 00	761 07	97 9	90-110	4 22	10	
Sulfate as SO4	307 57		"	200 00	98 595	104	90-110	3 95	10	
MRL Verification (2104125-PS1)				Prepared: 04/23/21 Analyzed: 04/24/21						
EPA 300.0										
Chloride	47 293	0 10	mg/L	50 000		94 6	70-130			MRL-2
Sulfate as SO4	44 231	0 10	"	50 000		88 5	70-130			MRL-2
Batch 2104137 - C 300.0 Ion Chromat										
Blank (2104137-BLK1)				Prepared & Analyzed: 04/26/21						
EPA 300.0										
Fluoride	U	0 050	mg/L							U

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104137 - C 300.0 Ion Chromat										
LCS (2104137-BS1)				Prepared & Analyzed: 04/26/21						
EPA 300.0										
Fluoride	4 9470	0 050	mg/L	5 0000		98 9	90-110			
Matrix Spike (2104137-MS1)	**Source: E211704-09**			Prepared & Analyzed: 04/26/21						
EPA 300.0										
Fluoride	0 80300		mg/L	1 0000	0 068000	73 5	90-110			D-4, QM-1, XM-1
Matrix Spike Dup (2104137-MSD1)	**Source: E211704-09**			Prepared & Analyzed: 04/26/21						
EPA 300.0										
Fluoride	0 80600		mg/L	1 0000	0 068000	73 8	90-110	0 373	10	D-4, QM-1, XM-1
MRL Verification (2104137-PS1)				Prepared & Analyzed: 04/26/21						
EPA 300.0										
Fluoride	0 042000	0 050	mg/L	0 050000		84 0	70-130			MRL-2, J

Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104094 - M Turbidity										
Blank (2104094-BLK1)				Prepared & Analyzed: 04/20/21						
EPA 180.1										
Turbidity	U	1 0	NTU							U
Blank (2104094-BLK2)				Prepared & Analyzed: 04/20/21						
EPA 180.1										
Turbidity	U	1 0	NTU							U
Reference (2104094-SRM1)				Prepared & Analyzed: 04/20/21						
EPA 180.1										
Turbidity	1 4500	1 0	NTU	1 4800		98 0	0-200			
Reference (2104094-SRM2)				Prepared & Analyzed: 04/20/21						
EPA 180.1										
Turbidity	15 900	1 0	NTU	16 100		98 8	0-200			
Reference (2104094-SRM3)				Prepared & Analyzed: 04/20/21						
EPA 180.1										
Turbidity	1 4700	1 0	NTU	1 4800		99 3	0-200			
Reference (2104094-SRM4)				Prepared & Analyzed: 04/20/21						
EPA 180.1										
Turbidity	16 000	1 0	NTU	16 100		99 4	0-200			

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs.
D-4	MRL elevated due to interferences.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria