



REPORT

2026 Annual Groundwater Monitoring and Corrective Action Report Volume 2 of 2

Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4

Submitted to:



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July 31, 2026

Appendices

- Appendix H: 2026 First Semi-Annual Pilot Study Progress Summary
- Appendix I: Monitoring Well Installation (DGWC-134, DGWC-135, and B-136D) Report
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APPENDIX H

2026 First Semi-Annual Pilot Study Progress Summary

2026 First Semi-Annual Pilot Study Progress Summary

Georgia Power Company - Plant McDonough-Atkinson Ash Pond 2 and 3/4

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CERTIFICATION STATEMENT

This *2026 First Semi-Annual Pilot Study Progress Summary, Georgia Power Company – Plant McDonough-Atkinson Ash Pond 2 and 3/4 (AP-2 & 3/4)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with WSP USA Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



Mark T. Prytula, PhD, PE
Georgia Registered Professional Engineer No. 026729
Date: July 31, 2026

2026 First Semi-Annual Pilot Study Progress Summary

Plant McDonough-Atkinson Ash Pond 2 and 3/4 (AP-2 & 3/4) Georgia Power Company

July 31, 2026

Introduction

This *2026 First Semi-Annual Pilot Study Progress Summary* was developed by WSP USA, Inc. (WSP) as part of the process of implementing the Assessment of Corrective Measures (ACM) at Georgia Power Company (Georgia Power) Plant McDonough-Atkinson Ash Pond 2 and 3/4 (AP-2 and 3/4). The selected remedy for cobalt SSLs at AP-2 and 3/4 as presented in the Draft Remedy Selection Report (WSP, 2023; WSP, 2025a) is in-situ injection. The nature and extent of cobalt at AP-2 and 3/4 is presented in the adjoining 2026 Annual Groundwater Monitoring and Corrective Action Report (WSP, 2026). The Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of corrective measures, was submitted to Georgia Environmental Protection Division (GA EPD) on August 31, 2023, with revisions provided on November 10, 2025 (WSP, 2023; WSP, 2025a). Following GA EPD's approval of the Pilot Study Workplan (WSP, 2025b) on February 18, 2026, a pilot study was initiated at AP-2 and 3/4 in support of the ongoing remedy selection process. The purpose of this *Pilot Study Progress Summary* is to provide an update regarding the pilot study data collected from January to June 2026 (reporting period).

Pilot Study Summary

Following the initial rounds of AP-2 and 3/4 pilot study injection in 2025, supplemental injections were implemented in 2026. The first round of supplemental injection activities was performed from March 2 through March 11, 2026 by Cascade Drilling, L.P. (Cascade) with technical supervision conducted by WSP. Approximately 2,454 gallons (gal) of an injectate solution containing 100 grams per liter (g/L) potassium bicarbonate (KHCO_3) and 20 milligrams per liter (mg/L) sodium bromide (NaBr) tracer in potable water were administered at INW-05 in the AP-2 and 3/4 pilot study area. The second round of supplemental injections were performed from May 12 to 21, 2026, with approximately 2,747 gal of 150 g/L KHCO_3 and 20 mg/L NaBr tracer and potable water, also administered at INW-05. Pilot study injection activities were completed in accordance with the GA EPD approved Supplemental Pilot Test Notification Form and Pilot Study Workplan (WSP, 2025c).

Additional details pertaining to the remedial implementation (baseline characterization, mixing strategy, and dose response monitoring following the initial phase of injection) can be found in the *Pilot Study Post-Injection Report* (WSP, 2025d).

Sampling Summary

A post-injection performance monitoring program was initiated on March 16, 2026 during which groundwater samples were collected from the injection wells and dose response wells (INW-03, INW-04, DR-02, and DR-03). Post-injection performance monitoring continued during the reporting period per the sampling schedule provided in **Table 1**. This sampling schedule was updated from the *Supplemental Pilot Study Workplan* (WSP, 2025c) to reflect the second injection in May 2026 and subsequent post-injection performance monitoring. Groundwater samples collected from these performance monitoring piezometers were analyzed for the complete suite of Appendix III and Appendix IV constituents (except total radium) and select metals and inorganics necessary to evaluate groundwater geochemistry.

The groundwater analytical results from the post-injection performance monitoring events between March 16 and June 30, 2026 are summarized in **Table 2**. Time series for cobalt associated with the pilot study are shown on **Figure 1**. The field and laboratory reports associated with these results are provided in **Appendices A** and **B**. Results received after June 30, 2026, will be summarized in the next semi-annual groundwater monitoring and corrective action report.

Summary

Updates concerning the pilot study progress will continue to be reported to GA EPD as a progress memorandum included as part of subsequent semi-annual groundwater monitoring and corrective action reporting. A comprehensive technical memorandum will be prepared at the conclusion of the post-injection performance monitoring program associated with the pilot study and submitted as a stand-alone document. Observations and reporting as a result of the pilot study will be used in the design and implementation of corrective measures moving forward. If pilot study results support full-scale implementation, Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection) and monitored natural attenuation (MNA). After the public meeting, Georgia Power will revise the *Draft Remedy Selection Report*, incorporating results of the pilot study and public meeting.

References

WSP 2023. *Draft Remedy Selection Report*, Georgia Power Company – Plant McDonough-Atkinson Ash Pond AP-2 and 3/4, WSP USA Inc., August 31, 2023.

WSP 2025a. *Draft Remedy Selection Report*, Georgia Power Company – Plant McDonough-Atkinson Ash Pond AP-2 and 3/4, WSP USA Inc., November 10, 2025.

WSP 2025b. Pilot Study Workplan, Plant McDonough-Atkinson Ash Pond 2 and 3/4, WSP USA, Inc., February 2025.

WSP 2025c. Supplemental Pilot Study Workplan, Plant McDonough-Atkinson Ash Pond 2 and Ash Pond 3/4 (AP-2 and 3/4), WSP USA, Inc., December 2025.

WSP 2025d. Pilot Study Post-Injection Event Report, Pilot Test No. UPT000083, Plant McDonough-Atkinson Ash Pond 3/4 (DGWC-20). WSP USA Inc., August 2025.

WSP 2026. 2026 Annual Groundwater Monitoring and Corrective Action Plan, Plant McDonough-Atkinson Ash Pond 2 and 3/4, WSP USA, Inc., July 31, 2026.

Attachments

Tables

Table 1: Pilot Study Sample Schedule

Table 2: Pilot Study Groundwater Analytical Data Summary

Figures

Figure 1: Time series - Cobalt

Appendices

Appendix A: Field Forms

Appendix B: Laboratory Reports

TABLES

TABLE 1
Pilot Study Sample Schedule
Georgia Power Company - Plant McDonough-Atkinson
Ash Pond 2 and Ash Pond 3/4
Cobb County, Georgia

Parameter		Analytical Method	GWPS ^(1,2) (mg/L)	Post-Injection Monitoring ⁽⁴⁾							
				Week 1 3/16/2026	Week 3 3/30/2026	Week 5 4/14/2026	Month 2 5/6/2026		Post 2nd Supplemental 5/27/2026	Month 3 6/3/2026	
APPENDIX III	Boron	EPA 6010B/6020B	--								X
	Calcium	EPA 6010B/6020B	--	X						X	
	Chloride	300.0/300.1/9250/9251/9253/9056A	--	X						X	
	Fluoride	300.0/300.1/9214/9056A	--	X	X	X	X	X	X	X	
	pH	150.1 field	--	X	X	X	X	X	X	X	
	Sulfate	9035/9036/9038/300.0/300.1/9056A	--	X						X	
	TDS	160/2540C	--	X						X	
APPENDIX IV	Antimony	EPA 7040/7041/6010D/6020B	0.006	X	X	X	X		X	X	
	Arsenic	EPA 7060A/7061A/6010D/6020B	0.01	X	X	X	X		X	X	
	Barium	EPA 7080A/7081/6010D/6020B	2	X	X	X	X		X	X	
	Beryllium	EPA 7090/7091/6010D/6020B	0.004	X	X	X	X		X	X	
	Cadmium	EPA 7130/7131A/6020B	0.005	X	X	X	X		X	X	
	Chromium	EPA 7190/7191/6010D/6020B	0.1	X	X	X	X		X	X	
	Cobalt	EPA 7200/7201/6010D/6020B	0.016	X	X	X	X		X	X	
	Fluoride	300.0/300.1/9214/9056A	4	X	X	X	X		X	X	
	Lead	EPA 6010D/6020B	0.015	X	X	X	X		X	X	
	Lithium	EPA 6010D/6020B	0.04	X	X	X	X		X	X	
	Mercury	EPA 7470	0.002	X	X	X	X		X	X	
	Molybdenum	EPA 6010D/6020B	0.1	X	X	X	X		X	X	
	Selenium	EPA 7740/7741A/6010D/6020B	0.05	X	X	X	X		X	X	
	Thallium	EPA 7840/7841/6010D/6020B	0.002	X	X	X	X		X	X	
GEOCHEM	Bromide	300.0/300.1	--	X	X	X	X		X	X	
	Bicarbonate Alkalinity	SM2320B-2011	--	X	X	X	X		X	X	
	Total Alkalinity	SM2320B-2011	--	X	X	X	X		X	X	
	Iron	EPA 7190/7191/6010D/6020B	--	X						X	
	Magnesium	EPA 7200/7201/6010D/6020B	--	X						X	
	Manganese	EPA 7190/7191/6010D/6020B	--	X						X	
	Potassium	EPA 7200/7201/6010D/6020B	--	X	X	X	X	X	X	X	
	Sodium	EPA 7200/7201/6010D/6020B	--	X						X	
	Sulfide	SM4500-S2D	--	X						X	
FIELD	Temperature	--	--	X	X	X	X		X	X	
	pH	--	--	X	X	X	X		X	X	
	ORP	--	--	X	X	X	X		X	X	
	Turbidity	--	--	X	X	X	X		X	X	
	Specific Conductance	--	--	X	X	X	X		X	X	
	Dissolved Oxygen	--	--	X	X	X	X		X	X	

Notes:
GWPS - Groundwater Protection Standard; TDS - total dissolved solids; ORP - oxidation reduction potential
mg/L - milligrams per liter
-- - Not Applicable
(1) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.
(2) Appendix IV parameters will be screened against the site-specific GWPS which are reported in mg/L.
(3) The total duration of monitoring may be reduced with approval from GA EPD. Frequency of analysis of certain post-injection parameters may be adjusted based on field observations. For example, Appendix IV constituents detected after injections may be analyzed more frequently.
(4) Estimated groundwater velocity suggests that a minimum of two weeks is required to obtain a physically independent and representative sample.
(5) The first injection event took place from March 2 through March 11, 2026, and the second injection event took place from May 11 through May 21, 2026.

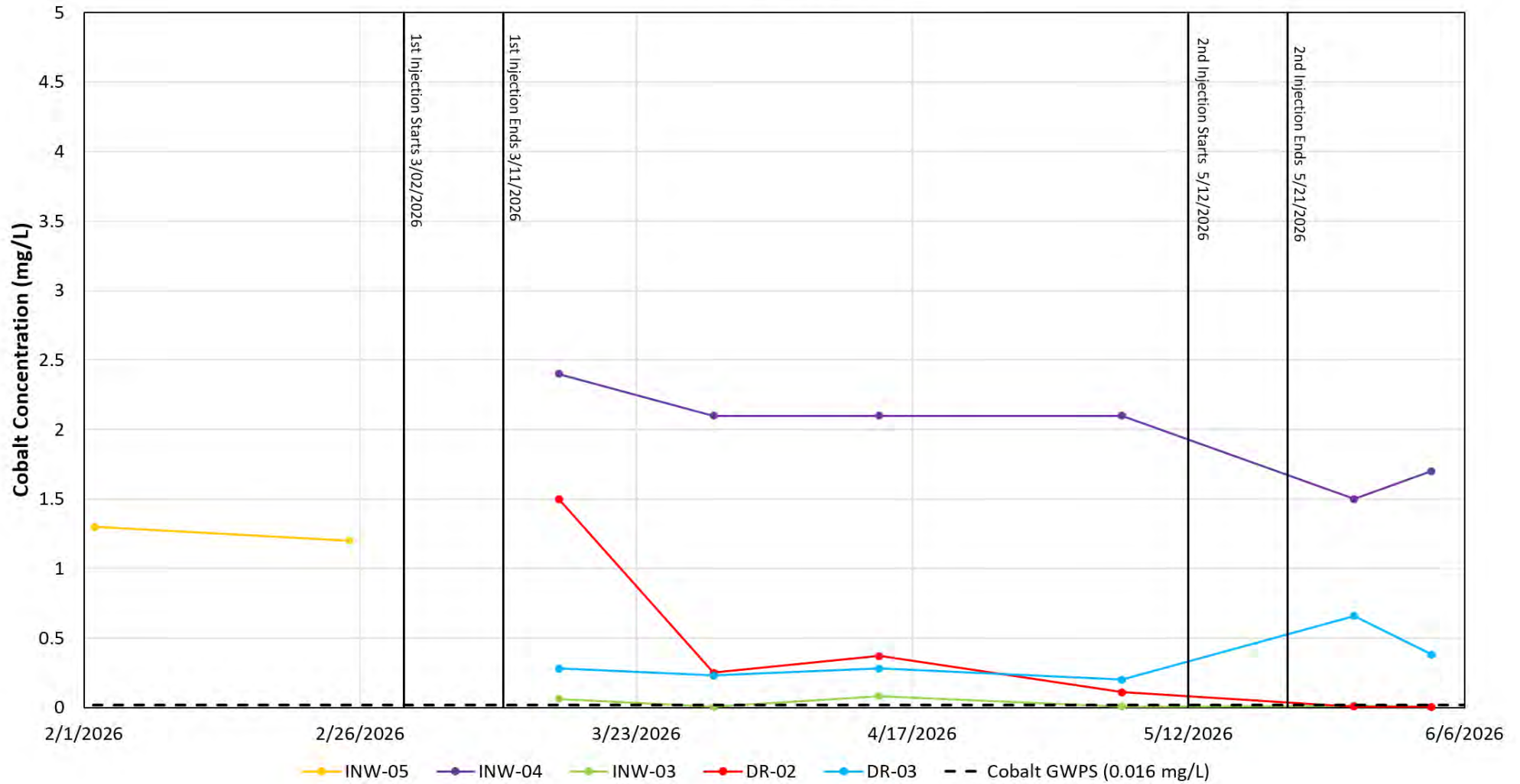


TABLE 2
Pilot Study Groundwater Analytical Data Summary
Georgia Power Company - Plant McDonough-Atkinson
Ash Pond 2 and Ash Pond 3/4
Cobb County, Georgia

		Well ID: Sample Date:		INW-05		INW-03						INW-04						DR-02						DR-03						
				2/2/2026	2/25/2026	3/16/2026	3/30/2026	4/14/2026	5/6/2026	5/27/2026	6/3/2026	3/16/2026 ⁽¹⁾	3/30/2026 ⁽¹⁾	4/14/2026 ⁽¹⁾	5/6/2026 ⁽¹⁾	5/27/2026 ⁽¹⁾	6/3/2026 ⁽¹⁾	3/16/2026 ⁽³⁾	3/30/2026 ⁽³⁾⁽⁴⁾	4/14/2026 ⁽³⁾	5/6/2026 ⁽³⁾	5/27/2026 ⁽³⁾	6/3/2026 ⁽³⁾	3/16/2026	3/30/2026	4/14/2026	5/6/2026	5/27/2026	6/3/2026	
Parameter		GWPS ^(1,2)	Units																											
APPENDIX III	Boron, Total	--	mg/L	3.5	4.2	1.4	0.89	1.3	1.2 J	0.92	1.5	3.5	3.3	3.0	3.10	2.30	2.8	4.0	2.5	2.5	2.9	2.1	2.3	4.7	4.2	4.2	3.9	4.4	4.9	
	Boron, Dissolved	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	2.8	3.3	3.0	3.10	2.40	2.4	3.2	0.49	2.4	3.0	1.6	1.8	NA	NA	NA	NA	NA		
	Bromide	--	mg/L	1.7	1.0	8.0	<0.060	<0.060	10.4	12.1	11.0	4.4	3.3	4.3	3.60	<0.060	<0.060	4.8	<0.060	<0.060	1.6	7.7	6.1	0.14	0.13	0.12	0.13	0.26	0.18	
	Calcium, Total	--	mg/L	78.9	87.1	60.6	NA	NA	NA	4.4	8.4	151	NA	NA	NA	143.0	135	106	NA	NA	NA	1.3 J	1.7 J	69.6	NA	NA	NA	87.0	53.2	
	Calcium, Dissolved	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	150	NA	NA	NA	140.000	137	101	NA	NA	NA	5.400	6.2	NA	NA	NA	NA	NA	NA	
	Chloride	--	mg/L	11.2	10.9	<0.60	NA	NA	NA	10.2	10.4	12.3	NA	NA	NA	12.9	1.5	<0.60	NA	NA	NA	12.2	11.4	16.6	NA	NA	NA	NA	15.5	16.7
	Fluoride	--	mg/L	1.3	1.0	<0.050	0.078 J	<0.050	<0.050	<0.40	<0.050	1.3	1.8	1.7	1.8	1.20	1.4	0.23	<0.050	<0.050	0.24	<0.050	<0.050	0.36	0.28	0.28	0.19	0.94	0.64	
	pH, Field	--	S.U.	5.67	5.45	7.02	7.50	7.05	7.30	7.42	7.48	6.14	6.00	5.77	5.80	6.40	6.22	6.69	7.12	6.69	6.65	7.30	7.28	5.52	5.33	5.46	5.21	5.42	5.43	
	Sulfate	--	mg/L	539	565	427	NA	NA	NA	477	441	684	NA	NA	NA	697	742	651	NA	NA	NA	701	598	255	NA	NA	NA	363	267	
	TDS	--	mg/L	1190	1110	10800	NA	NA	NA	38600	45400	2500	NA	NA	NA	5500	3510	7600	NA	NA	NA	30500	32800	527	NA	NA	NA	689	510	
APPENDIX IV	Antimony, Total	0.006	mg/L	<0.011	<0.00043	<0.00043	<0.0043	<0.0022	<0.022	<0.0022	<0.0022	<0.022	<0.00043	<0.00043	<0.0043	<0.0022	<0.0022	<0.00043	<0.0022	<0.0022	<0.0086	<0.0022	<0.0022	<0.00043	<0.0043	<0.00043	<0.00043	<0.00043	<0.00043	
	Arsenic, Total	0.01	mg/L	0.025	<0.010	<0.00041	<0.0041	<0.0020	<0.020	0.0035 J	0.0042 J	0.0025	0.012	0.0082	0.0065 J	0.0051 J	0.0053 J	0.00092 J	<0.0020	<0.0020	<0.0082	0.0026 J	0.0027 J	0.0019 J	<0.0041	0.0037	0.0023	<0.0082	0.0049	
	Barium, Total	2	mg/L	0.089	0.077	0.32	0.025 J	0.31	<0.028	0.045	0.13	0.10 J	0.089	0.078	0.068	0.140	0.11	0.25	0.19	0.28	0.17	0.04	0.074	0.019	0.018 J	0.018	0.018	0.027	0.021	
	Beryllium, Total	0.004	mg/L	0.0058	0.0050	<0.00015	<0.0015	<0.00075	<0.0075	<0.0038	<0.00075	0.0034	0.0037	0.0039	0.0041	0.0018 J	0.0035	0.0011	<0.0038	<0.00075	<0.0030	<0.00075	<0.00075	0.0020	0.0011	0.0016	0.0013	0.0053	0.0033	
	Cadmium, Total	0.005	mg/L	0.0019	0.0017	0.00026 J	<0.0010	<0.00050	<0.0050	<0.00050	<0.00050	0.0028	0.0032	0.0031	0.0033 J	0.0018 J	0.0025 J	0.0019	<0.00050	0.00056 J	<0.0020	<0.00050	<0.00050	0.0014	<0.0010	0.0005	0.00037 J	0.0007	0.00062	
	Chromium, Total	0.1	mg/L	0.00062 J	0.00025 J	0.0013 J	0.0063 J	<0.0012	<0.012	<0.0060	0.0066 J	0.00084 J	0.0028 J	0.0022 J	<0.0024	<0.0012	<0.0012	0.00073 J	<0.0060	<0.0012	<0.0048	0.0024 J	0.0032 J	0.00043 J	<0.0024	0.00027 J	0.00033 J	0.00027 J	0.00028 J	
	Cobalt, Total	0.016	mg/L	1.3	1.2	0.062	0.0045 J	0.082	<0.0060	0.013 J	0.0040 J	2.4	2.1	2.1	2.10	1.50	1.7	1.5	0.25	0.37	0.11	0.0066 J	0.0052 J	0.28	0.23	0.28	0.20	0.66	0.38	
	Fluoride, Total	4	mg/L	1.3	1.0	<0.050	0.078 J	<0.050	<0.050	<0.40	<0.050	1.3	1.8	1.7	1.8	1.200	1.4	0.23	<0.050	<0.050	0.24	<0.050	<0.050	0.360	0.28	0.28	0.19	0.94	0.64	
	Lead, Total	0.015	mg/L	<0.00027	<0.0068	<0.0027	<0.0027	<0.0014	<0.014	<0.0068	<0.0068	<0.014	0.0015	0.0013	<0.0027	<0.0014	<0.0014	<0.014	<0.0014	<0.0014	<0.0054	<0.0068	<0.0068	<0.014	<0.0027	<0.00027	<0.00027	<0.00027	<0.00027	
	Lithium, Total	0.04	mg/L	0.0101	0.00928	<0.00540	<0.00540	<0.00540	<0.000600	<0.00540	<0.00540	0.00154 J	0.00266	0.00203	0.00339	0.00757 J	0.00160 J	<0.00600	<0.00600	0.00119 J	0.00187 J	0.00592 J	<0.00540	0.00587	0.00602	0.00744	0.00754	0.00634	0.00687	
	Mercury, Total	0.002	mg/L	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	
	Molybdenum, Total	0.1	mg/L	<0.0020	<0.0020	<0.0020	<0.020	<0.0099	<0.099	0.013 J	0.021 J	<0.0020	<0.0020	<0.0020	<0.0099	<0.0099	0.0040 J	<0.0099	<0.0099	<0.040	0.018 J	0.022 J	<0.0020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
	Selenium, Total	0.05	mg/L	0.05	0.044	0.0085	0.023 J	0.027	<0.025	0.040	0.047	0.046	0.066	0.037	0.052	0.027	0.022 J	0.013	0.013 J	0.0091 J	<0.010	0.032	0.029	0.016	0.011 J	0.0068	0.0057	0.0270	0.011	
	Thallium, Total	0.002	mg/L	0.0037	<0.0042	0.0025	0.0080	0.0075	<0.0085	0.011 J	0.012 J	<0.0085	0.0037	0.0029	0.0028 J	0.006	0.0050	0.0066	0.013	0.014	0.0087 J	0.020	0.018	0.00067	<0.0017	0.00098	0.00086	0.00110	0.00097	
	Antimony, Dissolved	0.006	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.022	<0.00043	<0.00043	<0.00043	<0.0022	<0.0022	<0.00043	0.00031	<0.0022	<0.00043	<0.0022	<0.0022	NA	NA	NA	NA	NA	NA	
	Arsenic, Dissolved	0.01	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0015 J	0.0097	0.010	0.005	0.0036 J	0.0042 J	<0.00041	0.00016	<0.0020	<0.00041	0.0028 J	0.0021 J	NA	NA	NA	NA	NA	NA	
	Barium, Dissolved	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.090	0.074	0.078	0.064	0.140	0.11	0.24	0.043	0.24	0.19	0.07	0.081	NA	NA	NA	NA	NA	NA	
	Beryllium, Dissolved	0.004	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0030	0.0040	0.0046	0.0036 J	0.0017 J	0.0027	0.00069	<0.00075	<0.0075	<0.0015	<0.00075	<0.00075	NA	NA	NA	NA	NA	NA	
	Cadmium, Dissolved	0.005	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	0.0032	0.0031	0.0029	0.0019 J	0.0024 J	0.0019	<0.00050	<0.00050	0.00016 J	<0.00050	<0.00050	NA	NA	NA	NA	NA	NA	
	Chromium, Dissolved	0.1	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.00024	0.00050 J	0.0019 J	0.00045 J	<0.0012	<0.0012	0.00024 J	0.0003	<0.012	0.00077 J	0.0033 J	0.0026 J	NA	NA	NA	NA	NA	NA	
	Cobalt, Dissolved	0.016	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	1.9	2.2	2.2	2.1	1.6	1.6	1.2	0.070	0.37	0.12	0.0048 J	0.0089 J	NA	NA	NA	NA	NA	NA	
	Lead, Dissolved	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.00027	<0.00027	0.0010	<0.00027	<0.0014	<0.0014	<0.00027	<0.0014	<0.0014	<0.00027	<0.0068	<0.0068	NA	NA	NA	NA	NA	NA	
	Lithium, Dissolved	0.04	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.00263	0.00508	0.00203	0.00205	0.00135 J	0.00119 J	<0.00600	0.00250	0.00150 J	0.00115 J	0.000917 J	<0.00540	NA	NA	NA	NA	NA	NA	
	Mercury, Dissolved	0.002	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	<0.000091	NA	NA	NA	NA	NA	NA	
	Molybdenum, Dissolved	0.1	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0020	<0.0020	<0.0020	<0.0099	<0.0099	0.0039 J	<0.0099	<0.0099	<0.0020	0.018 J	0.016 J	NA	NA	NA	NA	NA	NA	
	Selenium, Dissolved	0.05	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.037	0.055	0.036	0.062	0.023 J	0.018 J	0.0081	<0.0025	<0.025	0.0045 J	0.033	0.021 J	NA	NA	NA	NA	NA	NA	
	Thallium, Dissolved	0.002	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.0037	0.0037	0.0030	0.0026 J	0.006	0.0045	0.0066	0.0027	0.012	0.0084	0.0150	0.016	NA	NA	NA	NA	NA	NA	
GEOCHEM	Bicarbonate Alkalinity	--	mg/L	113	84.4	6620	22300	9940	13500	29200	31800	1100	637	546	441	2050	1410	4590	7360	904	2250	17200	21400	46.2	38.7	48.8	30.8	62.5	38.1	
	Carbonate Alkalinity	--	mg/L	NA	NA	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	698	209	NA	NA	NA	NA	2720.0	NA	NA	NA	NA	NA</			

FIGURES

Time Series - Cobalt



Notes:

1. mg/L = milligrams per liter
2. GWPS = Groundwater Protection Standard
3. Non detections were reported at the method detection limit.
4. For samples with turbidity > 5 NTU, dissolved results are plotted; refer to Table 2.

CLIENT		PROJECT	
GEORGIA POWER COMPANY		2026 FIRST SEMI-ANNUAL PILOT STUDY PROGRESS	
SOUTHERN COMPANY SERVICES		SUMMARY	
CONSULTANT		TITLE	
wsp		Time Series - Cobalt	
YYYY-MM-DD		PROJECT No.	
2026-05-29		31406440.Mcd23	
PREPARED		Rev	
JMB		0	
DESIGN		FIGURE	
JMB		1	
REVIEW			
APPROVED			

APPENDIX A

Field Forms

APPENDIX A

**Instrument Calibration Records
February 2026**

Site Name MC 0

Field Instrumentation Calibration Form

Date 2/2/26Field Conditions Clear 205Calibrated By JS

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1120055
Turbidity Meter	Hach 2100Q	220000337

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	5-11		
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4.581	15.03	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.02	15.53	± 0.1	GWMP
pH (SU)	7.00	7.004	8.510	± 0.1	GWMP
pH (SU)	10.00	10.00	5.011	± 0.1	GWMP
D.O. (%)	N/A	107.7	16.82	$\pm 10\%$	NA
ORP (mV)	228.0	241.4	14.58	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.09200	$\pm 10\%$ of standard	EPA 2023
	10	10.0		
	50	50.0		
	10	1.5		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4.501	15.3	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.01		± 0.1	GWMP
pH (SU)	7.00	7.07		± 0.1	GWMP
pH (SU)	10.00	10.10		± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.9	$\pm 10\%$ of standard	EPA 2023
	10	10.9		
	50	78.7		
	10	9.93		

Notes

Site Name Plant McD

Field Instrumentation Calibration Form

Date 2/2/2026Field Conditions coldCalibrated By MB

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1283499
Turbidity Meter	Hach 2100Q	241001200008

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	24021650	9/2026	AIR
pH (SU)	4.00	24021650		
pH (SU)	7.00	24021711		
pH (SU)	10.00	24022784		
D.O. (%)	N/A			
ORP (mV)	228.0	24020598	9/2026	AIR

Calibration					
Time Start <u>0750</u>		Time Finish <u>0815</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4.353	19.2	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	3.954	19.2	± 0.1	GWMP
pH (SU)	7.00	6.948	12.5	± 0.1	GWMP
pH (SU)	10.00	9.992	11.3	± 0.1	GWMP
D.O. (%)	N/A	99.7	MBH 6.9	$\pm 10\%$	NA
ORP (mV)	228.0	226.7	11.7	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	21.9	$\pm 10\%$ of standard	EPA 2023
	100	106		
	200	202		
	1.0	10.5		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4.530	16.02	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.01		± 0.1	GWMP
pH (SU)	7.00	7.67		± 0.1	GWMP
pH (SU)	10.00	10.19		± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.8	$\pm 10\%$ of standard	EPA 2023
	100	101		
	200	232		
	1.0	9.91		

Notes

Date: 2/25/26Time: 1520Prepared By: Daniel Howard

Checked By: _____

WSP USA Inc.

Project No.

Sonde ID: 1283097Handset ID: 1Battery Voltage %: 99

CALIBRATION PRIOR TO SAMPLING

TEMPERATURE VERIFICATION PRIOR TO BEGINNING OF FIELD EVENT; NOT REQUIRED FOR EVERY CALIBRATION		
Reading (°C) of NIST-Traceable Thermometer	Measurement conducted in liquid media at stabilized room	
Reading (°C) of field instrument	temperature	
Note: Measured temperature of liquid media by NIST-traceable thermometer and field instrument should agree within $\pm 4.0^\circ\text{C}$. Instrument must be repaired or replaced beyond that range.		
DISSOLVED OXYGEN (DO)		
Was DO membrane changed?	Yes _____ No ☒	DATE: _____ TIME: _____
Current Air Temperature °C (meter reading):		18.39
Current Barometric Pressure (from Weather Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	mbars 982.7
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	9.200
DO concentration after Calibration (mg/L):		9.889
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	101.2
DO Charge (DO ch):	Acceptable Range is 25 to 75	—
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	0.92050457
Note:		
CONDUCTIVITY [Note: Calibrate before pH to avoid carry-over from pH standards (i.e. pH buffers are conductive)]		
Calibration standard used (mS/cm)	Lot # 24021650 9/26	
Temperature (°C)		44.90
Reading before Calibration (mS/cm)		18.92
Reading AFTER Calibration (mS/cm)		4530
Conductivity Cell Constant (unitless):		4490
		0.996
Note: Be sure conductivity cell is submerged and free of bubbles (gently tap sonde on table)		
pH		
pH 7.0 value before calibration:	24021711 9/26	7.096
pH 7.0 value after calibration:		7.030
pH 7.0 mV (range is -50 to +50 mV):		18.74
pH 10 value before calibration:	24022984 9/26	8.3
pH 10 value after calibration:		10.09
pH 10 mV (range is -130 to -230 mV):		18.16
pH 4.0 value before calibration:	24021650 9/26	179.8
pH 4.0 value after calibration:		4.080
pH 4.0 mV (range is 130 to 230 mV):		19.19
		165.2
Note: Span between pH 4 and 7, and 7 and 10 should be between 165 to 180 mV		
OXIDATION/REDUCTION POTENTIAL (ORP)		
Calibration Temperature (°C):	24020598 9/26	17.96
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	
Reading before calibration (mV):		228
Reading after calibration (mV):		228.8
		228.0
Note: mV theory will change with temperature, so calculate based on your current temp.		
TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.		
20 NTU Turbidity Standard	Before Cal:	After Cal: 20.5
100 NTU Turbidity Standard	Before Cal:	After Cal: 104
800 NTU Turbidity Standard	Before Cal:	After Cal: 804
10 NTU Turbidity Check STD	Before Cal:	After Cal: 10.1
___ NTU Turbidity Check STD	Before Cal:	After Cal:
CALIBRATION SUCCESSFUL?		
TEMPERATURE VERIFICATION AT END OF FIELD EVENT		
Reading (°C) of NIST-Traceable Thermometer	Measurement conducted in liquid media at stabilized room	
Reading (°C) of field instrument	temperature	

APPENDIX A

**Instrument Calibration Records
March 2026**

Site Name: MU

Field Instrumentation Calibration Form

Date: 3/16/26Calibrated By: Zach RynderField Conditions: 52, rainy

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1153823
Turbidity Meter	Hach 2100Q	156306034574

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	24021650	04/26	ALR
pH (SU)	4.00	↓		
pH (SU)	7.00	24021711		
pH (SU)	10.00	24023784		
D.O. (%)	N/A			
ORP (mV)	228.0	24020598	↓	↓

Calibration					
Time Start <u>0856</u>		Time Finish <u>0</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	5057	18.74	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.065	18.80	± 0.1	GWMP
pH (SU)	7.00	7.038	18.75	± 0.1	GWMP
pH (SU)	10.00	10.07	18.15	± 0.1	GWMP
D.O. (%)	N/A	105.8	17.68	$\pm 10\%$	NA
ORP (mV)	228.0	230.0	18.47	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.0	$\pm 10\%$ of standard	EPA 2023
	100	99.4		
	1000	806		
	10	10.0		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	5001	14.21	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.033	14.19	± 0.1	GWMP
pH (SU)	7.00	7.038		± 0.1	GWMP
pH (SU)	10.00	10.022		± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.99	$\pm 10\%$ of standard	EPA 2023
	20	20.0		
	100	101		
	800	805		

Notes:

Site Name: McDonough
 Calibrated By: Zach Rymer

Field Instrumentation Calibration Form

Date: 3/16/26
 Field Conditions: 52, rainy

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	283497
Turbidity Meter	Hach 2100Q	15030603470

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/26	AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24021711	↓	↓
pH (SU)	10.00	24022784	↓	↓
D.O. (%)	N/A	—	↓	↓
ORP (mV)	228.0	24020548	↓	↓

Calibration					
Time Start <u>0830</u>		Time Finish <u>0850</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4834	18.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.032	18.57	± 0.1	GWMP
pH (SU)	7.00	7.017	18.68	± 0.1	GWMP
pH (SU)	10.00	10.03	18.43	± 0.1	GWMP
D.O. (%)	N/A	108.7	17.12	± 10%	NA
ORP (mV)	228.0	232.5	18.46	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.0	± 10% of standard	EPA 2023
	100	99.1		
	800	803		
	10	9.88		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
			± 10% of standard	EPA 2023

Notes:

Calibration Report

Instrument Aqua TROLL 400
Serial Number 1283118
Created 3/30/2026

Sensor **RDO**

Serial Number 1233681
Last Calibrated 3/30/2026

Calibration Details

Slope 1
Offset 217.6 mg/L

Calibration point 100%

Concentration 8.626 mg/L
Temperature 21.98 °C
Barometric Pressure 985.7 mbar

Sensor **Conductivity**

Serial Number 1283118
Last Calibrated 3/30/2026

Calibration Details

Offset 0.000 µS/cm
Cell Constant 0.983
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 1283121
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	23265
Last Calibrated	3/30/2026

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	167.6 mV
Temperature	18.03 °C

Calibration Point 2

pH of Buffer	7.020 pH
pH mV	-2.7 mV
Temperature	18.17 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-173.2 mV
Temperature	18.19 °C

Slope and Offset 1

Slope	-56.4 mV/pH
Offset	-1.6 mV

Slope and Offset 2

Slope	-56.27 mV/pH
Offset	-1.6 mV

ORP

ORP Solution	Zobell's
Offset	0.6 mV
Temperature	18.27 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1283499
Created	3/30/2026

Sensor	RDO
--------	------------

Serial Number	1233624
Last Calibrated	3/30/2026

Calibration Details

Slope	0.86747164
Offset	-0.000 mg/L

Calibration point 100%

Concentration	10.91 mg/L
Temperature	17.38 °C
Barometric Pressure	1,000 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	1283499
Last Calibrated	3/30/2026

Calibration Details

Offset	0.000 µS/cm
Cell Constant	0.965
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	1283122
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	23275
Last Calibrated	3/30/2026

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	160.2 mV
Temperature	17.69 °C

Calibration Point 2

pH of Buffer	7.020 pH
pH mV	2.3 mV
Temperature	17.98 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-178.5 mV
Temperature	18.01 °C

Slope and Offset 1

Slope	-52.3 mV/pH
Offset	3.3 mV

Slope and Offset 2

Slope	-59.67 mV/pH
Offset	3.5 mV

ORP

ORP Solution	Zobell's
Offset	9.2 mV
Temperature	17.89 °C

APPENDIX A

Instrument Calibration Records

April 2026

Site Name: 161 Dorough

Field Instrumentation Calibration Form

Date 4/14/26Calibrated By: Zach Ryder

Field Conditions _____

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	126444
Turbidity Meter	Hach 2100Q	23110000004

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	24021650	09/26	AJA
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24021711	↓	↓
pH (SU)	10.00	24022784	↓	↓
D.O. (%)	N/A	—	↓	↓
ORP (mV)	228.0	24020518	↓	↓

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	4842	22.48	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	3.968	22.40	± 0.1	GWMP
pH (SU)	7.00	6.945	23.26	± 0.1	GWMP
pH (SU)	10.00	9.943	23.31	± 0.1	GWMP
D.O. (%)	N/A	102.1	22.05	$\pm 10\%$	NA
ORP (mV)	228.0	220.2	23.06	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.0	$\pm 10\%$ of standard	EPA 2023
	100	99.9		
	800	740		
	10	9.65		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490			$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
			$\pm 10\%$ of standard	EPA 2023

Notes:

Site Name McDonough

Field Instrumentation Calibration Form

Date 4/14/26Calibrated By Zach Ryder

Field Conditions _____

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1265037
Turbidity Meter	Hach 2100Q	24080000350

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S cm}$)	4,490	24021650	09/26	ATP
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24021711	↓	↓
pH (SU)	10.00	24022784	↓	↓
D.O. (%)	N/A	—	↓	↓
ORP (mV)	228.0	24020548	↓	↓

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S/cm}$)	4,490	4553	22.40	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.020	22.63	± 0.1	GWMP
pH (SU)	7.00	7.015	23.14	± 0.1	GWMP
pH (SU)	10.00	10.02	23.41	± 0.1	GWMP
D.O. (%)	N/A	101.1	22.03	$\pm 10\%$	NA
ORP (mV)	228.0	217.1	23.01	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.1	$\pm 10\%$ of standard	EPA 2023
	100	99.1		
	800	788		
	10	9.85		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S/cm}$)	4,490			$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
			$\pm 10\%$ of standard	EPA 2023

Notes:

APPENDIX A

**Instrument Calibration Records
May 2026**

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1264994
Created	5/6/2026

Sensor	RDO
--------	------------

Serial Number	1234934
Last Calibrated	5/6/2026

Calibration Details

Slope	0.9222717
Offset	-0.000 mg/L

Calibration point 100%

Concentration	8.879 mg/L
Temperature	21.38 °C
Barometric Pressure	986.3 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	1264994
Last Calibrated	5/6/2026

Calibration Details

Offset	0.000 µS/cm
Cell Constant	1.01
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	1259313
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	23182
Last Calibrated	5/6/2026

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	159.0 mV
Temperature	21.10 °C

Calibration Point 2

pH of Buffer	7.020 pH
pH mV	-4.9 mV
Temperature	21.06 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-175.4 mV
Temperature	21.20 °C

Slope and Offset 1

Slope	-54.28 mV/pH
Offset	-3.8 mV

Slope and Offset 2

Slope	-56.28 mV/pH
Offset	-3.8 mV

ORP

ORP Solution	ORP Standard
Offset	7.5 mV
Temperature	21.23 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1265037
Created	5/6/2026

Sensor	RDO
--------	------------

Serial Number	1233602
Last Calibrated	5/6/2026

Calibration Details

Slope	0.84496015
Offset	-0.000 mg/L

Calibration point 100%

Concentration	10.26 mg/L
Temperature	21.04 °C
Barometric Pressure	986.6 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	1265037
Last Calibrated	5/6/2026

Calibration Details

Offset	0.000 µS/cm
Cell Constant	0.968
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	1263987
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	23177
Last Calibrated	5/6/2026

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	162.2 mV
Temperature	21.65 °C

Calibration Point 2

pH of Buffer	7.020 pH
pH mV	-7.2 mV
Temperature	21.40 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-175.0 mV
Temperature	21.45 °C

Slope and Offset 1

Slope	-56.09 mV/pH
Offset	-6.1 mV

Slope and Offset 2

Slope	-55.38 mV/pH
Offset	-6.1 mV

ORP

ORP Solution	ORP Standard
Offset	2.5 mV
Temperature	21.44 °C

Site Name: MCD

Field Instrumentation Calibration Form

Date: 5.27.26Field Conditions: 72 Cloudy

Calibrated By:

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1285133
Turbidity Meter	Hach 2100Q	230600000490

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	4404	22.93	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.032	22.90	± 0.1	GWMP
pH (SU)	7.00	7.051	22.90	± 0.1	GWMP
pH (SU)	10.00	10.09	22.97	± 0.1	GWMP
D.O. (%)	N/A	98.24%	22.99/24.24	$\pm 10\%$	NA
ORP (mV)	228.0	231.9	22.99	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	21.1	$\pm 10\%$ of standard	EPA 2023
	100	99.8		
	800	800		
	10	9.33		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490			$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
			$\pm 10\%$ of standard	EPA 2023

Notes:

Site Name:

Plant MCD

Field Instrumentation Calibration Form

Date:

05/27/2020

Field Conditions:

cloudy, 70°

Calibrated By:

JCT

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1183447
Turbidity Meter	Hach 2100Q	23160D000269

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (μS/cm)	4,490	24011650	09/2024	Air
pH (SU)	4.00	24011711		
pH (SU)	7.00	24022784		
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0	14020518		

Calibration

Time Start	Time Finish				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (μS/cm)	4,490	4433	22.85	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.69	± 0.1	GWMP
pH (SU)	7.00	7.02	22.60	± 0.1	GWMP
pH (SU)	10.00	10.02	22.56	± 0.1	GWMP
D.O. (%)	N/A	11.57	22.55	± 10%	NA
ORP (mV)	228.0	232.6	22.51	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.9		
	100	99.0		
	800	804		

Calibration Check

Time Start	Time Finish				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (μS/cm)	4,490	4460	25.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.65	25.14	± 0.1	GWMP
pH (SU)	7.00	7.05	25.12	± 0.1	GWMP
pH (SU)	10.00	10.63	25.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	19.9		
	100	99.7		
	800	802		

Notes:

APPENDIX A

**Instrument Calibration Records
June 2026**

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080306
Created	6/3/2026

Sensor	RDO
--------	------------

Serial Number	1166196
Last Calibrated	6/3/2026

Calibration Details

Slope	0.88926196
Offset	-0.000 mg/L

Calibration point 100%

Concentration	10.38 mg/L
Temperature	18.44 °C
Barometric Pressure	997.5 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	1080306
Last Calibrated	6/3/2026

Calibration Details

Offset	0.000 µS/cm
Cell Constant	0.95
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	1081454
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	22515
Last Calibrated	6/3/2026

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	167.5 mV
Temperature	18.43 °C

Calibration Point 2

pH of Buffer	7.020 pH
pH mV	0.3 mV
Temperature	18.48 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-166.8 mV
Temperature	18.54 °C

Slope and Offset 1

Slope	-55.37 mV/pH
Offset	1.4 mV

Slope and Offset 2

Slope	-55.15 mV/pH
Offset	1.4 mV

ORP

ORP Solution	Zobell's
Offset	10.6 mV
Temperature	18.42 °C

Site Name: MU

Field Instrumentation Calibration Form

Date: 6.3.26Field Conditions: bl Sunny

Calibrated By:

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1082817
Turbidity Meter	Hach 2100Q	23060D 000290

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration

Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490	4910	20.66	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.031	21.46	± 0.1	GWMP
pH (SU)	7.00	7.11	21.99	± 0.1	GWMP
pH (SU)	10.00	10.27	22.04	± 0.1	GWMP
D.O. (%)	N/A	109.9%	24.87	$\pm 10\%$	NA
ORP (mV)	228.0	226	22.33	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	18.1	$\pm 10\%$ of standard	EPA 2023
	100	102		
	800	800		
	10	10.1		

Calibration Check

Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4,490			$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
			$\pm 10\%$ of standard	EPA 2023

Notes:

APPENDIX A

**Field Data Forms
February 2026**

Project #: 31406440.MCD23		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: MCD-INW-05	Date: 2/2/26	Water Level (ft): 15.03	Time (WL): 0940		
Physical Condition of Well: Good	Weather: cold & clear				
Well Diameter (in): 2	Well Depth (ft): 35.76	Water Column (ft): 20.73	Well Volume (gal): 3.38		
Start Purge: 1035	End Purge: 1300	Top of Pump (ft): 30.7			
Evacuation Method: Low-Flow		Volume Removed (gal): 14.5L			
Evacuation Equipment: Peristaltic pump		Purging Personnel: Daniel Howard			
AquaTroll serial #: 1170046		Hach serial #: 22090000345			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1250	clear	none	5.673	1.669	0.878	16.21	124.1	5.27	15.75	100
1255	↓	↓	5.676	1.666	0.874	16.50	124.4	5.05	15.75	100
1300	↓	↓	5.669	1.667	0.878	16.44	124.0	4.82	15.75	100
—	sample	time	1300							

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2mg/L (whichever is greater; for DO < 0.5 mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3 L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-05 Sample Date/Time: 2/2/26/1300 Metals Date/Time: 2/2/26/1300
Duplicate: — Dup Date/Time: — Final Turbidity NTU: 4.82
Field Blank: — Blank Date/Time: — Turbidity Date/Time: 2/2/26/1300

# Sample Bottles	Container	Preservative	Analyte(s)
2	250ml plastic	HNO ₃	App III IV + Major Ions
1	500ml plastic	—	TDS
1	250ml plastic	—	300.0 - Br, SO ₄ , Cl, F
1	250ml plastic	—	Alk
1	125ml plastic	NaOH + ZnAc	Sulfide
			Fe2+ (field): —

Signature: Daniel R Howard

PURGING AND SAMPLING FORM

Project #: 31406440.MCD23-DN 02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: INW-05		Date: 2/25/26		Water Level (ft): 14.90	
Physical Condition of Well: Good		Weather: Overcast		Time (WL): 1550	
Well Diameter (in): 2		Well Depth (ft): 36.38		Water Column (ft): 21.48	
Start Purge: 1620		End Purge: 1735		Well Volume (gal): 3.50	
Evacuation Method: Low-Flow		Top of Pump (ft): 31.4		Volume Removed (gal): 11.25 L	
Evacuation Equipment: Peristaltic pump		Purging Personnel: Daniel Howard			
AquaTroll serial #: 1283097		Hach serial #: 23160D000373			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1725	clear	none	5.377	1440	0.459	18.05	119.7	5.21	15.50	150
1730	↓	↓	5.431	1437	0.451	18.06	90.9	4.73	15.50	150
1735	↓	↓	5.448	1452	0.402	17.98	87.9	4.81	15.50	150
sample time	1735									

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-05 Sample Date/Time: 2/25/26/1735 Metals Date/Time: 2/25/26/1735
Duplicate: MCD-AP234-FD-1 Dup Date/Time: 2/25/26/- Final Turbidity NTU: 4.81
Field Blank: MCD-AP234-FB-1 Blank Date/Time: 2/25/26/1700 Turbidity Date/Time: 2/25/26/1735
MCD-AP234-EB-1 2/25/26/1710

# Sample Bottles	Container	Preservative	Analyte(s)
2, 2, 2, 2	250ml poly	HNO ₃	App III/IV + Major Ions
1, 1, 1, 1	500ml poly	FD5 none	FD5
1, 1, 1, 1	250ml poly	none	Alk
1, 1, 1, 1	250ml poly	none	Br, SO ₄ , Cl, F
1, 1, 1, 1	125ml poly	NaOH, ZnAc	Sulfide
			Fe2+ (field): -

Signature: Daniel L Howard

WSP

APPENDIX A

Field Data Forms
March 2026

PURGING AND SAMPLING FORM

Project # 31406440 02		Project Name/Site Name: SCS Plant McDonough		Page 1 of 1	
Well ID # MCD-INW-04	Date: 3/16/26	Water Level (ft) 13.66		Time (WL) 1420	
Physical Condition of Well: Good		Weather: Rain/sleet 40°			
Well Diameter (in): 2	Well Depth (ft): 38.11	Water Column (ft) 24.45	Well Volume (gal) 399		
Start Purge: 1444	End Purge: 1524	Top of Pump (ft): 33.11			
Evacuation Method: Low-Flow		Volume Removed (gal): 5.0L			
Evacuation Equipment: Peristaltic		Purging Personnel: Brad Bryon			
AquaTroll serial #: 1153823		Hach serial #: 160300039579			

Purge Data/Field Parameters

Purge Data/Field Parameters										
Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1514	Clear	None	6.129	2,957	0.228	12.97	105.2	39.8	14.48	125
1519			6.139	2,847	0.244	12.94	106.5	38.7		
1524			6.143	2,990	0.224	13.63	104.9	37.9		
		Sample	1524							

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-04 Sample Date/Time: 3/16/26/1524 Metals Date/Time: 3/16/26/1524
Duplicate: MCD-INW-04-Filtered Dup Date/Time: 3/16/26/1524 Final Turbidity NTU: 37.9
Field Blank: Blank Date/Time: Turbidity Date/Time: 3/16/26/1524

# Sample Bottles	Container	Preservative	Analyte(s)
2 + 2	250 mL Plastic	Nitric Acid	Total metals
1	500 mL	---	TDS
1	250 mL	---	Alk
1	250 mL	---	300. O-Cl, F, SO ₄ , Br
1	125 mL	NaOH, Zn Ac	4500520 Sulfide Meter
			Fe2+ (field): As (field):

Signature: V. Brad Bryon

WSP

PURGING AND SAMPLING FORM

Project #: 31406440.02	Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1
Well ID #: MLD-DR-03	Date: 03/16/26	Water Level (ft): 13.52	Time (WL): 1032
Physical Condition of Well: good		Weather: 50, rainy	
Well Diameter (in): 2	Well Depth (ft): 38	Water Column (ft): 24.48	Well Volume (gal): 3.49
Start Purge: 1116	End Purge: 1140	Top of Pump (ft): 33	
Evacuation Method: Low-Flow		Volume Removed (gal): 6 L = 1.585 gal	
Evacuation Equipment: Per.		Purging Personnel: Zach Rynd.	
AquaTroll serial #: 1283447		Hach serial #: 15030003970	

Purge Data/Field Parameters

[illegible]

Stabilization Criteria: pH $\pm$ 0.1 S.U, Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MLD-DR-03

Sample Date/Time: 3.16.26 / 1140

Metals Date/Time: 3, 16.26/1140

Duplicate:

Dup Date/Time: —

Final Turbidity NTU:

Field Blank: MLD-AP234-FB-1

Blank Date/Time: 3.16.26 / 1200

Turbidity Date/Time: 3.16.26/1140

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500 mL pl	—	TDS
1 + 1	250 mL pl	—	23203 Alk, total + Bicarbonate
1 + 1	250 mL pl	—	300 O-Li, F, SO ₄ , Br
1 + 1	250 mL pl	HNO ₃	App III / IV / Major Ions (1)
1 + 1	250 mL pl	HNO ₃	↓ (2)
1 + 1	125 mL pl	NaOH, ZnAc	4500S 217 Sulfide Water
			Fe ²⁺ (field): X As (field): X

Signature: Anthony Kyndler

11/11

PURGING AND SAMPLING FORM

Project # 31406440.02	Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1
Well ID # MLD-DR-02	Date: 3/16/26	Water Level (ft): 14.01	Time (WL): 1252
Physical Condition of Well: good		Weather: 45 rainy	
Well Diameter (in): 2	Well Depth (ft): 38.27	Water Column (ft): 24.26	Well Volume (gal): 3.95
Start Purge: 1313	End Purge: 1416	Top of Pump (ft): 31.27	
Evacuation Method: Low-Flow		Volume Removed (gal): 13.64 L = 3.60 gal	
Evacuation Equipment: Per	Purging Personnel: Zach Snyder		
AquaTroll serial #: 1283447	Hach serial #: 15030003470		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. ($\mu\text{S}/\text{cm}$)	DO (mg/L)	Temp ($^{\circ}\text{C}$)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1408	Slightly milky	Metallic	6.676	8150	0.052	16.82	66.7	20.6	16.15	200
1413	↓	↓	6.678	9164	0.052	16.62	67.6	15.9	↓	↓
1416	✓	↓	6.688	7943	0.049	16.54	65.0	14.4	↓	↓
Sampled @ 1416										

Stabilization Criteria: pH $\pm$ 0.1 S.U, Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MLD-DR-02

Sample Date/Time: ~~11/15/2018~~

Metals Date/Time: 3.16.26 / 1416

Duplicate: 1

Dup Date/Time: _____

Final Turbidity NTU: 14.4

Field Blank: MLD-AP, 234 - EB-1

Blank Date/Time: 3/16/26 1436

Turbidity Date/Time: 3.16.26 / 1416

# Sample Bottles	Container	Preservative	Analyte(s)
1+1	500 mL pl	—	TDS
1+1	250 mL pl	—	2320 B, Alk, total + Bicarbonate
1+1	250 mL pl	—	300 O-L, F, SO ₄ , Br
2+2	250 mL pl	HNO ₃	App III/IV Major Ions
2	250 mL pl	HNO ₃	App III/IV Major Ions (Field filtered)
1+1	125 mL pl	NaOH, ZnAc	4500 S20 Sulfate Water
			Fe2+ (field): X As (field): X

Signature:

Trading Report

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>INW-03</u>		Date: <u>3/16/26</u>		Water Level (ft): <u>14.44</u>	
Physical Condition of Well: <u>good</u>		Weather: <u>40 overcast</u>			
Well Diameter (in): <u>2</u>		Well Depth (ft): <u>38.81</u>		Water Column (ft): <u>24.37</u>	
Start Purge: <u>1555</u>		End Purge: <u>1640</u>		Well Volume (gal): <u>3.47</u>	
Evacuation Method: <u>Low-Flow</u>		Top of Pump (ft): <u>31</u>			
Evacuation Equipment: <u>Peri</u>		Volume Removed (gal): <u>4.5 L = 1.189 gal</u>			
AquaTroll serial #: <u>1283497</u>		Purging Personnel: <u>Zach Rynder</u>			
		Hach serial #: <u>150300039579</u>			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate mL/min
1630	<u>Clear</u>	<u>None</u>	<u>6.883</u>	<u>8561</u>	<u>0.141</u>	<u>17.21</u>	<u>29.2</u>	<u>1.49</u>	<u>17.66</u>	<u>100</u>
1635	<u>↓</u>	<u>↓</u>	<u>6.932</u>	<u>9531</u>	<u>0.132</u>	<u>16.44</u>	<u>23.2</u>	<u>1.36</u>	<u>17.71</u>	<u>↓</u>
1640	<u>↓</u>	<u>↓</u>	<u>7.018</u>	<u>11393</u>	<u>0.173</u>	<u>17.03</u>	<u>19.4</u>	<u>1.22</u>	<u>17.71</u>	<u>↓</u>
			<u>Sampled @ 1640</u>				<u>ZLA</u>			

Stabilization Criteria: pH $\pm$ 0.1 S.U, Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-03 Sample Date/Time: 3.16.26/1640 Metals Date/Time: 3.16.26/1640
Duplicate: MCD-AP234-FD-1 Dup Date/Time: — Final Turbidity NTU: 1.22
Field Blank: — Blank Date/Time: — Turbidity Date/Time: 3.16.26/1640

# Sample Bottles	Container	Preservative	Analyte(s)
<u>1+1</u>	<u>500 mL pl</u>	<u>—</u>	<u>TDS</u>
<u>1+1</u>	<u>250 mL pl</u>	<u>—</u>	<u>2320 B Alk total + Bicarbonate</u>
<u>1+1</u>	<u>250 mL pl</u>	<u>—</u>	<u>300 O-G, P, SO₄, Br</u>
<u>2+2</u>	<u>250 mL pl</u>	<u>HNO₃</u>	<u>App III/IV Major Ions</u>
<u>1+1</u>	<u>125 mL pl</u>	<u>NaOH, ZnAc</u>	<u>4500 s2 D Sulfate Water</u>
		Fe2+ (field): <u>X</u>	As (field): <u>X</u>

Signature: Zach Rynder

PURGING AND SAMPLING FORM

Project #: 31406440.02	Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1
Well ID #: 1NW-03	Date: 03/30/20	Water Level (ft): 14.10	Time (WL): 1107
Physical Condition of Well:		Weather: Cloudy, 62°	
Well Diameter (in): 2	Well Depth (ft): 38.81	Water Column (ft): 24.70	Well Volume (gal): 4.02
Start Purge: 1148	End Purge: 1218	Top of Pump (ft): 31.81	
Evacuation Method: Low-Flow		Volume Removed (gal):	
Evacuation Equipment: Peristaltic Pump		Purging Personnel: J. Talaber	
AquaTroll serial #: 1283118		Hach serial #: 23110D000009	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1208	CLR	none	7.52	38,610	217.7	19.54	9.0	2.30	15.92	200
1213	↓	↓	7.51	38,117	↓	19.64	8.5	1.75	16.01	↓
1218	↓	↓	7.50	37,983	↓	19.75	7.8	0.91	↓	↓
Sampled @ 1218										

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-1NW-03 Sample Date/Time: 03/30/20 1218 Metals Date/Time: _____
Duplicate: MCD-AP234-FD-2 Dup Date/Time: 03/30/20 Final Turbidity NTU: 0.91
Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 03/30/20 1218

# Sample Bottles	Container	Preservative	Analyte(s)
2	250ml Plastic	HNO3	APP1W + Boron / Potassium
1	↓	none	300, O-F, Br
1	↓	none	2320B Alkalinity, Total Bicarb
EF [2	↓	HNO3	6010D, 6020B, 7470A
1	↓	none	300-ORGFM-28D-F
		Fe2+ (field): _____	As (field): _____

Signature: Johit Talaber

WSP

PURGING AND SAMPLING FORM

Project # 31406440.02	Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>
Well ID # <u>MLD-INW-04</u>	Date: <u>3/30/26</u>	Water Level (ft): <u>13.97</u>	Time (WL): <u>1141</u>
Physical Condition of Well: <u>Good</u>		Weather: <u>62 Cloudy</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>38.11</u>	Water Column (ft): <u>24.14</u>	Well Volume (gal): <u>3.43</u>
Start Purge: <u>1158</u>	End Purge: <u>1228</u>	Top of Pump (ft): <u>31.11</u>	
Evacuation Method: Low-Flow		Volume Removed (<u>gal</u>): <u>4.5 L</u>	
Evacuation Equipment: <u>Peri</u>		Purging Personnel: <u>Zach Ryndar</u>	
AquaTroll serial #: <u>1283444</u>		Hach serial #: <u>260300083517</u>	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate mL/min
1218	Cloudy	Metallic	5.982	2236	0.083	20.34	105.7	188.0	13.97	150
1223	↓	↓	5.442	2256	0.073	20.24	100.3	178.0	14.83	↓
1228	↓	↓	6.002	2225	0.083	20.54	48.3	144.0	14.83	↓
Sampled @ 1228										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2Mg/L (whichever is greater; for DO < 0.5 mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3 L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MLD-INW-04 Sample Date/Time: 3.30.26/1228 Metals Date/Time: 3.30.26/1228
Duplicate: MLD-AP234-FD-5 Dup Date/Time: 3.30.26/1 Final Turbidity NTU: 144.0
Field Blank: MLD-AP234-FB-1 Blank Date/Time: 3.30.26/1228 Turbidity Date/Time: 3.30.26/1228

# Sample Bottles	Container	Preservative	Analyte(s)
1+1	250 mL pl	—	2320B All (Pace)
1+1	250 mL pl	—	300 O-L, F, SO ₄ , Br (Pace)
2+2	250 mL pl	HNO ₃	App III/IV / Major Ions (Pace)
2	250 mL pl	HNO ₃	App III/IV / Major Ions - Dissolved (Pace)
1	250 mL pl	—	2320B All, 300 O-L, F, SO ₄ , Br (EF)
2	250 mL pl	HNO ₃	App III/IV / Major Ions (EF)
2	250 mL pl	HNO ₃	App III/IV / Major Ions - Dissolved (EF)
			Fe2+ (field): <u>X</u> As (field): <u>X</u>

Signature: Zach Ryndar

wsp

PURGING AND SAMPLING FORM

Project # 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: DR-02	Date: 3/30/26	Water Level (ft): 13.58	Time (WL): 0927		
Physical Condition of Well: Good		Weather: 52 Cloudy 24.64			
Well Diameter (in): 2	Well Depth (ft): 38.27	Water Column (ft): 13.58	Well Volume (gal): 4.02		
Start Purge: 1005	End Purge: 1035	Top of Pump (ft): 31.27			
Evacuation Method: Low-Flow		Volume Removed (L): 3 L			
Evacuation Equipment: Perri		Purging Personnel: Zuma Rynders			
AquaTroll serial #: 1283499		Hach serial #: 200300083517			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate (mL/min)
1025	Cloudy	Metallic	7.120	13263	0.049	18.43	112.4	89.4	15.63	100
1030	↓	↓	7.108	15195	0.036	18.98	104.8	103.0	15.63	↓
1035	↓	↓	7.118	15055	0.037	19.02	99.0	65.3	16.02	↓
Sampled @ 1035										

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MLD-DR-02 Sample Date/Time: 03.30.26/1035 Metals Date/Time: 03.30.26/1035
Duplicate: MLD-AP234-FD-4 Dup Date/Time: 03.30.26/- Final Turbidity NTU: 65.3
Field Blank: MLD-AP234-EB-1 Blank Date/Time: 03.30.26/1055 Turbidity Date/Time: 03.30.26/1035

# Sample Bottles	Container	Preservative	Analyte(s)
1+1	250 mL pl	-	2320B Alk (Pace)
1+1	250 mL pl	-	300 O-Cl, F, SO ₄ , Br (Pace)
2+2	250 mL pl	HNO ₃	App III/IV / Major Ions (Pace)
2+2	250 mL pl	HNO ₃	App III/IV / Major Ions - Dissolved (Pace)
1	250 mL pl	-	2320B Alk, 300 O-Cl, F, SO ₄ , Br (LEF)
2	250 mL pl	HNO ₃	App III/IV / Major Ions (LEF)
2	250 mL pl	HNO ₃	App III/IV / Major Ions - Dissolved (LEF)
Fe2+ (field): X			As (field): X

Signature: _____

Zuma Rynders

wsp

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: MCD-DR-03		Date: 03/30/20	Water Level (ft): 14.01	Time (WL): 0910	
Physical Condition of Well: Good		Weather: Cloudy, SC			
Well Diameter (in): 2	Well Depth (ft): 38	Water Column (ft): 24	Well Volume (gal): 3.9		
Start Purge: 0955 1003	End Purge: 1040	Top of Pump (ft): 31			
Evacuation Method: Low-Flow		Volume Removed (gal): 7.4L			
Evacuation Equipment: Peristaltic Pump		Purging Personnel: J. Talaber			
AquaTroll serial #: 1283118		Hach serial #: 23110D0000009			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1030	CLR	none	5.28	601.7	221.3	19.06	175.6	5.17	16.17	200
1035	↓	↓	5.31	596.8	221.1	19.09	172.5	5.20	16.20	↓
1040	↓	↓	5.33	611.3	220.6	19.10	220.2	4.73	↓	↓
Sampled @ 1040										

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-DR-03 Sample Date/Time: 03/30/20 1040 Metals Date/Time: _____
Duplicate: MCD-AP234-FD-1 Dup Date/Time: 03/30/20 Final Turbidity NTU: 4.73
2nd Dup: MCD-AP234-FD-3 Blank Date/Time: 03/30/20 Turbidity Date/Time: 03/30/20 1040
Field Blank: MCD-AP234-FD-3

# Sample Bottles	Container	Preservative	Analyte(s)
2 + 2	250ml Plastic	HNO3	APP IV + Boron / Potassium
1 + 1	↓	none	300, D-F, Br
1 + 1	↓	none	2320B Alkalinity, Total Bicarb.
EF [2	↓	HNO3	6010D, 6020B, 7470A
1	↓	none	300-ORGEM-28D-F
		Fe2+ (field): _____	As (field): _____

Signature: Juliet Talaber

wsp

APPENDIX A

Field Data Forms
April 2026

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>MCD-INW-04</u>		Date: <u>4/14/26</u>		Water Level (ft): <u>14.65</u>	
Physical Condition of Well:		Weather: <u>SUNNY 77°F</u>			
Well Diameter (in): <u>2</u>		Well Depth (ft): <u>38.11</u>		Water Column (ft): <u>23.46</u>	
Start Purge: <u>1222</u>		End Purge: <u>1247</u>		Top of Pump (ft): <u>30</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (gal): <u>2.5 L</u>			
Evacuation Equipment: <u>PERISTALTIC</u>		Purging Personnel: <u>M. MANN</u>			
AquaTroll serial #: <u>1265037</u>		Hach serial #: <u>24080000330</u>			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate mL/min
1237	Cloudy	—	5.747	1483	0.139	21.46	247.2	34.2	15.13	100
1242	↓	—	5.765	1470	0.131	21.60	235.3	82.5	15.18	↓
1247	↓	—	5.772	1887	0.105	21.45	213.2	106	15.20	↓

Stabilization Criteria: pH $\pm$ 0.1 S.U, Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-04 Sample Date/Time: 4/14/26 1247 Metals Date/Time: 4/14/26 1247
Duplicate: MCD-AP234-ED-4 Dup Date/Time: 4/14/26 1247 Final Turbidity NTU: 106
Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 4/14/26

# Sample Bottles	Container	Preservative	Analyte(s)
2+1	250 mL pl	HNO ₃	App III/IV Metals + Baran, K
1+1	↓	—	Total Alk. + Bicarb
1	↓	—	F, Br
2+1	↓	HNO ₃	App III/IV Metals + Baran, K - Field Filter
			Fe2+ (field): — As (field): —

Signature: [Signature]

WSP

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: MCD-INW-03		Date: 4/14/26	Water Level (ft): 14.81	Time (WL): 1050	
Physical Condition of Well: GOOD		Weather: SUNNY	77°F		
Well Diameter (in): 2	Well Depth (ft): 38.81	Water Column (ft): 24	Well Volume (gal): 3.921		
Start Purge: 1052	End Purge:	Top of Pump (ft): 30			
Evacuation Method: Low-Flow		Volume Removed (gal): 4.875 L			
Evacuation Equipment: PERISTALTIC		Purging Personnel: M. MANN			
AquaTroll serial #: 1265037		Hach serial #: 24080D000330			

Purge Data/Field Parameters

[illegible]

Stabilization Criteria: pH $\pm$ 0.1 S.U, Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: <u>MCD-INW-03</u>	Sample Date/Time: <u>4/14/26 1122</u>	Metals Date/Time: <u>4/14/26 1122</u>
Duplicate: <u>MCD-AP234-FD-3</u>	Dup Date/Time: <u>4/14/26 1122</u>	Final Turbidity NTU: <u>2.73</u>
Field Blank: <u>MCD-AP234-EB-1</u>	Blank Date/Time: <u>4/14/26 1410</u>	Turbidity Date/Time: <u>4/14/26 1122</u>

[illegible]

Signature:

Project #: 31406440.02	Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1
Well ID #: DR-63	Date: 4/14/26	Water Level (ft): 14.68	Time (WL): 10:55
Physical Condition of Well: Good		Weather: 72 Over	
Well Diameter (in): 2	Well Depth (ft): 38	Water Column (ft): 23.32	Well Volume (gal): 3,800
Start Purge: 1054	End Purge: 1124	Top of Pump (ft): 31	
Evacuation Method: Low-Flow		Volume Removed (gal): 66	
Evacuation Equipment: Per		Purging Personnel: Zach Ryndek	
AquaTroll serial #: 1264944		Hach serial #: 23100500009	

Large Data/Field Parameters										
Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1114	Clear	None	5.370	605.8	0.301	21.50	169.2	5.15	16.52	200
1114			5.399	605.4	0.293	21.54	163.8	4.17	16.55	
1124			5.460	643.6	0.186	21.44	157.2	3.87	16.55	
			Sampled @ 1124							
	↓	↓								↓

Metals Date/Time: 4.14.26/1124
Final Turbidity NTU: 3.87
Turbidity Date/Time: 4.14.26/1124

Signature: Zachary Rynders

PURGING AND SAMPLING FORM

Project #: 31406440.02	Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1
Well ID #: DR-02	Date: 4/14/26	Water Level (ft): 14.84	Time (WL): 12:09
Physical Condition of Well:		Weather: 80 Clear	
Well Diameter (in): 2	Well Depth (ft): 38.27 ZCA	Water Column (ft): 23.43	Well Volume (gal): 3.82
Start Purge: 1224	End Purge: 1254 1254	Top of Pump (ft): 31	
Evacuation Method: Low-Flow		Volume Removed: 6 L	
Evacuation Equipment: Per:		Purging Personnel: Zach Rydner	
AquaTroll serial #: 1264994		Hach serial #: 23100 D00004	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate (mL/min)
1244	Clear	Metallic	6.702	9669	0.102	20.69	91.2	11.00	16.22	200
1244	↓	↓	6.681	9663	0.043	20.45	87.2	12.30	16.24	↓
1254	↓	↓	6.688	9780	0.097	21.02	86.4	11.40	16.24	↓
Sampled @ 1254										

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MLD-DR-02
Duplicate: MLD-AP234-FD-5
Field Blank: MLD-AP234-FB-1
Sample Date/Time: 4.14.26/1254
Dup Date/Time: 4.14.26/1254
Blank Date/Time: 4.14.26/1405
Metals Date/Time: 4.14.26/1254
Final Turbidity NTU: 11.40
Turbidity Date/Time: 4.14.26/1254

# Sample Bottles	Container	Preservative	Analyte(s)
1+1	250 mL pl	—	300 D-U Br (Purc)
1+1	↓	—	2320 B Alk + Bicarbonate (Purc)
2+2	↓	HNO ₃	App IV Metals + Boron, Potassium (Purc)
2	↓	HNO ₃	App IV Metals + Boron, Potassium (Field Filtered)
1	↓	HNO ₃	App IV Metals + Boron, Potassium (EF)
1	↓	HNO ₃	App IV Metals + Boron, Potassium - Field Filtered (EF)
1	↓	—	300 D-U Br, 2320 B Alk (EF)
			Fe2+ (field): X As (field): X

Signature: Zach Rydner

APPENDIX A

Field Data Forms
May 2026

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: DR-02		Date: 5/6/26		Water Level (ft): 15.34	
Physical Condition of Well: <u>Good</u>		Weather: <u>Partly Cloudy</u>			
Well Diameter (in): 2		Well Depth (ft): 38.27		Water Column (ft): 22.93	
Start Purge: 1202		End Purge: 1232		Well Volume (gal): 3.74	
Evacuation Method: Low-Flow		Top of Pump (ft): 31			
Evacuation Equipment: <u>Peristaltic</u>		Volume Removed (gal): 6.0 L			
AquaTroll serial #: 1265037		Purging Personnel: <u>Zach Rynder</u>			
		Hach serial #: 24066 24080D00330			

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1222	Clear	None	6.652	5656	0.112	21.03	292.4	12.90	16.35	200
1227	↓	↓	6.638	5683	0.107	20.91	398.9	6.48	↓	↓
1232	↓	↓	6.652	5666	0.106	20.83	285.7	6.59	↓	↓
Sampled @ 1232										

# Sample Bottles	Container	Preservative	Analyte(s)
2+2	250 mL pl	HNO ₃	App IV Metals + Baran, K
1+1	↓	—	300 O-F, Br
1+1		—	Total Alk, Bicarbonate
2		HNO ₃	App IV Metals, B, K (Field Filtered)
1		HNO ₃	App IV Metals + B, K
1		HNO ₃	App IV Metals + B, K (Field Filtered)
1		—	300 O-F, Br, total Alk + Bicarbonate
			Fe2+ (field): X As (field): X

PURGING AND SAMPLING FORM

Project # 31406440 02	Project Name/ Site Name SCS Plant McDonough		Page 1 of 1
Well ID # NR-03	Date 5/6/26	Water Level (ft) 15.25	Time (ML) 10:18
Physical Condition of Well Good		Weather Cloudy	
Well Diameter (in) 2	Well Depth (ft) 38	Water Column (ft) 22.75	Well Volume (gal) 3.71
Start Purge 1037	End Purge 1107	Top of Pump (ft) 31	
Evacuation Method Low-Flow		Volume Removed 4.5 6.0 L	
Evacuation Equipment Peristaltic		Purging Personnel Zach Ryndor	
AquaTroll serial #: 1265037		Hach serial #: 24080D000330	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S U)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R BTOC)	Pumping Rate
1057	Clear	None	5.162	608.8	0.142	19.70	222.0	6.42	16.84	200
1102	↓	↓	5.196	611.9	0.131	19.64	223.9	7.38	16.87	↓
1107	↓	↓	5.214	610.4	0.127	19.62	218.7	4.89	16.84	↓
Sampling @ 1107										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2Mg/L (whichever is greater; for DO $< 0.5\text{mg/L}$, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume $\geq 3\text{L}$ purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MLD-DR-03

Sample Date/Time: 5/6/26-1107

Metals Date/Time: 5/6/26 - 1107

Duplicate: MCD-AP234-FD-1

Dup Date/Time: 5/6/26 - 1

Final Turbidity NTU: 4.89

~~Field Blank~~: MLD-AP234-FD-2

Blank Date/Time: 5/6/26 - 116)

Turbidity Date/Time: 5/6/26-1107

# Sample Bottles	Container	Preservative	Analyte(s)
2 + 2	250 mL pl	—	All, 300 D-F, Br, Bicarb (Pace)
2 + 2	250 mL pl	HNO ₃	App IV Metals + Boron, Potassium (Pace)
1	250 mL pl	—	All, 300 D-F, Br, Bicarb (EF)
1	250 mL pl	HNO ₃	App IV Metals + Boron, Potassium (EF)
			Fe ²⁺ (field): X As (field): X

Signature:

Zachary Rynda

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PURGING AND SAMPLING FORM

Project # 31406440 018; 31406440 022; 31406440 035		Project Name/Site Name: SCS Plant Scherer SAGW02 2026		Page: ____ of ____
Well ID #: <u>1NW-03</u>	Date: <u>5/6/26</u>	Water Level (ft): <u>16.0</u>	Time (WL) <u>1005</u>	
Physical Condition of Well: <u>good</u>		Weather: <u>cloudy, 65°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>30.81</u>	Water Column (ft): <u>27.81</u>	Well Volume (gal): <u>3.72</u>	
Start Purge: <u>1022</u>	End Purge: <u>1052</u>	Top of Pump (ft): <u>30</u>		
Evacuation Method: Low-Flow		Volume Removed (L): <u>3.75</u>		
Evacuation Equipment: <u>peristaltic</u>		Purging Personnel: <u>D. Blomfield</u>		
AquaTroll serial #: <u>966021</u>		Hach serial #: <u>240800000330</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Fe2+ (mg/L)	Pumping Rate (mL/min)
1042	CLR	no	7.322	25175	0.188	20.72	2128	1.88	17.42		125
1047	↓	↓	7.303	25302	0.180	20.79	2120	2.42	↓		↓
1052	↓	↓	7.302	25524	0.196	20.59	21.1	3.52	↓		
sampled @ 1052											

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-1NW-03 Sample Date/Time: 5/6/26 1052 Metals Date/Time: 5/6/26
Duplicate: MCD-A1234-FD-3 Dup Date/Time: 5/6/26 1052 Final Turbidity NTU: 3.52
Field Blank: MCD-A1234-FB-1 Blank Date/Time: 5/6/26 1100 Turbidity Date/Time: 5/6/26

# Sample Bottles	Container	Preservative	Analyte(s)
2+1	HT 250mL	1NW03	APP III/IV Metals + Barium K
1+1	250mL P1	—	Total Alk + DICO ₂
1	250mL P1	—	F, Br
N/A	N/A	none	Fe 2 field test: —

Signature: _____

[Handwritten Signature]

1151

PURGING AND SAMPLING FORM

Project #: 31406440.018; 31406440.022; 31406440.035		Project Name/Site Name: SCS Plant Scherer SAGW02 2026		Page: ____ of ____
Well ID #: <u>1NW-04</u>	Date: <u>5/6/26</u>	Water Level (ft): <u>15.29</u>	Time (WL): <u>1120</u>	
Physical Condition of Well: <u>good</u>		Weather: <u>sunny 75°F</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>38.11</u>	Water Column (ft): <u>22.82</u>	Well Volume (gal): <u>3.72</u>	
Start Purge: <u>1154</u>	End Purge: <u>1224</u>	Top of Pump (ft): <u>30</u>		
Evacuation Method: Low-Flow		Volume Removed (L): <u>3.75</u>		
Evacuation Equipment: <u>peristaltic</u>		Purging Personnel: <u>D. Bloomfield</u>		
AquaTroll serial #: <u>966021</u>		Hach serial #: <u>23110D0009</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Fe2+ (mg/L)	Pumping Rate (mL/min)
1214	clr	no	5.792	2391	0.120	22.15	157.9	34.0	15.89		125
1219	↓	↓	5.788	2375	0.124	22.32	156.5	27.5	↓		↓
1224	↓	↓	5.802	2363	0.122	21.78	150.2	28.2	↓		↓
					Sampled @ 1224						

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-1NW-04 Sample Date/Time: 5/6/26 1224 Metals Date/Time: 5/6/26 1224
 Duplicate: MCD-AP234-FD-4 Dup Date/Time: 5/6/26 1224 Final Turbidity NTU: _____
 Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 5/6/26 1224

# Sample Bottles	Container	Preservative	Analyte(s)
2+1	250mL P1	HNO3	APP III/IV Metals & Boron, K
1+1	↓	—	Total AlK + Boron
1	↓	—	FB
2+1	↓	HNO3	APP III/IV Metals + Boron/K - FF
N/A	N/A	none	Fe 2 field test: —

Signature:

[Handwritten Signature]

PURGING AND SAMPLING FORM

Project #: 31406440.02	Project Name/Site Name: SCS Plant McDonough 15.71		Page: 1 of 1
Well ID #: MCD-DR-02	Date: 5.27.26	Water Level (ft): 15.65	Time (WL): 1002
Physical Condition of Well: good		Weather: 74 Cloudy	
Well Diameter (in): 2	Well Depth (ft): 38.27	Water Column (ft): 22.56	Well Volume (gal): 3.677
Start Purge: 1039	End Purge: 1119	Top of Pump (ft): 30	
Evacuation Method: Low-Flow		Volume Removed (gal): 8 L	
Evacuation Equipment: peristaltic		Purging Personnel: Z-west	
AquaTroll serial #: 1283133		Hach serial #: 23060 D000240	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1109	white/cloudy	no	7.302	35,475	0.045	23.31	263.6	147.0	17.02	200
1114	↓	↓	7.301	35,655	0.051	23.32	257.9	158.0	17.04	↓
1119	↓	↓	7.298	28,126	0.051	23.45	179.8	136.0	17.04	↓
Sampled @ 1119					END					

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume $\geq 3L$ purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: **MCD-DR-02** Sample Date/Time: **5.27.26/1119** Metals Date/Time: **5.27.26/1119**
 Duplicate: **—** Dup Date/Time: **—** Final Turbidity NTU: **136**
 Field Blank: **MCD-10234-FB-1** Blank Date/Time: **5.27.26/1130** Turbidity Date/Time: **5.27.26/1119**
2 field filtered metals bottles

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500 ml	—	TDS
1 + 1	250 ml	—	300.0 F, SO ₄ , Cl
1 + 1	250 ml	—	Alk + Bicarb
2 + 2 [+2 (FF)]	250 ml	HNO ₃	App III/IV metals + major ions
1 + 1	125 ml	NaOH, Zn Ac	Sulfide water
Fe2+ (field): —		As (field): —	

Signature: **Z. West**

- *whitecloudy water
- *high sp. con.
- *Air bubbles

*"sticky" water - hard to get accurate WL
 *hard to get flow up

wsp

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>MCO-DR-03</u>		Date: <u>5.27.26</u>		Water Level (ft): <u>15.26</u>	
Physical Condition of Well: <u>good</u>		Weather: <u>77 cloudy</u>		Time (WL): <u>1237</u>	
Well Diameter (in): 2		Well Depth (ft): <u>38</u>		Water Column (ft): <u>22.74</u>	
Start Purge: <u>1247</u>		End Purge: <u>1317</u>		Well Volume (gal): <u>3.7</u>	
Evacuation Method: Low-Flow		Volume Removed (gal): <u>6 L</u>		Top of Pump (ft): <u>33</u>	
Evacuation Equipment: <u>Peristaltic</u>		Purging Personnel: <u>Z. West</u>		Hach serial #: <u>23060000290</u>	
AquaTroll serial #: <u>1283133</u>					

Purge Data/Field Parameters

[illegible]

Stabilization Criteria: pH $\pm$ 0.1 S.U, Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO $<$ 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-DR-03

Duplicate: _____

Field Blank: _____

Sample Date/Time: 5.27.26/1317

Dup Date/Time: _____

Blank Date/Time: _____

Metals Date/Time: 5.27.26/1317

Final Turbidity NTU: 1.80

Turbidity Date/Time: 5.27.26/1317

# Sample Bottles	Container	Preservative	Analyte(s)
1	500 ml	—	TDS
1	250 ml	—	300.0 F, SO ₄ , Cl
1	250 ml	—	ALK - Bicarb
2	250 ml	HNO ₃	App III / IV Metals & major ions
1	125 ml	NaOH, Zn Ac	Sulfide w/inter
			Fe ²⁺ (field): — As (field): —

Signature:

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: MCD-INW-03		Date: 05/27/26	Water Level (ft): 16.23	Time (WL): 0945	
Physical Condition of Well: Good			Weather: Cloudy		
Well Diameter (in): 2	Well Depth (ft): 38.81	Water Column (ft): 22.58	Well Volume (gal): 3.68		
Start Purge: 1017	End Purge: 1105	Top of Pump (ft): 31.31			
Evacuation Method: Low-Flow			Volume Removed (gal): 9.0L		
Evacuation Equipment: Peristaltic Pump			Purging Personnel: J. Talaber		
AquaTroll serial #: 1283497			Hach serial #: 231000000368		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1055	CLK	Slight Smell	7.40	39,684	0.170	22.92	209.1	0.87	17.89	200
1100	↓	Slight Smell	7.41	41,509	0.190	23.05	225.0	0.79	↓	↓
1105	↓	Slight Smell	7.42	41,922	0.225	23.18	208.7	0.89	↓	↓
Sampled @ 1105										

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-03 Sample Date/Time: 05/27/26 1105 Metals Date/Time: _____
Duplicate: MCD-AP234-F01 Dup Date/Time: 05/27/26 Final Turbidity NTU: 0.89
Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 05/27/26 1105

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500mL Plastic	none	2540C, TDS
2 + 2	250mL Plastic	HNO3	APP III / N Metals + Major Ions
1 + 1	250mL Plastic	none	Total Alkalinity + Bicarb
1 + 1	250mL Plastic	none	300.0-F, Br, SO4, Cl
1 + 1	125mL Plastic	NaOH, ZnAc	4500S2D Sulfide water
Fe2+ (field): No			As (field): No

Signature: J. Talaber

WSP

PURGING AND SAMPLING FORM

Project #: 31406440.MCD23		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #MCD-1NW-04		Date: 05/27/2020	Water Level (ft): 14.43	Time (WL): 1210	
Physical Condition of Well: Good		Weather: Cloudy, Sunny, 80			
Well Diameter (in): 2	Well Depth (ft): 38.11	Water Column (ft): 23.68	Well Volume (gal): 3.86		
Start Purge: 1248	End Purge: 1429	Top of Pump (ft): 30			
Evacuation Method: Low-Flow		Volume Removed (gal): 22.7 L			
Evacuation Equipment: Peristaltic Pump		Purging Personnel: J. Talaber			
AquaTroll serial #: 1283497		Hach serial #: 23100D000368			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1419	CLR	None	6.38	6301	0.053	22.87	102.6	37.60	16.45	225
1424	↓	↓	6.39	6373	0.053	22.60	97.1	28.50	↓	↓
1429	↓	↓	6.40	6447	0.051	22.61	131.2	21.80	↓	↓
Sampled @ 1429										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description MCD-1NW-04

Sample ID: ~~MCD-AP234-EF~~ JT Sample Date/Time: 05/27/2020 1429 Metals Date/Time: _____
Duplicate: _____ Dup Date/Time: _____ Final Turbidity NTU: 21.80
Field Blank: MCD-AP234-EB-1 Blank Date/Time: 05/27/2020 1440 Turbidity Date/Time: 05/27/2020 1429

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500mL Plastic	none	2540C TDS
2 + 2	250mL Plastic	none	JCT
2 + 2	250mL Plastic	HNO3	APP III/IV Metals + Major Ions
1 + 1	250mL Plastic	none	Total Alkalinity + Bicarb
1 + 1	125mL Plastic	NaOH, ZnAc	4500 S2D Sulfide water
1 + 1	250mL Plastic	none	300.0-F, Br, SO4, Cl
2	250mL Plastic	HNO3	APP III/IV Metals + Major Ions
Fe2+ (field): No			

Signature: J. Talaber

2 FF bottles

WSP

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>MCD-11W-05</u>		Date: <u>5.27.26</u>		Water Level (ft): <u>15.66</u>	
Physical Condition of Well: <u>good</u>		Weather: <u>80 sunny</u>			
Well Diameter (in): 2		Well Depth (ft): <u>35.76</u>		Water Column (ft): <u>20.1</u>	
Well Volume (gal): <u>3.27</u>		Start Purge: <u>1455</u>		End Purge: <u>1515</u>	
Top of Pump (ft): <u>30.7</u>		Evacuation Method: Low-Flow			
Volume Removed (gal): <u>4 L</u>		Evacuation Equipment: <u>peristaltic pump</u>			
Purging Personnel: <u>2. west</u>		AquaTroll serial #: <u>1283133</u>			
Hach serial #: <u>23060D000290</u>					

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1455	clr	no	7.916	68,555	1.070	28.27	89.1	16.8	15.66	200
1500	↓	↓	7.881	73,115	0.523	24.54	141.8	7.67	16.51	↓
1505	↓	↓	7.866	73,310	0.468	24.62	151.4	6.28	16.64	↓
1510	↓	↓	7.856	74,062	0.430	24.57	216.0	5.82	16.66	↓
1515	↓	↓	7.865	73,456	0.434	24.49	161.8	4.74	16.68	↓
No Sample Collected										

Metals Date/Time: _____
Final Turbidity NTU: _____
Turbidity Date/Time: _____

[illegible]

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APPENDIX A

Field Data Forms
June 2026

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: MCD-INW-03		Date: 06/03/20	Water Level (ft): 15.23	Time (WL): 1100	
Physical Condition of Well: Good		Weather: Sunny, 67°			
Well Diameter (in): 2	Well Depth (ft): 38.8	Water Column (ft): 15.58	Well Volume (gal): 2.54		
Start Purge: 1138	End Purge: 1208	Top of Pump (ft): 30			
Evacuation Method: Low-Flow		Volume Removed (gal): 6.0L			
Evacuation Equipment: Peristaltic Pump		Purging Personnel: J. Talaber			
AquaTroll serial #: 16803000		Hach serial #: 210300000000			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1158	CLR	none	7.47	47,263	0.248	18.42	153.8	2.44	17.30	200
1203	↓	↓	7.49	49,469	0.241	18.50	168.2	2.18	↓	↓
1208	↓	↓	7.48	46,912	0.244	18.54	174.3	2.78	↓	↓
Sampled @ 1208										

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-03 Sample Date/Time: 06/03/20 1208 Metals Date/Time: _____
Duplicate: MCD-AP234-FD-1 Dup Date/Time: 06/03/20 Final Turbidity NTU: 2.78
Field Blank: _____ Blank Date/Time: _____ Turbidity Date/Time: 06/03/20 1208

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500mL Plastic	none	TDS
1 + 1	250mL Plastic	none	300.0-F, Br, SO ₄ , Cl
1 + 1	↓	none	232.0B Alk (carb/bicarb/total)
2 + 2	↓	HNO ₃	APP III/IV Metals + Major Ions
1 + 1	125mL Plastic	NaOH, Zn Ac	4500SD Sulfide water
		Fe2+ (field): NO	As (field): NO

Signature: _____

Juliet Talaber

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: 1 of 1	
Well ID #: MCD-INW-04		Date: 06/03/20		Water Level (ft): 14.63	
Physical Condition of Well: Good		Weather: Sunny, 75		Time (WL): 1250	
Well Diameter (in): 2		Well Depth (ft): 38.11		Water Column (ft): 23.48	
Start Purge: 1310		End Purge: 1455		Well Volume (gal): 382	
Evacuation Method: Low-Flow		Top of Pump (ft): 30		Volume Removed (gal): 6.5L 21L	
Evacuation Equipment: Peristaltic Pump		Purging Personnel: J. Talaber			
AquaTroll serial #: 108030C6		Hach serial #: 21030D000600			

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1445	CLR	none	6.20	4257	0.187	17.53	100.7	10.40	15.55	200
1450	↓	↓	6.21	4386	0.181	17.43	99.4	10.10	15.55	↓
1455	↓	↓	6.22	4423	0.181	17.50	98.7	9.17	15.55	↓
Sampled @ 1455										

Stabilization Criteria: pH ± 0.1 S.U., Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3 L purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-INW-04 Sample Date/Time: 06/03/20 1455 Metals Date/Time: _____
Duplicate: ~~MCD~~ Dup Date/Time: _____ Final Turbidity NTU: 9.17
Field Blank: MCD-AP234-EB-1 Blank Date/Time: 06/03/20 1510 Turbidity Date/Time: 06/03/20 1455

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500ml Plastic	none	TDS
1 + 1	250ml Plastic	none	300.0 F, Br, SO ₄ , Cl
1 + 1	↓	none	2320B Alk (carb/bicarb/total)
2 + 2	↓	HNO ₃	APP III IV Metals + Major Ions
1 + 1	125ml Plastic	NaOH, Zn Ac	4500S2D Sulfide water
FF → 2	250ml Plastic	HNO ₃	APP III IV Metals + Major Ions FF
			Fe2+ (field): NO As (field): NO

Signature: J. Talaber

WSP

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>MCO-DR-02</u>		Date: <u>6.3.26</u>	Water Level (ft): <u>15.13</u>	Time (WL): <u>1056</u>	
Physical Condition of Well: <u>good</u>			Weather: <u>68 Sunny</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>38.27</u>	Water Column (ft): <u>23.14</u>	Well Volume (gal): <u>3.77</u>		
Start Purge: <u>1114</u>	End Purge: <u>1214</u>	Top of Pump (ft): <u>31</u>			
Evacuation Method: Low-Flow			Volume Removed (gal): <u>12 L</u>		
Evacuation Equipment: <u>Peristaltic</u>			Purging Personnel: <u>Z. West</u>		
AquaTroll serial #: <u>10802817</u>			Hach serial #: <u>230660 000 290</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1204	lightly white	no	7.281	38,000	0.121	23.71	181.0	32.00	16.03	260
1204	↓	↓	7.282	37,923	0.120	23.97	181.6	34.30	↓	↓
1214	↓	↓	7.281	37,420	0.108	24.02	143.1	38.4	↓	↓
Sampled @ 1214										
(ZW)										

Stabilization Criteria: pH $\pm$ 0.1 S.U., Conductivity $\pm$ 5%, Dissolved Oxygen $\pm$ 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity $\leq$ 5 NTU; Purge volume $\geq$ 3L purge water, water level $\leq$ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCO-DR-02 Sample Date/Time: 6.3.26/1214 Metals Date/Time: 6.3.26/1214
Duplicate: - Dup Date/Time: - Final Turbidity NTU: 38.4
Field Blank: MCO-AP234-FB-1 Blank Date/Time: 6.3.26/1235 Turbidity Date/Time: 6.3.26/1214
+ 2 field filtered metals bottles

# Sample Bottles	Container	Preservative	Analyte(s)
1 + 1	500 ml	-	TDS
1 + 1	250 ml	-	300.0 f, SO ₄ , Cl
1 + 1	250 ml	-	Alk - Bicarb
2+2 [2] (FF)	250 ml	HNO ₃	APP III/IV metals + major ions
1 + 1	125 ml	NaOH, Zn Ac	Sulfide water
Fe2+ (field): <u>-</u>		As (field): <u>-</u>	

Signature: Z. West

*increasing turb. → as injectate is pulled into well by purging
*inhibited flow due to air in tubing
↳ not from faulty tubing or setup.

wsp

PURGING AND SAMPLING FORM

Project #: 31406440.02		Project Name/Site Name: SCS Plant McDonough		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>MCD-DR-03</u>		Date: <u>6.3.26</u>	Water Level (ft): <u>14.81</u>	Time (WL): <u>1310</u>	
Physical Condition of Well: <u>good</u>			Weather: <u>74 sunny</u>		
Well Diameter (in): <u>2</u>		Well Depth (ft): <u>38</u>	Water Column (ft): <u>23.19</u>	Well Volume (gal): <u>3.77</u>	
Start Purge: <u>1322</u>		End Purge: <u>1352</u>	Top of Pump (ft): <u>31</u>		
Evacuation Method: <u>Low-Flow</u>			Volume Removed (gal): <u>6 L</u>		
Evacuation Equipment: <u>peristaltic</u>			Purging Personnel: <u>Z. West</u>		
AquaTroll serial #: <u>10802817</u>			Hach serial #: <u>23060000290</u>		

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
1342	Clr	NO	5.404	701.9	0.746	22.97	202.2	6.12	16.35	200
1347	↓	↓	5.418	700.4	0.555	23.22	202.2	5.72	16.36	↓
1352	↓	↓	5.427	698.2	0.442	23.36	204.4	4.79	16.36	↓
Sampled @ 1352										
				<u>(Zw)</u>						

Stabilization Criteria: pH ± 0.1 S.U, Conductivity $\pm 5\%$, Dissolved Oxygen $\pm 10\%$ or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume $\geq 3L$ purge water, water level ≤ 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: MCD-DR-03 Sample Date/Time: 6.3.26/1352 Metals Date/Time: 6.3.26/1352
Duplicate: — Dup Date/Time: — Final Turbidity NTU: 4.79
Field Blank: — Blank Date/Time: — Turbidity Date/Time: 6.3.26/1352

# Sample Bottles	Container	Preservative	Analyte(s)
1	500 ml	—	TDS
1	250 ml	—	300.0 F, SO ₄ , Cl
1	250 ml	—	Alk - Bicarb
2	250 ml	HNO ₃	APP III/IV metals & major ions
1	125 ml	NaOH, Zn Ac	Sulfide
			Fe2+ (field): <u>—</u> As (field): <u>—</u>

Signature: Z. West

WSP

APPENDIX B

Laboratory Reports

APPENDIX B

**Analytical Results
February 2026**



February 18, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LA000356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172

Alaska Dept. of Energy Conservation, Cert# 20-002

California ELAP, cert# 3049

DoD, DoD QSM V5.4, cert# I.2224

DOE, DoD/DOE QSM V5.4, cert# I.2224.01

Florida, Dept. of Health, cert# E87653-70

Georgia, Env. Protection Division, cert# E87653

Illinois, EPA NELAP, cert# 2000552024-9

Kansas, Dept. of Health and Environment, cert# E-10417

Kentucky, Dept. for Env. Protection, UST, cert# 103582

Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125

North Carolina, DEQ, Water Resources, cert# 329

New Jersey, Dept. of Env. Protection, cert# NLC 240005

Oklahoma, Dept. of Env. Quality, cert# 2023-175

Oregon, ELAP, cert# 4181-006

Pennsylvania, Dept. of Env. Protection, cert# 003

South Carolina, Dept. of Env. Services, cert# 32010001

Texas, Commission on Env. Quality, cert# TX-C24-00083

Virginia, Dept. of General Services, cert# 13080

Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: INW-05 McDonough Pilot Study

Pace Project No.: 92841739

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92841739001	MCD-INW-05	Water	02/02/26 13:00	02/02/26 17:03

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SAMPLE ANALYTE COUNT

Project: INW-05 McDonough Pilot Study

Pace Project No.: 92841739

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92841739001	MCD-INW-05	EPA 6020B	KHT	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	CMW1	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	4	PASI-A
		EPA 6020B	BW, CBP	18	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

Sample: MCD-INW-05		Lab ID: 92841739001		Collected: 02/02/26 13:00		Received: 02/02/26 17:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.0101	mg/L	0.00200	0.000600	1	02/05/26 14:46	02/06/26 11:18	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	113	mg/L	5.0	5.0	1		02/10/26 15:31		
Alkalinity, Total as CaCO ₃	113	mg/L	5.0	5.0	1		02/10/26 15:31		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	1190	mg/L	50.0	50.0	1		02/04/26 18:03		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		02/10/26 21:26	18496-25-8	H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	1.7	mg/L	0.10	0.060	1		02/04/26 04:32	24959-67-9	
Chloride	11.2	mg/L	1.0	0.60	1		02/04/26 04:32	16887-00-6	
Fluoride	1.3	mg/L	0.10	0.050	1		02/04/26 04:32	16984-48-8	
Sulfate	539	mg/L	13.0	6.5	13		02/04/26 16:44	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.050	0.011	25	02/04/26 13:01	02/13/26 18:02	7440-36-0	1g
Arsenic	0.025	mg/L	0.0020	0.00041	1	02/04/26 13:01	02/13/26 03:05	7440-38-2	
Barium	0.089	mg/L	0.0050	0.00056	1	02/04/26 13:01	02/13/26 03:05	7440-39-3	
Beryllium	0.0058	mg/L	0.00040	0.00015	1	02/04/26 13:01	02/13/26 03:05	7440-41-7	
Boron	3.5	mg/L	1.0	0.18	25	02/04/26 13:01	02/13/26 18:02	7440-42-8	
Cadmium	0.0019	mg/L	0.00050	0.00010	1	02/04/26 13:01	02/13/26 03:05	7440-43-9	
Calcium	78.9	mg/L	10.0	2.5	25	02/04/26 13:01	02/13/26 18:02	7440-70-2	
Chromium	0.00062J	mg/L	0.0050	0.00024	1	02/04/26 13:01	02/13/26 03:05	7440-47-3	
Cobalt	1.3	mg/L	0.12	0.0030	25	02/04/26 13:01	02/13/26 18:02	7440-48-4	
Iron	0.28	mg/L	0.040	0.016	1	02/04/26 13:01	02/13/26 03:05	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	02/04/26 13:01	02/13/26 03:05	7439-92-1	
Magnesium	46.4	mg/L	1.2	0.61	25	02/04/26 13:01	02/13/26 18:02	7439-95-4	
Manganese	66.5	mg/L	2.5	0.63	500	02/04/26 13:01	02/13/26 18:30	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	02/04/26 13:01	02/13/26 03:05	7439-98-7	
Potassium	248	mg/L	10.0	3.3	25	02/04/26 13:01	02/13/26 18:02	7440-09-7	
Selenium	0.050	mg/L	0.0050	0.00050	1	02/04/26 13:01	02/13/26 03:05	7782-49-2	
Sodium	28.9	mg/L	10.0	2.1	25	02/04/26 13:01	02/13/26 18:02	7440-23-5	
Thallium	0.0037	mg/L	0.00050	0.00017	1	02/04/26 13:01	02/13/26 03:05	7440-28-0	

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ANALYTICAL RESULTS

Project: INW-05 McDonough Pilot Study

Pace Project No.: 92841739

Sample: MCD-INW-05		Lab ID: 92841739001		Collected: 02/02/26 13:00		Received: 02/02/26 17:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	02/04/26 16:29	02/06/26 09:43	7439-97-6	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study

Pace Project No.: 92841739

QC Batch: 2687480

Analysis Method: EPA 6020B

QC Batch Method: 3015

Analysis Description: Metals (ICPMS) 6020B

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92841739001

METHOD BLANK: R4332740-1

Matrix: Water

Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	02/06/26 10:14	

LABORATORY CONTROL SAMPLE: R4332740-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0496	99.3	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4332740-4 R4332740-5

Parameter	Units	L1940657-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.125	0.0500	0.0500	0.170	0.171	90.9	91.7	75.0-125	0.210	20	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

QC Batch: 989392 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92841739001

METHOD BLANK: 5084971 Matrix: Water
Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	02/10/26 15:16	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	02/10/26 15:16	

LABORATORY CONTROL SAMPLE: 5084972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	49.4	99	80-120	

LABORATORY CONTROL SAMPLE: 5084973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	49.3	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5084974 5084975

Parameter	Units	92841739001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	113	50	50	164	165	102	103	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5084976 5084977

Parameter	Units	92842056040 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	980	50	50	1020	1020	81	81	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5084978 5084979

Parameter	Units	92842056041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	550	50	50	599	596	98	92	80-120	1	25	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study

Pace Project No.: 92841739

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5084982 5084983												
Parameter	Units	92842056021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	373	50	50	421	416	96	86	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5084984 5084985												
Parameter	Units	92842056022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	771	50	50	821	821	101	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5084986 5084987												
Parameter	Units	92842056026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	342	50	50	388	391	94	99	80-120	1	25	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

QC Batch:	988541	Analysis Method:	SM 2540C-2020
QC Batch Method:	SM 2540C-2020	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92841739001

METHOD BLANK: 5080751 Matrix: Water
Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/26 18:01	

LABORATORY CONTROL SAMPLE: 5080752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 5080753

Parameter	Units	92841328012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	515	512	1	25	

SAMPLE DUPLICATE: 5080754

Parameter	Units	92841736005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

QC Batch:	989822	Analysis Method:	SM 4500-S2D-2021
QC Batch Method:	SM 4500-S2D-2021	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92841739001

METHOD BLANK: 5087099 Matrix: Water
Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/10/26 21:22	

LABORATORY CONTROL SAMPLE: 5087100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5087101 5087102

Parameter	Units	92842578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.58	0.58	116	115	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5087103 5087104

Parameter	Units	92842545002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.62	0.64	119	123	80-120	3	10 M1	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

QC Batch: 988454 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92841739001

METHOD BLANK: 5080541 Matrix: Water
Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	02/03/26 21:30	
Chloride	mg/L	ND	1.0	0.60	02/03/26 21:30	
Fluoride	mg/L	ND	0.10	0.050	02/03/26 21:30	
Sulfate	mg/L	ND	1.0	0.50	02/03/26 21:30	

LABORATORY CONTROL SAMPLE: 5080542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.4	98	90-110	
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5080543 5080544

Parameter	Units	92841736001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	0.11	2.5	2.5	2.6	2.7	100	104	90-110	4	10	
Chloride	mg/L	7.6	50	50	58.5	60.1	102	105	90-110	3	10	
Fluoride	mg/L	0.29	2.5	2.5	3.0	3.0	108	110	90-110	2	10	
Sulfate	mg/L	6.1	50	50	58.3	60.0	104	108	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5080545 5080546

Parameter	Units	92841680002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.2	2.7	87	105	90-110	18	10	M1,R1
Chloride	mg/L	2.0	50	50	51.5	56.1	99	108	90-110	9	10	
Fluoride	mg/L	0.091J	2.5	2.5	2.4	2.7	93	104	90-110	11	10	R1
Sulfate	mg/L	10.3	50	50	60.9	62.1	101	104	90-110	2	10	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

QC Batch:	988599	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92841739001

METHOD BLANK: 5080984 Matrix: Water

Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	02/12/26 21:50	
Arsenic	mg/L	ND	0.0020	0.00041	02/12/26 21:50	
Barium	mg/L	ND	0.0050	0.00056	02/12/26 21:50	
Beryllium	mg/L	ND	0.00040	0.00015	02/12/26 21:50	
Boron	mg/L	ND	0.040	0.0073	02/12/26 21:50	
Cadmium	mg/L	ND	0.00050	0.00010	02/12/26 21:50	
Calcium	mg/L	ND	0.40	0.10	02/12/26 21:50	
Chromium	mg/L	ND	0.0050	0.00024	02/12/26 21:50	
Cobalt	mg/L	ND	0.0050	0.00012	02/12/26 21:50	
Iron	mg/L	ND	0.040	0.016	02/12/26 21:50	
Lead	mg/L	ND	0.0010	0.00027	02/12/26 21:50	
Magnesium	mg/L	ND	0.050	0.024	02/12/26 21:50	
Manganese	mg/L	ND	0.0050	0.0013	02/13/26 12:17	
Molybdenum	mg/L	ND	0.010	0.0020	02/12/26 21:50	
Potassium	mg/L	ND	0.40	0.13	02/12/26 21:50	
Selenium	mg/L	ND	0.0050	0.00050	02/12/26 21:50	
Sodium	mg/L	ND	0.40	0.083	02/12/26 21:50	
Thallium	mg/L	ND	0.00050	0.00017	02/12/26 21:50	

LABORATORY CONTROL SAMPLE: 5080985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Calcium	mg/L	1	1.1	112	80-120	
Chromium	mg/L	0.1	0.11	111	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Iron	mg/L	1	0.98	98	80-120	
Lead	mg/L	0.1	0.11	105	80-120	
Magnesium	mg/L	1	1.1	105	80-120	
Manganese	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Potassium	mg/L	1	0.97	97	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Sodium	mg/L	1	1.0	104	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

LABORATORY CONTROL SAMPLE: 5080985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5080986 5080987

Parameter	Units	92841736002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	113	111	75-125	2	20	
Arsenic	mg/L	0.011	0.1	0.1	0.11	0.11	103	99	75-125	3	20	
Barium	mg/L	0.066	0.1	0.1	0.18	0.17	109	105	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Boron	mg/L	0.11	0.1	0.1	0.21	0.21	103	102	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	108	105	75-125	3	20	
Calcium	mg/L	9.2	1	1	10.5	10.4	123	115	75-125	1	20	
Chromium	mg/L	0.00036J	0.1	0.1	0.11	0.11	111	108	75-125	3	20	
Cobalt	mg/L	0.00018J	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Iron	mg/L	11.1	1	1	12.0	12.1	85	95	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20	
Magnesium	mg/L	3.6	1	1	4.5	4.5	95	92	75-125	1	20	
Manganese	mg/L	1.3	0.1	0.1	1.4	1.4	75	54	75-125	2	20 M1	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20	
Potassium	mg/L	1.8	1	1	2.8	2.8	94	97	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	109	107	75-125	2	20	
Sodium	mg/L	5.9	1	1	6.8	6.9	98	101	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.11	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

QC Batch:	988670	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92841739001

METHOD BLANK: 5081369 Matrix: Water
Associated Lab Samples: 92841739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	02/04/26 22:05	

LABORATORY CONTROL SAMPLE: 5081370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0024	118	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5082059 5082060

Parameter	Units	92841736004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0021	0.0018	100	86	80-120	15	20	

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QUALIFIERS

Project: INW-05 McDonough Pilot Study
Pace Project No.: 92841739

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92841739

- [1] WSP
- [2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

- 1g The result for this analyte is reported from a diluted analysis due to an internal standard failure.
- H1 Analysis conducted outside the EPA method holding time.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INW-05 McDonough Pilot Study

Pace Project No.: 92841739

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92841739001	MCD-INW-05	3015	2687480	EPA 6020B	2687480
92841739001	MCD-INW-05	SM 2320B-2021	989392		
92841739001	MCD-INW-05	SM 2540C-2020	988541		
92841739001	MCD-INW-05	SM 4500-S2D-2021	989822		
92841739001	MCD-INW-05	EPA 300.0 Rev 2.1 1993	988454		
92841739001	MCD-INW-05	EPA 3005A	988599	EPA 6020B	990601
92841739001	MCD-INW-05	EPA 7470A	988670	EPA 7470A	988819

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒Sample Condition
Upon Receipt

Client Name:

Georgia Tower

Project #

WO#: 92841739

Courier:

☐ Commercial☐ Fed Ex☐ Pace☐ UPS☐ USPS☐ Other: _____☒ Client

Custody Seal Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☐ No☒ N/ADate/Initials Person Examining Contents: *2/2/26*

Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Thermometer:

☒ IR Gun ID:*230*

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

21.2

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

*2.2*USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

		Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	8.
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>		
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92841739

PM: BV

Due Date: 02/17/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-W/de-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																														
1		21					22	1																						
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



April 17, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LA000356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172

Alaska Dept. of Energy Conservation, Cert# 20-002

California ELAP, cert# 3049

DoD, DoD QSM V5.4, cert# I.2224

DOE, DoD/DOE QSM V5.4, cert# I.2224.01

Florida, Dept. of Health, cert# E87653-70

Georgia, Env. Protection Division, cert# E87653

Illinois, EPA NELAP, cert# 2000552024-9

Kansas, Dept. of Health and Environment, cert# E-10417

Kentucky, Dept. for Env. Protection, UST, cert# 103582

Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125

North Carolina, DEQ, Water Resources, cert# 329

New Jersey, Dept. of Env. Protection, cert# NLC 240005

Oklahoma, Dept. of Env. Quality, cert# 2023-175

Oregon, ELAP, cert# 4181-006

Pennsylvania, Dept. of Env. Protection, cert# 003

South Carolina, Dept. of Env. Services, cert# 32010001

Texas, Commission on Env. Quality, cert# TX-C24-00083

Virginia, Dept. of General Services, cert# 13080

Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92846395001	MCD-INW-05	Water	02/25/26 17:35	02/26/26 14:11
92846395002	MCD-AP234-FB-1	Water	02/25/26 17:00	02/26/26 14:11
92846395003	MCD-AP234-EB-1	Water	02/25/26 17:10	02/26/26 14:11
92846395004	MCD-AP234-FD-1	Water	02/25/26 00:00	02/26/26 14:11

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92846395001	MCD-INW-05	EPA 6020B	JDB	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92846395002	MCD-AP234-FB-1	EPA 6020B	JDB	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92846395003	MCD-AP234-EB-1	EPA 6020B	JDB	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92846395004	MCD-AP234-FD-1	EPA 6020B	JDB	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Sample: MCD-INW-05		Lab ID: 92846395001		Collected: 02/25/26 17:35		Received: 02/26/26 14:11		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00928	mg/L	0.00200	0.000600	1	03/01/26 14:11	03/02/26 13:01	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	84.4	mg/L	5.0	5.0	1		03/06/26 18:35		
Alkalinity, Total as CaCO ₃	84.4	mg/L	5.0	5.0	1		03/06/26 18:35		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	1110	mg/L	50.0	50.0	1		03/01/26 10:03		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		03/02/26 20:07	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	1.0	mg/L	0.10	0.060	1		02/27/26 04:53	24959-67-9	
Chloride	10.9	mg/L	1.0	0.60	1		02/27/26 04:53	16887-00-6	
Fluoride	1.0	mg/L	0.10	0.050	1		02/27/26 04:53	16984-48-8	
Sulfate	565	mg/L	13.0	6.5	13		02/27/26 08:38	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	04/08/26 09:00	04/14/26 10:26	7440-36-0	
Arsenic	ND	mg/L	0.050	0.010	25	04/08/26 09:00	04/14/26 10:30	7440-38-2	1g
Barium	0.077	mg/L	0.0050	0.00056	1	04/08/26 09:00	04/14/26 10:26	7440-39-3	
Beryllium	0.0050	mg/L	0.00040	0.00015	1	04/08/26 09:00	04/14/26 10:26	7440-41-7	
Boron	4.2	mg/L	1.0	0.18	25	04/08/26 09:00	04/14/26 10:30	7440-42-8	
Cadmium	0.0017	mg/L	0.00050	0.00010	1	04/08/26 09:00	04/14/26 10:26	7440-43-9	
Calcium	87.1	mg/L	10.0	2.5	25	04/08/26 09:00	04/14/26 10:30	7440-70-2	
Chromium	0.00025J	mg/L	0.0050	0.00024	1	04/08/26 09:00	04/14/26 10:26	7440-47-3	
Cobalt	1.2	mg/L	0.12	0.0030	25	04/08/26 09:00	04/16/26 17:20	7440-48-4	
Iron	0.50J	mg/L	1.0	0.41	25	04/08/26 09:00	04/14/26 10:30	7439-89-6	1g
Lead	ND	mg/L	0.025	0.0068	25	04/08/26 09:00	04/14/26 10:30	7439-92-1	1g
Magnesium	44.5	mg/L	0.050	0.024	1	04/08/26 09:00	04/14/26 10:26	7439-95-4	
Manganese	71.2	mg/L	2.5	0.63	500	04/08/26 09:00	04/14/26 10:33	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/08/26 09:00	04/14/26 10:26	7439-98-7	
Potassium	208	mg/L	10.0	3.3	25	04/08/26 09:00	04/14/26 10:30	7440-09-7	
Selenium	0.044	mg/L	0.0050	0.00050	1	04/08/26 09:00	04/14/26 10:26	7782-49-2	
Sodium	28.1	mg/L	0.40	0.083	1	04/08/26 09:00	04/14/26 10:26	7440-23-5	
Thallium	ND	mg/L	0.012	0.0042	25	04/08/26 09:00	04/14/26 10:30	7440-28-0	1g

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Sample: MCD-INW-05		Lab ID: 92846395001		Collected: 02/25/26 17:35		Received: 02/26/26 14:11		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	02/27/26 15:25	02/27/26 21:15	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

Sample: MCD-AP234-FB-1 Lab ID: 92846395002 Collected: 02/25/26 17:00 Received: 02/26/26 14:11 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.00869	mg/L	0.00200	0.000600	1	03/01/26 14:11	03/02/26 13:04	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/06/26 19:13		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/06/26 19:13		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/01/26 10:03		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/02/26 20:08	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		02/26/26 23:45	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		02/26/26 23:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/26 23:45	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/26/26 23:45	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/02/26 17:26	04/06/26 15:26	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/02/26 17:26	04/06/26 15:26	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	04/02/26 17:26	04/06/26 15:26	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/02/26 17:26	04/06/26 15:26	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0073	1	04/02/26 17:26	04/06/26 15:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/02/26 17:26	04/06/26 15:26	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	04/02/26 17:26	04/06/26 15:26	7440-70-2	
Chromium	ND	mg/L	0.0050	0.00024	1	04/02/26 17:26	04/06/26 15:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/02/26 17:26	04/06/26 15:26	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	04/02/26 17:26	04/06/26 15:26	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	04/02/26 17:26	04/06/26 15:26	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	04/02/26 17:26	04/06/26 15:26	7439-95-4	
Manganese	0.0013J	mg/L	0.0050	0.0013	1	04/02/26 17:26	04/06/26 15:26	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/02/26 17:26	04/06/26 15:26	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/02/26 17:26	04/06/26 15:26	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/02/26 17:26	04/06/26 15:26	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	04/02/26 17:26	04/06/26 15:26	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	04/02/26 17:26	04/06/26 15:26	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Sample: MCD-AP234-FB-1		Lab ID: 92846395002		Collected: 02/25/26 17:00		Received: 02/26/26 14:11		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	02/27/26 15:25	02/27/26 21:17	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

Sample: MCD-AP234-EB-1 Lab ID: 92846395003 Collected: 02/25/26 17:10 Received: 02/26/26 14:11 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	03/01/26 14:11	03/02/26 13:07	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/06/26 19:16		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/06/26 19:16		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/01/26 10:03		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/02/26 20:08	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		02/26/26 23:59	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		02/26/26 23:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/26 23:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/26/26 23:59	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/02/26 17:26	04/06/26 15:29	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/02/26 17:26	04/06/26 15:29	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	04/02/26 17:26	04/06/26 15:29	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/02/26 17:26	04/06/26 15:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	04/02/26 17:26	04/06/26 15:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/02/26 17:26	04/06/26 15:29	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	04/02/26 17:26	04/06/26 15:29	7440-70-2	
Chromium	0.00030J	mg/L	0.0050	0.00024	1	04/02/26 17:26	04/06/26 15:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/02/26 17:26	04/06/26 15:29	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	04/02/26 17:26	04/06/26 15:29	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	04/02/26 17:26	04/06/26 15:29	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	04/02/26 17:26	04/06/26 15:29	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	04/02/26 17:26	04/06/26 15:29	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/02/26 17:26	04/06/26 15:29	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/02/26 17:26	04/06/26 15:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/02/26 17:26	04/06/26 15:29	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	04/02/26 17:26	04/06/26 15:29	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	04/02/26 17:26	04/06/26 15:29	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Sample: MCD-AP234-EB-1		Lab ID: 92846395003		Collected: 02/25/26 17:10		Received: 02/26/26 14:11		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	02/27/26 15:25	02/27/26 21:25	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

Sample: MCD-AP234-FD-1 Lab ID: 92846395004 Collected: 02/25/26 00:00 Received: 02/26/26 14:11 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	03/01/26 14:11	03/02/26 13:10	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	77.1	mg/L	5.0	5.0	1		03/06/26 19:20		
Alkalinity, Total as CaCO ₃	77.1	mg/L	5.0	5.0	1		03/06/26 19:20		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	1130	mg/L	50.0	50.0	1		03/01/26 10:03		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/02/26 20:14	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	1.0	mg/L	0.10	0.060	1		02/27/26 05:07	24959-67-9	M1
Chloride	10.8	mg/L	1.0	0.60	1		02/27/26 05:07	16887-00-6	
Fluoride	1.2	mg/L	0.10	0.050	1		02/27/26 05:07	16984-48-8	M1
Sulfate	566	mg/L	13.0	6.5	13		02/27/26 08:52	14808-79-8	M1
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/08/26 09:00	04/14/26 10:12	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/08/26 09:00	04/14/26 10:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	04/08/26 09:00	04/14/26 10:12	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/08/26 09:00	04/14/26 10:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	04/08/26 09:00	04/14/26 10:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/08/26 09:00	04/14/26 10:12	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	04/08/26 09:00	04/14/26 10:12	7440-70-2	
Chromium	ND	mg/L	0.0050	0.00024	1	04/08/26 09:00	04/14/26 10:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/08/26 09:00	04/14/26 10:12	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	04/08/26 09:00	04/14/26 10:12	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	04/08/26 09:00	04/14/26 10:12	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	04/08/26 09:00	04/14/26 10:12	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	04/08/26 09:00	04/14/26 10:12	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/08/26 09:00	04/14/26 10:12	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/08/26 09:00	04/14/26 10:12	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/08/26 09:00	04/14/26 10:12	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	04/08/26 09:00	04/14/26 10:12	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	04/08/26 09:00	04/14/26 10:12	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Sample: MCD-AP234-FD-1		Lab ID: 92846395004		Collected: 02/25/26 00:00		Received: 02/26/26 14:11		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	02/27/26 15:25	02/27/26 21:27	7439-97-6	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch: 2703106 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

METHOD BLANK: R4342483-1 Matrix: Water
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	03/02/26 11:54	

LABORATORY CONTROL SAMPLE: R4342483-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0496	99.3	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4342483-4 R4342483-5

Parameter	Units	L1948861-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00550	0.0500	0.0500	0.0530	0.0536	94.9	96.2	75.0-125	1.24	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch:	995262	Analysis Method:	SM 2320B-2021
QC Batch Method:	SM 2320B-2021	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92846395001

METHOD BLANK: 5116417 Matrix: Water
Associated Lab Samples: 92846395001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	03/06/26 15:02	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/06/26 15:02	

LABORATORY CONTROL SAMPLE: 5116418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.2	102	80-120	

LABORATORY CONTROL SAMPLE: 5116419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	50.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5116420 5116421

Parameter	Units	92846417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	276	50	50	332	325	111	98	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5116422 5116423

Parameter	Units	92846417002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	97.6	50	50	143	148	91	100	80-120	3	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch: 995263 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92846395002, 92846395003, 92846395004

METHOD BLANK: 5116424 Matrix: Water
Associated Lab Samples: 92846395002, 92846395003, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	03/06/26 18:57	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/06/26 18:57	

LABORATORY CONTROL SAMPLE: 5116425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 5116426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5116427 5116428

Parameter	Units	92846399001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	12.7	50	50	63.6	64.2	102	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5116429 5116430

Parameter	Units	92846399002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	37.3	50	50	86.8	88.3	99	102	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

QC Batch: 994009 Analysis Method: SM 2540C-2020
QC Batch Method: SM 2540C-2020 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

METHOD BLANK: 5110046 Matrix: Water
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/01/26 10:01	

LABORATORY CONTROL SAMPLE: 5110047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 5110048

Parameter	Units	92846200003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1020	1010	1	25	

SAMPLE DUPLICATE: 5110049

Parameter	Units	92846255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	297	296	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch: 994211 Analysis Method: SM 4500-S2D-2021
QC Batch Method: SM 4500-S2D-2021 Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

METHOD BLANK: 5110816 Matrix: Water
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	03/02/26 19:45	

LABORATORY CONTROL SAMPLE: 5110817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5110818 5110819

Parameter	Units	92846225006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.38	0.39	77	79	80-120	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5110820 5110821

Parameter	Units	92846225010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.31	0.31	62	62	80-120	1	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch: 993554 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

METHOD BLANK: 5108009 Matrix: Water
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	02/26/26 22:33	
Chloride	mg/L	ND	1.0	0.60	02/26/26 22:33	
Fluoride	mg/L	ND	0.10	0.050	02/26/26 22:33	
Sulfate	mg/L	ND	1.0	0.50	02/26/26 22:33	

LABORATORY CONTROL SAMPLE: 5108010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.4	95	90-110	
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.3	94	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5108011 5108012

Parameter	Units	92846286001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	0.31	2.5	2.5	2.8	3.0	100	108	90-110	7	10	
Chloride	mg/L	20.4	50	50	70.2	73.7	100	107	90-110	5	10	
Fluoride	mg/L	0.20	2.5	2.5	2.5	2.7	91	99	90-110	7	10	
Sulfate	mg/L	9.3	50	50	60.4	63.9	102	109	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5108013 5108014

Parameter	Units	92846395004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	1.0	2.5	2.5	3.7	3.8	106	113	90-110	4	10 M1	
Chloride	mg/L	10.8	50	50	59.9	62.3	98	103	90-110	4	10	
Fluoride	mg/L	1.2	2.5	2.5	4.3	4.5	127	133	90-110	4	10 M1	
Sulfate	mg/L	566	50	50	606	623	79	114	90-110	3	10 M1	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch:	1001067	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92846395002, 92846395003

METHOD BLANK: 5147566 Matrix: Water

Associated Lab Samples: 92846395002, 92846395003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	04/06/26 15:09	
Arsenic	mg/L	ND	0.0020	0.00041	04/06/26 15:09	
Barium	mg/L	ND	0.0050	0.00056	04/06/26 15:09	
Beryllium	mg/L	ND	0.00040	0.00015	04/06/26 15:09	
Boron	mg/L	ND	0.040	0.0073	04/06/26 15:09	
Cadmium	mg/L	ND	0.00050	0.00010	04/06/26 15:09	
Calcium	mg/L	ND	0.40	0.10	04/06/26 15:09	
Chromium	mg/L	ND	0.0050	0.00024	04/06/26 15:09	
Cobalt	mg/L	ND	0.0050	0.00012	04/06/26 15:09	
Iron	mg/L	ND	0.040	0.016	04/06/26 15:09	
Lead	mg/L	ND	0.0010	0.00027	04/06/26 15:09	
Magnesium	mg/L	ND	0.050	0.024	04/06/26 15:09	
Manganese	mg/L	ND	0.0050	0.0013	04/06/26 15:09	
Molybdenum	mg/L	ND	0.010	0.0020	04/06/26 15:09	
Potassium	mg/L	ND	0.40	0.13	04/06/26 15:09	
Selenium	mg/L	ND	0.0050	0.00050	04/06/26 15:09	
Sodium	mg/L	ND	0.40	0.083	04/06/26 15:09	
Thallium	mg/L	ND	0.00050	0.00017	04/06/26 15:09	

LABORATORY CONTROL SAMPLE: 5147567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	0.1	0.095	95	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Calcium	mg/L	1	0.93	93	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Iron	mg/L	1	1.0	105	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Manganese	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Sodium	mg/L	1	1.0	102	80-120	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

LABORATORY CONTROL SAMPLE: 5147567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5147568 5147569

Parameter	Units	92845986010	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.10	105	104	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	104	103	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.098	105	98	75-125	7	20	
Boron	mg/L	0.0093J	0.1	0.1	0.11	0.10	99	95	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Calcium	mg/L	38.2	1	1	39.3	37.1	113	-113	75-125	6	20	M1
Chromium	mg/L	0.00072J	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	105	103	75-125	1	20	
Iron	mg/L	0.035J	1	1	1.1	1.1	105	106	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Magnesium	mg/L	21.4	1	1	22.6	22.2	127	85	75-125	2	20	M1
Manganese	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Potassium	mg/L	0.68	1	1	1.7	1.7	106	104	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	105	100	75-125	5	20	
Sodium	mg/L	1.6	1	1	2.7	2.6	108	101	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch:	1002118	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92846395001, 92846395004

METHOD BLANK: 5152221 Matrix: Water

Associated Lab Samples: 92846395001, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	04/14/26 10:02	
Arsenic	mg/L	ND	0.0020	0.00041	04/14/26 10:02	
Barium	mg/L	ND	0.0050	0.00056	04/14/26 10:02	
Beryllium	mg/L	ND	0.00040	0.00015	04/14/26 10:02	
Boron	mg/L	ND	0.040	0.0073	04/14/26 10:02	
Cadmium	mg/L	ND	0.00050	0.00010	04/14/26 10:02	
Calcium	mg/L	ND	0.40	0.10	04/14/26 10:02	
Chromium	mg/L	ND	0.0050	0.00024	04/14/26 10:02	
Cobalt	mg/L	ND	0.0050	0.00012	04/14/26 10:02	
Iron	mg/L	ND	0.040	0.016	04/14/26 10:02	
Lead	mg/L	ND	0.0010	0.00027	04/14/26 10:02	
Magnesium	mg/L	ND	0.050	0.024	04/14/26 10:02	
Manganese	mg/L	ND	0.0050	0.0013	04/14/26 10:02	
Molybdenum	mg/L	ND	0.010	0.0020	04/14/26 10:02	
Potassium	mg/L	ND	0.40	0.13	04/14/26 10:02	
Selenium	mg/L	ND	0.0050	0.00050	04/14/26 10:02	
Sodium	mg/L	ND	0.40	0.083	04/14/26 10:02	
Thallium	mg/L	ND	0.00050	0.00017	04/14/26 10:02	

LABORATORY CONTROL SAMPLE & LCSD: 5152222

LABORATORY CONTROL SAMPLE & LCSD: 5152222			5152223							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/L	0.1	0.10	0.10	104	103	80-120	0	20	
Arsenic	mg/L	0.1	0.11	0.11	107	107	80-120	0	20	
Barium	mg/L	0.1	0.10	0.10	104	104	80-120	0	20	
Beryllium	mg/L	0.1	0.10	0.099	103	99	80-120	3	20	
Boron	mg/L	0.1	0.10	0.10	103	102	80-120	2	20	
Cadmium	mg/L	0.1	0.10	0.10	103	103	80-120	1	20	
Calcium	mg/L	1	1.1	1.1	114	106	80-120	7	20	
Chromium	mg/L	0.1	0.11	0.11	107	107	80-120	0	20	
Cobalt	mg/L	0.1	0.11	0.11	109	109	80-120	0	20	
Iron	mg/L	1	1.1	1.1	107	107	80-120	1	20	
Lead	mg/L	0.1	0.11	0.10	106	105	80-120	1	20	
Magnesium	mg/L	1	1.1	1.1	108	108	80-120	0	20	
Manganese	mg/L	0.1	0.11	0.11	108	108	80-120	0	20	
Molybdenum	mg/L	0.1	0.10	0.10	101	102	80-120	1	20	
Potassium	mg/L	1	1.1	1.1	108	108	80-120	1	20	
Selenium	mg/L	0.1	0.11	0.10	105	104	80-120	1	20	
Sodium	mg/L	1	1.1	1.1	109	108	80-120	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

LABORATORY CONTROL SAMPLE & LCSD:		5152222		5152223							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Thallium	mg/L	0.1	0.11	0.11	105	106	80-120	1	20		

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

QC Batch:	993808	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

METHOD BLANK: 5109065 Matrix: Water
Associated Lab Samples: 92846395001, 92846395002, 92846395003, 92846395004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	02/27/26 20:26	

LABORATORY CONTROL SAMPLE: 5109066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5109067 5109068

Parameter	Units	92846406002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00013J	0.002	0.002	0.0020	0.0019	101	94	80-120	8	20	

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QUALIFIERS

Project: Plant McD AP-234 Pilot
Pace Project No.: 92846395

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92846395
[1] WSP
[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

1g	The result for this analyte is reported from a diluted analysis due to an internal standard failure. The reporting limit has been adjusted accordingly.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Pilot

Pace Project No.: 92846395

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92846395001	MCD-INW-05	3015	2703106	EPA 6020B	2703106
92846395002	MCD-AP234-FB-1	3015	2703106	EPA 6020B	2703106
92846395003	MCD-AP234-EB-1	3015	2703106	EPA 6020B	2703106
92846395004	MCD-AP234-FD-1	3015	2703106	EPA 6020B	2703106
92846395001	MCD-INW-05	SM 2320B-2021	995262		
92846395002	MCD-AP234-FB-1	SM 2320B-2021	995263		
92846395003	MCD-AP234-EB-1	SM 2320B-2021	995263		
92846395004	MCD-AP234-FD-1	SM 2320B-2021	995263		
92846395001	MCD-INW-05	SM 2540C-2020	994009		
92846395002	MCD-AP234-FB-1	SM 2540C-2020	994009		
92846395003	MCD-AP234-EB-1	SM 2540C-2020	994009		
92846395004	MCD-AP234-FD-1	SM 2540C-2020	994009		
92846395001	MCD-INW-05	SM 4500-S2D-2021	994211		
92846395002	MCD-AP234-FB-1	SM 4500-S2D-2021	994211		
92846395003	MCD-AP234-EB-1	SM 4500-S2D-2021	994211		
92846395004	MCD-AP234-FD-1	SM 4500-S2D-2021	994211		
92846395001	MCD-INW-05	EPA 300.0 Rev 2.1 1993	993554		
92846395002	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	993554		
92846395003	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	993554		
92846395004	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	993554		
92846395001	MCD-INW-05	EPA 3005A	1002118	EPA 6020B	1002823
92846395002	MCD-AP234-FB-1	EPA 3005A	1001067	EPA 6020B	1001281
92846395003	MCD-AP234-EB-1	EPA 3005A	1001067	EPA 6020B	1001281
92846395004	MCD-AP234-FD-1	EPA 3005A	1002118	EPA 6020B	1002823
92846395001	MCD-INW-05	EPA 7470A	993808	EPA 7470A	993971
92846395002	MCD-AP234-FB-1	EPA 7470A	993808	EPA 7470A	993971
92846395003	MCD-AP234-EB-1	EPA 7470A	993808	EPA 7470A	993971
92846395004	MCD-AP234-FD-1	EPA 7470A	993808	EPA 7470A	993971

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92846395

Courier:

☒ Commercial☐ Fed Ex☐ UPS☐ USPS☐ Client☐ Pace☐ Other:

Custody Seal Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☐ No☒ N/A

Date/Initials Person Examining Contents: 5/26/26 gja

Packing Material:

☒ Bubble Wrap☐ Bubble Bags☐ None☐ Other

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Thermometer:

☒ IR Gun ID:

232

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

20

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

20

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

92846395

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Client GA Power Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
1		2	1		1	1	1																					
2		2	1		1	1	1																					
3		2	1		1	1	1																					
4		2	1		1	1	1																					
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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

Section C

Invoice information:State / Location

CLIENT: 92-GA Power

DATE Signed: 2/26/34

Page 28 of 28

APPENDIX B

**Analytical Results
March 2026**



April 02, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92849969001	MCD-INW-03	Water	03/16/26 16:40	03/17/26 17:00
92849969002	MCD-INW-04	Water	03/16/26 15:24	03/17/26 17:00
92849969003	MCD-DR-02	Water	03/16/26 14:16	03/17/26 17:00
92849969004	MCD-DR-03	Water	03/16/26 11:40	03/17/26 17:00
92849969005	MCD-AP234-FB-1	Water	03/16/26 12:00	03/17/26 17:00
92849969006	MCD-AP234-EB-1	Water	03/16/26 14:36	03/17/26 17:00
92849969007	MCD-AP234-FD-1	Water	03/16/26 00:00	03/17/26 17:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92849969001	MCD-INW-03	EPA 6020B	LD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB, BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92849969002	MCD-INW-04	EPA 6020B	JPD, LD	1	PAN
		SM 2320B-2021	MDW	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB, BW	18	PASI-WC
		EPA 6020B	BW, JJM1	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	LD	1	PAN
92849969003	MCD-DR-02	SM 2320B-2021	MDW	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB, BW	18	PASI-WC
		EPA 6020B	BW, JJM1	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	TMT	1	PAN
		SM 2320B-2021	MDW	2	PASI-A
92849969004	MCD-DR-03	SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB, BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	TMT	1	PAN
		SM 2320B-2021	MDW	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
92849969005	MCD-AP234-FB-1	EPA 6020B	TMT	1	PAN
		SM 2320B-2021	MDW	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92849969006	MCD-AP234-EB-1	EPA 6020B	ARB, BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	TMT	1	PAN
		SM 2320B-2021	MDW	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
92849969007	MCD-AP234-FD-1	EPA 6020B	ARB, BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	LD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		SM 2540C-2020	NSS	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	ARB, BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-INW-03		Lab ID: 92849969001		Collected: 03/16/26 16:40		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	ND	mg/L	0.0180	0.00540	9	03/21/26 12:19	03/25/26 16:42	7439-93-2	P4
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	6620	mg/L	5.0	5.0	1		03/21/26 14:16		
Alkalinity, Total as CaCO ₃	6620	mg/L	5.0	5.0	1		03/21/26 14:16		M1
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	10800	mg/L	2500	2500	1		03/20/26 06:12		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:39	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	8.0	mg/L	1.0	0.60	10		03/19/26 07:05	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		03/19/26 03:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/19/26 03:51	16984-48-8	
Sulfate	427	mg/L	10.0	5.0	10		03/19/26 07:05	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/20/26 13:22	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:22	7440-38-2	
Barium	0.32	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/20/26 13:22	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:22	7440-41-7	
Boron	1.4	mg/L	0.40	0.073	10	03/19/26 22:50	03/30/26 19:28	7440-42-8	
Cadmium	0.00026J	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:22	7440-43-9	
Calcium	60.6	mg/L	20.0	5.0	50	03/19/26 22:50	03/31/26 16:48	7440-70-2	
Chromium	0.0013J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:22	7440-47-3	
Cobalt	0.062	mg/L	0.0050	0.00012	1	03/19/26 22:50	03/20/26 13:22	7440-48-4	
Iron	0.088	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:22	7439-89-6	
Lead	ND	mg/L	0.010	0.0027	10	03/19/26 22:50	03/30/26 19:28	7439-92-1	D4
Magnesium	22.7	mg/L	0.050	0.024	1	03/19/26 22:50	03/20/26 13:22	7439-95-4	
Manganese	3.7	mg/L	0.25	0.063	50	03/19/26 22:50	03/31/26 16:48	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:22	7439-98-7	
Potassium	5140	mg/L	200	66.0	500	03/19/26 22:50	03/31/26 16:57	7440-09-7	
Selenium	0.0085	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:22	7782-49-2	
Sodium	29.1	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:22	7440-23-5	
Thallium	0.0025	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/20/26 13:22	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-INW-03		Lab ID: 92849969001		Collected: 03/16/26 16:40		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:25	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-INW-04		Lab ID: 92849969002		Collected: 03/16/26 15:24		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.00154J	mg/L	0.00200	0.000600	1	03/19/26 19:46	03/20/26 15:30	7439-93-2	J
Lithium, Dissolved	0.00263	mg/L	0.00200	0.000600	1	03/22/26 08:33	03/25/26 18:10	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	1100	mg/L	5.0	5.0	1		03/19/26 14:13		
Alkalinity, Total as CaCO ₃	1100	mg/L	5.0	5.0	1		03/19/26 14:13		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	2500	mg/L	250	250	1		03/20/26 06:12		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:40	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	4.4	mg/L	1.6	0.96	16		03/19/26 07:20	24959-67-9	
Chloride	12.3	mg/L	1.0	0.60	1		03/19/26 04:06	16887-00-6	
Fluoride	1.3	mg/L	0.10	0.050	1		03/19/26 04:06	16984-48-8	
Sulfate	684	mg/L	16.0	8.0	16		03/19/26 07:20	14808-79-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.10	0.022	50	03/19/26 22:50	03/30/26 19:38	7440-36-0	D4
Arsenic	0.0025	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:25	7440-38-2	
Barium	0.10J	mg/L	0.25	0.028	50	03/19/26 22:50	03/30/26 19:38	7440-39-3	D4
Beryllium	0.0034	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:25	7440-41-7	
Boron	3.5	mg/L	2.0	0.37	50	03/19/26 22:50	03/30/26 19:38	7440-42-8	
Cadmium	0.0028	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:25	7440-43-9	
Calcium	151	mg/L	20.0	5.0	50	03/19/26 22:50	03/30/26 19:38	7440-70-2	
Chromium	0.00084J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:25	7440-47-3	
Cobalt	2.4	mg/L	0.25	0.0060	50	03/19/26 22:50	03/30/26 19:38	7440-48-4	
Iron	0.90	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:25	7439-89-6	
Lead	ND	mg/L	0.050	0.014	50	03/19/26 22:50	03/30/26 19:38	7439-92-1	D4
Magnesium	86.2	mg/L	2.5	1.2	50	03/19/26 22:50	03/30/26 19:38	7439-95-4	
Manganese	97.4	mg/L	2.5	0.63	500	03/19/26 22:50	03/30/26 19:47	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:25	7439-98-7	
Potassium	758	mg/L	20.0	6.6	50	03/19/26 22:50	03/30/26 19:38	7440-09-7	
Selenium	0.046	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:25	7782-49-2	
Sodium	31.0	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:25	7440-23-5	
Thallium	ND	mg/L	0.025	0.0085	50	03/19/26 22:50	03/30/26 19:38	7440-28-0	D4

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-INW-04		Lab ID: 92849969002		Collected: 03/16/26 15:24		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.10	0.022	50	03/19/26 22:50	03/25/26 15:45	7440-36-0	D3
Arsenic, Dissolved	0.0015J	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/24/26 09:48	7440-38-2	
Barium, Dissolved	0.090	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/24/26 11:45	7440-39-3	
Beryllium, Dissolved	0.0030	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/24/26 09:48	7440-41-7	
Boron, Dissolved	2.8	mg/L	2.0	0.37	50	03/19/26 22:50	03/25/26 15:45	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.025	0.0050	50	03/19/26 22:50	03/25/26 15:45	7440-43-9	D3
Calcium, Dissolved	150	mg/L	20.0	5.0	50	03/19/26 22:50	03/25/26 15:45	7440-70-2	
Chromium, Dissolved	ND	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/24/26 09:48	7440-47-3	
Cobalt, Dissolved	1.9	mg/L	0.25	0.0060	50	03/19/26 22:50	03/25/26 15:45	7440-48-4	
Iron, Dissolved	0.16	mg/L	0.040	0.016	1	03/19/26 22:50	03/24/26 09:48	7439-89-6	
Lead, Dissolved	ND	mg/L	0.0010	0.00027	1	03/19/26 22:50	03/24/26 11:45	7439-92-1	
Magnesium, Dissolved	67.7	mg/L	2.5	1.2	50	03/19/26 22:50	03/25/26 15:45	7439-95-4	
Manganese, Dissolved	82.7	mg/L	2.5	0.63	500	03/19/26 22:50	03/25/26 16:04	7439-96-5	
Molybdenum, Dissolved	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/24/26 09:48	7439-98-7	
Potassium, Dissolved	789	mg/L	20.0	6.6	50	03/19/26 22:50	03/25/26 15:45	7440-09-7	
Selenium, Dissolved	0.037	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/24/26 09:48	7782-49-2	
Sodium, Dissolved	30.0	mg/L	0.40	0.083	1	03/19/26 22:50	03/24/26 09:48	7440-23-5	
Thallium, Dissolved	0.0037	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/24/26 11:45	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:28	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 23:13	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-DR-02 Lab ID: 92849969003 Collected: 03/16/26 14:16 Received: 03/17/26 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B, Diss. Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium, Dissolved	ND	mg/L	0.0200	0.00600	10	03/22/26 08:33	03/25/26 18:29	7439-93-2	
Lithium	ND	mg/L	0.0200	0.00600	10	03/21/26 12:19	03/25/26 19:12	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	4590	mg/L	5.0	5.0	1		03/19/26 16:31		
Alkalinity, Total as CaCO3	4590	mg/L	5.0	5.0	1		03/19/26 16:31		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	7600	mg/L	625	625	1		03/20/26 06:12		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:41	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	4.8	mg/L	1.6	0.96	16		03/19/26 07:34	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		03/19/26 04:21	16887-00-6	
Fluoride	0.23	mg/L	0.10	0.050	1		03/19/26 04:21	16984-48-8	
Sulfate	651	mg/L	16.0	8.0	16		03/19/26 07:34	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/20/26 13:28	7440-36-0	
Arsenic	0.00092J	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:28	7440-38-2	
Barium	0.25	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/20/26 13:28	7440-39-3	
Beryllium	0.0011	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:28	7440-41-7	
Boron	4.0	mg/L	2.0	0.37	50	03/19/26 22:50	03/30/26 19:56	7440-42-8	
Cadmium	0.0019	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:28	7440-43-9	
Calcium	106	mg/L	20.0	5.0	50	03/19/26 22:50	03/30/26 19:56	7440-70-2	
Chromium	0.00073J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:28	7440-47-3	
Cobalt	1.5	mg/L	0.25	0.0060	50	03/19/26 22:50	03/30/26 19:56	7440-48-4	
Iron	0.49	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:28	7439-89-6	
Lead	ND	mg/L	0.050	0.014	50	03/19/26 22:50	03/30/26 19:56	7439-92-1	D4
Magnesium	82.3	mg/L	2.5	1.2	50	03/19/26 22:50	03/30/26 19:56	7439-95-4	
Manganese	72.9	mg/L	2.5	0.63	500	03/19/26 22:50	03/30/26 20:06	7439-96-5	
Molybdenum	0.0040J	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:28	7439-98-7	
Potassium	3710	mg/L	200	66.0	500	03/19/26 22:50	03/30/26 20:06	7440-09-7	
Selenium	0.013	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:28	7782-49-2	
Sodium	36.8	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:28	7440-23-5	
Thallium	0.0066	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/20/26 13:28	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-DR-02		Lab ID: 92849969003		Collected: 03/16/26 14:16		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/24/26 09:52	7440-36-0	
Arsenic, Dissolved	ND	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/24/26 09:52	7440-38-2	
Barium, Dissolved	0.24	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/24/26 09:52	7440-39-3	
Beryllium, Dissolved	0.00069	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/24/26 09:52	7440-41-7	
Boron, Dissolved	3.2	mg/L	2.0	0.37	50	03/19/26 22:50	03/25/26 15:54	7440-42-8	
Cadmium, Dissolved	0.0019	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/24/26 09:52	7440-43-9	
Calcium, Dissolved	101	mg/L	20.0	5.0	50	03/19/26 22:50	03/25/26 15:54	7440-70-2	
Chromium, Dissolved	0.00024J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/24/26 09:52	7440-47-3	
Cobalt, Dissolved	1.2	mg/L	0.25	0.0060	50	03/19/26 22:50	03/25/26 15:54	7440-48-4	
Iron, Dissolved	0.085	mg/L	0.040	0.016	1	03/19/26 22:50	03/24/26 09:52	7439-89-6	
Lead, Dissolved	ND	mg/L	0.0010	0.00027	1	03/19/26 22:50	03/24/26 09:52	7439-92-1	
Magnesium, Dissolved	64.2	mg/L	2.5	1.2	50	03/19/26 22:50	03/25/26 15:54	7439-95-4	
Manganese, Dissolved	64.3	mg/L	2.5	0.63	500	03/19/26 22:50	03/25/26 16:13	7439-96-5	
Molybdenum, Dissolved	0.0039J	mg/L	0.010	0.0020	1	03/19/26 22:50	03/24/26 09:52	7439-98-7	
Potassium, Dissolved	3670	mg/L	200	66.0	500	03/19/26 22:50	03/25/26 16:13	7440-09-7	
Selenium, Dissolved	0.0081	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/24/26 09:52	7782-49-2	
Sodium, Dissolved	35.2	mg/L	0.40	0.083	1	03/19/26 22:50	03/24/26 09:52	7440-23-5	
Thallium, Dissolved	0.0066	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/24/26 09:52	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:30	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 23:21	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-DR-03		Lab ID: 92849969004		Collected: 03/16/26 11:40		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00587	mg/L	0.00200	0.000600	1	03/19/26 19:46	03/20/26 15:40	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	46.2	mg/L	5.0	5.0	1		03/19/26 14:32		
Alkalinity, Total as CaCO ₃	46.2	mg/L	5.0	5.0	1		03/19/26 14:32		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	527	mg/L	25.0	25.0	1		03/20/26 06:12		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:42	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	0.14	mg/L	0.10	0.060	1		03/19/26 04:36	24959-67-9	
Chloride	16.6	mg/L	1.0	0.60	1		03/19/26 04:36	16887-00-6	
Fluoride	0.36	mg/L	0.10	0.050	1		03/19/26 04:36	16984-48-8	
Sulfate	255	mg/L	6.0	3.0	6		03/19/26 07:49	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/20/26 13:31	7440-36-0	
Arsenic	0.0019J	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:31	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/20/26 13:31	7440-39-3	
Beryllium	0.0020	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:31	7440-41-7	
Boron	4.7	mg/L	2.0	0.37	50	03/19/26 22:50	03/31/26 17:06	7440-42-8	
Cadmium	0.0014	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:31	7440-43-9	
Calcium	69.6	mg/L	20.0	5.0	50	03/19/26 22:50	03/31/26 17:06	7440-70-2	
Chromium	0.00043J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:31	7440-47-3	
Cobalt	0.28	mg/L	0.0050	0.00012	1	03/19/26 22:50	03/20/26 13:31	7440-48-4	
Iron	1.1	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:31	7439-89-6	
Lead	ND	mg/L	0.050	0.014	50	03/19/26 22:50	03/31/26 17:06	7439-92-1	D4
Magnesium	28.9	mg/L	0.050	0.024	1	03/19/26 22:50	03/20/26 13:31	7439-95-4	
Manganese	21.5	mg/L	2.5	0.63	500	03/19/26 22:50	03/31/26 17:16	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:31	7439-98-7	
Potassium	ND	mg/L	20.0	6.6	50	03/19/26 22:50	03/31/26 17:06	7440-09-7	
Selenium	0.016	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:31	7782-49-2	
Sodium	25.4	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:31	7440-23-5	
Thallium	0.00067	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/20/26 13:31	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-DR-03		Lab ID: 92849969004		Collected: 03/16/26 11:40		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:33	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-AP234-FB-1 Lab ID: 92849969005 Collected: 03/16/26 12:00 Received: 03/17/26 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	03/19/26 19:46	03/20/26 15:43	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/19/26 14:40		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/19/26 14:40		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/20/26 06:12		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:42	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		03/19/26 00:52	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		03/19/26 00:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/19/26 00:52	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/19/26 00:52	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/20/26 13:34	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:34	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/20/26 13:34	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:34	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0073	1	03/19/26 22:50	03/30/26 20:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:34	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	03/19/26 22:50	03/20/26 13:34	7440-70-2	
Chromium	0.00028J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	03/19/26 22:50	03/20/26 13:34	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:34	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	03/19/26 22:50	03/30/26 20:24	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	03/19/26 22:50	03/20/26 13:34	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	03/19/26 22:50	03/30/26 20:24	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:34	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	03/19/26 22:50	03/30/26 20:24	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:34	7782-49-2	
Sodium	0.089J	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:34	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/20/26 13:34	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-AP234-FB-1		Lab ID: 92849969005		Collected: 03/16/26 12:00		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:40	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-AP234-EB-1 Lab ID: 92849969006 Collected: 03/16/26 14:36 Received: 03/17/26 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	03/19/26 19:46	03/20/26 15:46	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/19/26 14:43		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/19/26 14:43		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/20/26 06:12		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:43	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		03/19/26 01:07	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		03/19/26 01:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/19/26 01:07	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/19/26 01:07	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/20/26 13:38	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:38	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/20/26 13:38	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	03/19/26 22:50	03/30/26 20:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:38	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	03/19/26 22:50	03/20/26 13:38	7440-70-2	
Chromium	0.00025J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	03/19/26 22:50	03/20/26 13:38	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:38	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	03/19/26 22:50	03/30/26 20:34	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	03/19/26 22:50	03/20/26 13:38	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	03/19/26 22:50	03/30/26 20:34	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:38	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	03/19/26 22:50	03/30/26 20:34	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:38	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:38	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/20/26 13:38	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-AP234-EB-1		Lab ID: 92849969006		Collected: 03/16/26 14:36		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:43	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Sample: MCD-AP234-FD-1 Lab ID: 92849969007 Collected: 03/16/26 00:00 Received: 03/17/26 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.000852J	mg/L	0.00200	0.000600	1	03/21/26 12:19	03/25/26 16:48	7439-93-2	J,P4
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	6570	mg/L	5.0	5.0	1		03/21/26 13:53		
Alkalinity, Total as CaCO ₃	6570	mg/L	5.0	5.0	1		03/21/26 13:53		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	10000	mg/L	2500	2500	1		03/20/26 06:13		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		03/21/26 04:44	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	7.8	mg/L	1.0	0.60	10		03/19/26 08:04	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		03/19/26 04:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/19/26 04:50	16984-48-8	
Sulfate	417	mg/L	10.0	5.0	10		03/19/26 08:04	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	03/19/26 22:50	03/20/26 13:47	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	03/19/26 22:50	03/20/26 13:47	7440-38-2	
Barium	0.30	mg/L	0.0050	0.00056	1	03/19/26 22:50	03/20/26 13:47	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	03/19/26 22:50	03/20/26 13:47	7440-41-7	
Boron	1.4	mg/L	0.40	0.073	10	03/19/26 22:50	03/30/26 21:02	7440-42-8	
Cadmium	0.00023J	mg/L	0.00050	0.00010	1	03/19/26 22:50	03/20/26 13:47	7440-43-9	
Calcium	56.6	mg/L	4.0	1.0	10	03/19/26 22:50	03/30/26 21:02	7440-70-2	
Chromium	0.0013J	mg/L	0.0050	0.00024	1	03/19/26 22:50	03/20/26 13:47	7440-47-3	
Cobalt	0.058	mg/L	0.0050	0.00012	1	03/19/26 22:50	03/20/26 13:47	7440-48-4	
Iron	0.095	mg/L	0.040	0.016	1	03/19/26 22:50	03/20/26 13:47	7439-89-6	
Lead	ND	mg/L	0.010	0.0027	10	03/19/26 22:50	03/30/26 21:02	7439-92-1	D4
Magnesium	21.5	mg/L	0.050	0.024	1	03/19/26 22:50	03/20/26 13:47	7439-95-4	
Manganese	3.5	mg/L	0.25	0.063	50	03/19/26 22:50	03/31/26 17:25	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	03/19/26 22:50	03/20/26 13:47	7439-98-7	
Potassium	5090	mg/L	200	66.0	500	03/19/26 22:50	03/31/26 17:35	7440-09-7	
Selenium	0.0076	mg/L	0.0050	0.00050	1	03/19/26 22:50	03/20/26 13:47	7782-49-2	
Sodium	27.8	mg/L	0.40	0.083	1	03/19/26 22:50	03/20/26 13:47	7440-23-5	
Thallium	0.0023	mg/L	0.00050	0.00017	1	03/19/26 22:50	03/20/26 13:47	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Sample: MCD-AP234-FD-1		Lab ID: 92849969007		Collected: 03/16/26 00:00		Received: 03/17/26 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	03/19/26 17:02	03/19/26 22:50	7439-97-6	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch: 2715773 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92849969002, 92849969004, 92849969005, 92849969006

METHOD BLANK: R4349921-1 Matrix: Water
Associated Lab Samples: 92849969002, 92849969004, 92849969005, 92849969006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	03/20/26 15:00	

LABORATORY CONTROL SAMPLE: R4349921-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0502	100	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4349921-4 R4349921-5

Parameter	Units	L1954897-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0487	0.0493	97.3	98.6	75.0-125	1.30	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch:	2716036	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples:

METHOD BLANK: R4351860-1 Matrix: Water

Associated Lab Samples: 92849969002, 92849969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	03/25/26 17:51	

LABORATORY CONTROL SAMPLE: R4351860-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0518	104	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4351860-4 R4351860-5

Parameter	Units	L1955105-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.160	0.0500	0.0500	0.206	0.204	93.5	88.9	75.0-125	1.11	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

QC Batch: 2716065

Analysis Method: EPA 6020B

QC Batch Method: 3015

Analysis Description: Metals (ICPMS) 6020B

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92849969001, 92849969003, 92849969007

METHOD BLANK: R4351819-6

Matrix: Water

Associated Lab Samples: 92849969001, 92849969003, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	03/25/26 17:13	

LABORATORY CONTROL SAMPLE: R4351819-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0522	104	80.0-120	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch: 997893 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92849969002, 92849969003, 92849969004, 92849969005, 92849969006

METHOD BLANK: 5129969 Matrix: Water
Associated Lab Samples: 92849969002, 92849969003, 92849969004, 92849969005, 92849969006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	03/19/26 11:20	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/19/26 11:20	

LABORATORY CONTROL SAMPLE: 5129970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 5129971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5129972 5129973

Parameter	Units	92849437001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	69.2	50	50	125	120	111	102	80-120	4	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5129974 5129975

Parameter	Units	92849437002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	92.4	50	50	149	145	113	106	80-120	3	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch: 998432 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92849969001, 92849969007

METHOD BLANK: 5133311 Matrix: Water

Associated Lab Samples: 92849969001, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	03/21/26 13:17	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/21/26 13:17	

LABORATORY CONTROL SAMPLE: 5133312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	54.0	108	80-120	

LABORATORY CONTROL SAMPLE: 5133313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5133314 5133315

Parameter	Units	92849969001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	6620	50	50	6860	6820	488	408	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch:	998107	Analysis Method:	SM 2540C-2020
QC Batch Method:	SM 2540C-2020	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

METHOD BLANK: 5131449 Matrix: Water
Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/20/26 06:12	

LABORATORY CONTROL SAMPLE: 5131450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 5131451

Parameter	Units	92849951002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	106	99.0	7	25	

SAMPLE DUPLICATE: 5131452

Parameter	Units	92849820002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5430	5520	2	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch:	998402	Analysis Method:	SM 4500-S2D-2021
QC Batch Method:	SM 4500-S2D-2021	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

METHOD BLANK: 5133207 Matrix: Water
Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	03/21/26 04:37	

LABORATORY CONTROL SAMPLE: 5133208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5133209 5133210

Parameter	Units	92849951002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.36	0.38	71	73	80-120	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5133211 5133212

Parameter	Units	92850581009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.45	0.50	85	97	80-120	12	10	R1

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch: 997750 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

METHOD BLANK: 5129484 Matrix: Water
Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	03/18/26 23:52	
Chloride	mg/L	ND	1.0	0.60	03/18/26 23:52	
Fluoride	mg/L	ND	0.10	0.050	03/18/26 23:52	
Sulfate	mg/L	ND	1.0	0.50	03/18/26 23:52	

LABORATORY CONTROL SAMPLE: 5129485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.5	101	90-110	
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5129486 5129487

Parameter	Units	92849951001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.4	2.6	98	105	90-110	7	10	
Chloride	mg/L	1.0	50	50	50.9	54.3	100	107	90-110	6	10	
Fluoride	mg/L	0.12	2.5	2.5	2.7	2.8	103	108	90-110	5	10	
Sulfate	mg/L	15.7	50	50	64.4	68.0	97	105	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5129488 5129489

Parameter	Units	92849930004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.5	2.5	97	100	90-110	2	10	
Chloride	mg/L	10.9	50	50	61.4	62.7	101	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	105	90-110	2	10	
Sulfate	mg/L	16.9	50	50	66.8	68.1	100	102	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch:	998003	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

METHOD BLANK: 5130641 Matrix: Water
Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	03/28/26 01:13	
Arsenic	mg/L	ND	0.0020	0.00041	03/28/26 01:13	
Barium	mg/L	ND	0.0050	0.00056	03/28/26 01:13	
Beryllium	mg/L	ND	0.00040	0.00015	03/28/26 01:13	
Boron	mg/L	ND	0.040	0.0073	03/28/26 01:13	
Cadmium	mg/L	ND	0.00050	0.00010	03/28/26 01:13	
Calcium	mg/L	ND	0.40	0.10	03/28/26 01:13	
Chromium	mg/L	ND	0.0050	0.00024	03/28/26 01:13	
Cobalt	mg/L	ND	0.0050	0.00012	03/28/26 01:13	
Iron	mg/L	ND	0.040	0.016	03/28/26 01:13	
Lead	mg/L	ND	0.0010	0.00027	03/28/26 01:13	
Magnesium	mg/L	ND	0.050	0.024	03/28/26 01:13	
Manganese	mg/L	ND	0.0050	0.0013	03/28/26 01:13	
Molybdenum	mg/L	ND	0.010	0.0020	03/28/26 01:13	
Potassium	mg/L	ND	0.40	0.13	03/28/26 01:13	
Selenium	mg/L	ND	0.0050	0.00050	03/28/26 01:13	
Sodium	mg/L	ND	0.40	0.083	03/28/26 01:13	
Thallium	mg/L	ND	0.00050	0.00017	03/28/26 01:13	

LABORATORY CONTROL SAMPLE: 5130642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.087	87	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Calcium	mg/L	1	1.0	103	80-120	
Chromium	mg/L	0.1	0.11	110	80-120	
Cobalt	mg/L	0.1	0.11	113	80-120	
Iron	mg/L	1	0.92	92	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Magnesium	mg/L	1	1.1	113	80-120	
Manganese	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Potassium	mg/L	1	1.1	110	80-120	
Selenium	mg/L	0.1	0.083	83	80-120	
Sodium	mg/L	1	0.97	97	80-120	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

LABORATORY CONTROL SAMPLE: 5130642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5130643 5130644

Parameter	Units	92849068021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Barium	mg/L	0.050	0.1	0.1	0.15	0.15	98	98	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.20	0.1	0.1	0.32	0.32	113	112	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	
Calcium	mg/L	100	1	1	100	98.2	-21	-221	75-125	2	20 M1	
Chromium	mg/L	0.0073	0.1	0.1	0.11	0.11	102	99	75-125	3	20	
Cobalt	mg/L	0.00022J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Iron	mg/L	0.088	1	1	1.1	1.1	100	99	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Magnesium	mg/L	4.7	1	1	5.7	5.6	109	98	75-125	2	20	
Manganese	mg/L	0.0065	0.1	0.1	0.11	0.11	105	102	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	
Potassium	mg/L	2.7	1	1	3.7	3.7	99	98	75-125	0	20	
Selenium	mg/L	0.00089J	0.1	0.1	0.10	0.10	102	99	75-125	3	20	
Sodium	mg/L	9.1	1	1	10.1	9.8	100	75	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch: 998011 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: WC 6020B MET Dissolved
Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92849969002, 92849969003

METHOD BLANK: 5130670 Matrix: Water

Associated Lab Samples: 92849969002, 92849969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00092J	0.0020	0.00043	03/24/26 08:55	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	03/24/26 08:55	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	03/24/26 08:55	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	03/24/26 08:55	
Boron, Dissolved	mg/L	ND	0.040	0.0073	03/24/26 10:01	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	03/24/26 08:55	
Calcium, Dissolved	mg/L	ND	0.40	0.10	03/24/26 08:55	
Chromium, Dissolved	mg/L	ND	0.0050	0.00024	03/24/26 08:55	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	03/24/26 08:55	
Iron, Dissolved	mg/L	ND	0.040	0.016	03/24/26 08:55	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	03/24/26 08:55	
Magnesium, Dissolved	mg/L	ND	0.050	0.024	03/24/26 08:55	
Manganese, Dissolved	mg/L	ND	0.0050	0.0013	03/24/26 08:55	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	03/24/26 08:55	
Potassium, Dissolved	mg/L	ND	0.40	0.13	03/24/26 08:55	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	03/24/26 08:55	
Sodium, Dissolved	mg/L	0.10J	0.40	0.083	03/24/26 08:55	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	03/24/26 08:55	

LABORATORY CONTROL SAMPLE: 5130671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.098	98	80-120	
Arsenic, Dissolved	mg/L	0.1	0.099	99	80-120	
Barium, Dissolved	mg/L	0.1	0.096	96	80-120	
Beryllium, Dissolved	mg/L	0.1	0.095	95	80-120	
Boron, Dissolved	mg/L	0.1	0.091	91	80-120	
Cadmium, Dissolved	mg/L	0.1	0.099	99	80-120	
Calcium, Dissolved	mg/L	1	0.94	94	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	104	80-120	
Cobalt, Dissolved	mg/L	0.1	0.097	97	80-120	
Iron, Dissolved	mg/L	1	0.97	97	80-120	
Lead, Dissolved	mg/L	0.1	0.10	100	80-120	
Magnesium, Dissolved	mg/L	1	0.96	96	80-120	
Manganese, Dissolved	mg/L	0.1	0.10	104	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.094	94	80-120	
Potassium, Dissolved	mg/L	1	1.0	103	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	102	80-120	
Sodium, Dissolved	mg/L	1	1.1	106	80-120	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

LABORATORY CONTROL SAMPLE: 5130671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium, Dissolved	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5130672 5130673

Parameter	Units	92849951001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	0	20	
Arsenic, Dissolved	mg/L	0.0051	0.1	0.1	0.10	0.10	97	97	75-125	0	20	
Barium, Dissolved	mg/L	0.062	0.1	0.1	0.16	0.16	95	94	75-125	1	20	
Beryllium, Dissolved	mg/L	0.00054	0.1	0.1	0.095	0.096	95	95	75-125	1	20	
Boron, Dissolved	mg/L	0.040J	0.1	0.1	0.13	0.13	96	98	75-125	2	20	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Calcium, Dissolved	mg/L	4.9	1	1	5.7	5.8	80	90	75-125	2	20	
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Cobalt, Dissolved	mg/L	0.0017J	0.1	0.1	0.099	0.099	97	98	75-125	0	20	
Iron, Dissolved	mg/L	0.85	1	1	1.8	1.8	93	93	75-125	0	20	
Lead, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Magnesium, Dissolved	mg/L	1.3	1	1	2.2	2.2	90	91	75-125	1	20	
Manganese, Dissolved	mg/L	0.25	0.1	0.1	0.35	0.35	100	101	75-125	0	20	
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Potassium, Dissolved	mg/L	1.3	1	1	2.2	2.3	93	95	75-125	1	20	
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Sodium, Dissolved	mg/L	2.2	1	1	3.2	3.3	96	104	75-125	2	20	
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch:	998014	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

METHOD BLANK: 5130710 Matrix: Water
Associated Lab Samples: 92849969001, 92849969002, 92849969003, 92849969004, 92849969005, 92849969006, 92849969007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	03/19/26 21:57	

LABORATORY CONTROL SAMPLE: 5130711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5130712 5130713

Parameter	Units	92849969004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0018	0.0017	90	87	80-120	3	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

QC Batch: 998017 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: WCOL 7470 Mercury, Dissolved
Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92849969002, 92849969003

METHOD BLANK: 5130726 Matrix: Water

Associated Lab Samples: 92849969002, 92849969003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000091	03/19/26 22:53	

LABORATORY CONTROL SAMPLE: 5130727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.002	0.0020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5130728 5130729

Parameter	Units	92849951003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.002	0.002	0.0020	0.0020	102	102	80-120	0	20	

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QUALIFIERS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92849969

- [1] WSP
- [2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

SAMPLE QUALIFIERS

Sample: 92849969001

- [1] Metals (ICPMS) by Method 6020B - dilution due to pH

Sample: 92849969003

- [1] Metals (ICPMS) by Method 6020B - dilution due to high K

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D4 Sample was diluted due to the presence of high levels of target analytes.
- J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALIFIERS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

ANALYTE QUALIFIERS

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.
R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92849969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92849969001	MCD-INW-03	3015	2716065	EPA 6020B	2716065
92849969002	MCD-INW-04	3015	2715773	EPA 6020B	2715773
92849969002	MCD-INW-04	3015	2716036	EPA 6020B	2716036
92849969003	MCD-DR-02	3015	2716036	EPA 6020B	2716036
92849969003	MCD-DR-02	3015	2716065	EPA 6020B	2716065
92849969004	MCD-DR-03	3015	2715773	EPA 6020B	2715773
92849969005	MCD-AP234-FB-1	3015	2715773	EPA 6020B	2715773
92849969006	MCD-AP234-EB-1	3015	2715773	EPA 6020B	2715773
92849969007	MCD-AP234-FD-1	3015	2716065	EPA 6020B	2716065
92849969001	MCD-INW-03	SM 2320B-2021	998432		
92849969002	MCD-INW-04	SM 2320B-2021	997893		
92849969003	MCD-DR-02	SM 2320B-2021	997893		
92849969004	MCD-DR-03	SM 2320B-2021	997893		
92849969005	MCD-AP234-FB-1	SM 2320B-2021	997893		
92849969006	MCD-AP234-EB-1	SM 2320B-2021	997893		
92849969007	MCD-AP234-FD-1	SM 2320B-2021	998432		
92849969001	MCD-INW-03	SM 2540C-2020	998107		
92849969002	MCD-INW-04	SM 2540C-2020	998107		
92849969003	MCD-DR-02	SM 2540C-2020	998107		
92849969004	MCD-DR-03	SM 2540C-2020	998107		
92849969005	MCD-AP234-FB-1	SM 2540C-2020	998107		
92849969006	MCD-AP234-EB-1	SM 2540C-2020	998107		
92849969007	MCD-AP234-FD-1	SM 2540C-2020	998107		
92849969001	MCD-INW-03	SM 4500-S2D-2021	998402		
92849969002	MCD-INW-04	SM 4500-S2D-2021	998402		
92849969003	MCD-DR-02	SM 4500-S2D-2021	998402		
92849969004	MCD-DR-03	SM 4500-S2D-2021	998402		
92849969005	MCD-AP234-FB-1	SM 4500-S2D-2021	998402		
92849969006	MCD-AP234-EB-1	SM 4500-S2D-2021	998402		
92849969007	MCD-AP234-FD-1	SM 4500-S2D-2021	998402		
92849969001	MCD-INW-03	EPA 300.0 Rev 2.1 1993	997750		
92849969002	MCD-INW-04	EPA 300.0 Rev 2.1 1993	997750		
92849969003	MCD-DR-02	EPA 300.0 Rev 2.1 1993	997750		
92849969004	MCD-DR-03	EPA 300.0 Rev 2.1 1993	997750		
92849969005	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	997750		
92849969006	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	997750		
92849969007	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	997750		
92849969001	MCD-INW-03	EPA 3005A	998003	EPA 6020B	998238
92849969002	MCD-INW-04	EPA 3005A	998003	EPA 6020B	998238
92849969003	MCD-DR-02	EPA 3005A	998003	EPA 6020B	998238
92849969004	MCD-DR-03	EPA 3005A	998003	EPA 6020B	998238
92849969005	MCD-AP234-FB-1	EPA 3005A	998003	EPA 6020B	998238
92849969006	MCD-AP234-EB-1	EPA 3005A	998003	EPA 6020B	998238

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92849969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92849969007	MCD-AP234-FD-1	EPA 3005A	998003	EPA 6020B	998238
92849969002	MCD-INW-04	EPA 3005A	998011	EPA 6020B	999049
92849969003	MCD-DR-02	EPA 3005A	998011	EPA 6020B	999049
92849969001	MCD-INW-03	EPA 7470A	998014	EPA 7470A	998248
92849969002	MCD-INW-04	EPA 7470A	998014	EPA 7470A	998248
92849969003	MCD-DR-02	EPA 7470A	998014	EPA 7470A	998248
92849969004	MCD-DR-03	EPA 7470A	998014	EPA 7470A	998248
92849969005	MCD-AP234-FB-1	EPA 7470A	998014	EPA 7470A	998248
92849969006	MCD-AP234-EB-1	EPA 7470A	998014	EPA 7470A	998248
92849969007	MCD-AP234-FD-1	EPA 7470A	998014	EPA 7470A	998248
92849969002	MCD-INW-04	EPA 7470A	998017	EPA 7470A	998249
92849969003	MCD-DR-02	EPA 7470A	998017	EPA 7470A	998249

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92849969



92849969

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client
☐ Commercial ☐ Pace ☐ Other: _____Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: 3/17/26 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☒ N/A

Thermometer:

☒ IR Gun ID:

214

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

26

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

26

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92849969

PM: BV

Due Date: 04/01/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Met. ☐ Atlanta ☐ Kernersville ☐

Client GA. Power Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KPTU-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP3T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
1		2	1			2	1																					
2		2	1			2	1																					
3		2	1			2	1																					
4		2	1			2	1																					
5		2	1			2	1																					
6		2	1			2	1																					
7		2	1			2	1																					
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	Georgia Power - Coal Combustion Residuals	
Address:	2480 Maner Road	
	Atlanta, GA 30339	
Email:	jabraham@southernco.com	
Phone:	(470) 620-6176	Fax
Requested Due Date:	5 Day TAT	

Section B

Required Project Information:

Report To:	Joju Abraham
Copy To:	WSP
Purchase Order #:	
Project Name:	Plant McDonough AP-234 Pilot Study
	Project #. 31406440.02

Section C

Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	

1 Of

Regulatory Agency

State / Location

GA

[illegible]



May 27, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-AP234 (Post Injection)
Pace Project No.: 92852053

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Nicholas McMillan, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCD-AP234 (Post Injection)
Pace Project No.: 92852053

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92852053001	MCD-DR-03	Water	03/30/26 10:40	03/30/26 16:14
92852053002	MCD-INW-03	Water	03/30/26 12:18	03/30/26 16:14
92852053003	MCD-AP234-FD-1	Water	03/30/26 00:00	03/30/26 16:14
92852053004	MCD-DR-02	Water	03/30/26 10:35	03/30/26 16:14
92852053005	MCD-INW-04	Water	03/30/26 12:28	03/30/26 16:14
92852053006	MCD-AP234-EB-1	Water	03/30/26 10:55	03/30/26 16:14
92852053007	MCD-AP234-FB-1	Water	03/30/26 12:48	03/30/26 16:14

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92852053001	MCD-DR-03	EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92852053002	MCD-INW-03	EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92852053003	MCD-AP234-FD-1	EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92852053004	MCD-DR-02	EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
		EPA 6020B	JDM	1	PAN
92852053005	MCD-INW-04	SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
		EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
92852053006	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
		EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
92852053007	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	JCM	2	PASI-A
		EPA 6020B	JDM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A

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SAMPLE ANALYTE COUNT

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	BW, JJM1	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-DR-03		Lab ID: 92852053001		Collected: 03/30/26 10:40		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00602	mg/L	0.00200	0.000600	1	04/03/26 02:29	04/10/26 11:24	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	38.7	mg/L	5.0	5.0	1		03/31/26 13:40		
Alkalinity, Total as CaCO3	38.7	mg/L	5.0	5.0	1		03/31/26 13:40		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	0.13	mg/L	0.10	0.060	1		03/31/26 01:03	24959-67-9	M1
Fluoride	0.28	mg/L	0.10	0.050	1		03/31/26 01:03	16984-48-8	M1
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.020	0.0043	10	04/01/26 05:17	04/01/26 17:40	7440-36-0	3g
Arsenic	ND	mg/L	0.020	0.0041	10	04/01/26 05:17	04/01/26 17:40	7440-38-2	3g
Barium	0.018J	mg/L	0.050	0.0056	10	04/01/26 05:17	04/01/26 17:40	7440-39-3	3g
Beryllium	0.0011	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/02/26 19:23	7440-41-7	
Boron	4.2	mg/L	1.0	0.18	25	04/01/26 05:17	04/02/26 17:40	7440-42-8	M1
Cadmium	ND	mg/L	0.0050	0.0010	10	04/01/26 05:17	04/01/26 17:40	7440-43-9	3g
Chromium	ND	mg/L	0.050	0.0024	10	04/01/26 05:17	04/01/26 17:40	7440-47-3	3g
Cobalt	0.23	mg/L	0.050	0.0012	10	04/01/26 05:17	04/01/26 17:40	7440-48-4	
Lead	ND	mg/L	0.010	0.0027	10	04/01/26 05:17	04/01/26 17:40	7439-92-1	3g
Molybdenum	ND	mg/L	0.10	0.020	10	04/01/26 05:17	04/01/26 17:40	7439-98-7	3g
Potassium	5.7	mg/L	4.0	1.3	10	04/01/26 05:17	04/06/26 16:44	7440-09-7	
Selenium	0.011J	mg/L	0.050	0.0050	10	04/01/26 05:17	04/01/26 17:40	7782-49-2	3g
Thallium	ND	mg/L	0.0050	0.0017	10	04/01/26 05:17	04/01/26 17:40	7440-28-0	3g
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:41	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-INW-03		Lab ID: 92852053002		Collected: 03/30/26 12:18		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	ND	mg/L	0.0180	0.00540	9	04/03/26 02:29	04/10/26 11:37	7439-93-2	P4
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO ₃)	22300	mg/L	5.0	5.0	1		04/02/26 11:59		
Alkalinity, Total as CaCO ₃	22300	mg/L	5.0	5.0	1		04/02/26 11:59		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	ND	mg/L	0.10	0.060	1		03/31/26 10:25	24959-67-9	
Fluoride	0.078J	mg/L	0.10	0.050	1		03/31/26 10:25	16984-48-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.020	0.0043	10	04/01/26 05:17	04/01/26 18:27	7440-36-0	3g
Arsenic	ND	mg/L	0.020	0.0041	10	04/01/26 05:17	04/01/26 18:27	7440-38-2	3g
Barium	0.025J	mg/L	0.050	0.0056	10	04/01/26 05:17	04/01/26 18:27	7440-39-3	3g
Beryllium	ND	mg/L	0.0040	0.0015	10	04/01/26 05:17	04/01/26 18:27	7440-41-7	3g
Boron	0.89	mg/L	0.40	0.073	10	04/01/26 05:17	04/01/26 18:27	7440-42-8	
Cadmium	ND	mg/L	0.0050	0.0010	10	04/01/26 05:17	04/01/26 18:27	7440-43-9	3g
Chromium	0.0063J	mg/L	0.050	0.0024	10	04/01/26 05:17	04/01/26 18:27	7440-47-3	3g
Cobalt	0.0045J	mg/L	0.050	0.0012	10	04/01/26 05:17	04/01/26 18:27	7440-48-4	3g
Lead	ND	mg/L	0.010	0.0027	10	04/01/26 05:17	04/01/26 18:27	7439-92-1	3g
Molybdenum	ND	mg/L	0.10	0.020	10	04/01/26 05:17	04/01/26 18:27	7439-98-7	3g
Potassium	16200	mg/L	400	132	1000	04/01/26 05:17	04/02/26 18:20	7440-09-7	
Selenium	0.023J	mg/L	0.050	0.0050	10	04/01/26 05:17	04/01/26 18:27	7782-49-2	3g
Thallium	0.0080	mg/L	0.0050	0.0017	10	04/01/26 05:17	04/01/26 18:27	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:44	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-AP234-FD-1		Lab ID: 92852053003		Collected: 03/30/26 00:00		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00651	mg/L	0.00200	0.000600	1	04/03/26 02:29	04/10/26 11:40	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO ₃)	125	mg/L	5.0	5.0	1		03/31/26 14:48		
Alkalinity, Total as CaCO ₃	125	mg/L	5.0	5.0	1		03/31/26 14:48		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	0.15	mg/L	0.10	0.060	1		03/31/26 02:32	24959-67-9	
Fluoride	0.23	mg/L	0.10	0.050	1		03/31/26 02:32	16984-48-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	04/01/26 05:17	04/01/26 20:57	7440-36-0	
Arsenic	0.0035	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 20:57	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00056	1	04/01/26 05:17	04/01/26 20:57	7440-39-3	
Beryllium	0.0011	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/02/26 20:03	7440-41-7	
Boron	4.2	mg/L	1.0	0.18	25	04/01/26 05:17	04/02/26 18:27	7440-42-8	
Cadmium	0.00049J	mg/L	0.00050	0.00010	1	04/01/26 05:17	04/01/26 20:57	7440-43-9	
Chromium	0.00029J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 20:57	7440-47-3	
Cobalt	0.21	mg/L	0.0050	0.00012	1	04/01/26 05:17	04/01/26 20:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/01/26 05:17	04/01/26 20:57	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/01/26 05:17	04/01/26 20:57	7439-98-7	
Potassium	5.3	mg/L	0.40	0.13	1	04/01/26 05:17	04/06/26 17:06	7440-09-7	
Selenium	0.0083	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 20:57	7782-49-2	
Thallium	0.0010	mg/L	0.00050	0.00017	1	04/01/26 05:17	04/01/26 20:57	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:46	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-DR-02		Lab ID: 92852053004		Collected: 03/30/26 10:35		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	ND	mg/L	0.0200	0.00600	10	04/03/26 02:29	04/10/26 16:24	7439-93-2	
Lithium, Dissolved	0.00250	mg/L	0.00200	0.000600	1	04/03/26 03:21	04/10/26 17:31	7439-93-2	P4
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	7360	mg/L	5.0	5.0	1		04/02/26 12:15		
Alkalinity, Total as CaCO ₃	7360	mg/L	5.0	5.0	1		04/02/26 12:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	ND	mg/L	0.10	0.060	1		03/31/26 02:46	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		03/31/26 02:46	16984-48-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.010	0.0022	5	05/12/26 12:59	05/13/26 14:11	7440-36-0	
Arsenic	0.00048J	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 21:07	7440-38-2	
Arsenic	ND	mg/L	0.010	0.0020	5	05/12/26 12:59	05/13/26 14:11	7440-38-2	
Barium	0.19	mg/L	0.025	0.0028	5	05/12/26 12:59	05/13/26 14:11	7440-39-3	
Beryllium	ND	mg/L	0.0040	0.0015	10	04/01/26 05:17	04/01/26 18:46	7440-41-7	D3
Beryllium	ND	mg/L	0.010	0.0038	25	05/12/26 12:59	05/14/26 11:06	7440-41-7	
Boron	2.3	mg/L	0.40	0.073	10	04/01/26 05:17	04/01/26 18:46	7440-42-8	
Boron	2.5	mg/L	1.0	0.18	25	05/12/26 12:59	05/14/26 11:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00050	5	05/12/26 12:59	05/13/26 14:11	7440-43-9	
Chromium	0.0019J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 21:07	7440-47-3	
Chromium	ND	mg/L	0.12	0.0060	25	05/12/26 12:59	05/14/26 11:06	7440-47-3	
Cobalt	0.0012J	mg/L	0.0050	0.00012	1	04/01/26 05:17	04/01/26 21:07	7440-48-4	
Cobalt	0.25	mg/L	0.025	0.00060	5	05/12/26 12:59	05/13/26 14:11	7440-48-4	
Lead	ND	mg/L	0.0050	0.0014	5	05/12/26 12:59	05/13/26 14:11	7439-92-1	
Molybdenum	ND	mg/L	0.050	0.0099	5	05/12/26 12:59	05/13/26 14:11	7439-98-7	
Potassium	6310	mg/L	200	66.0	500	05/12/26 12:59	05/14/26 12:16	7440-09-7	
Selenium	0.0096	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 21:07	7782-49-2	
Selenium	0.013J	mg/L	0.025	0.0025	5	05/12/26 12:59	05/13/26 14:11	7782-49-2	
Thallium	0.013	mg/L	0.0025	0.00085	5	05/12/26 12:59	05/13/26 14:11	7440-28-0	
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.010	0.0022	5	05/12/26 13:12	05/14/26 13:17	7440-36-0	
Arsenic, Dissolved	0.00073J	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 13:57	7440-38-2	
Arsenic, Dissolved	ND	mg/L	0.010	0.0020	5	05/12/26 13:12	05/14/26 13:17	7440-38-2	
Barium, Dissolved	0.043	mg/L	0.025	0.0028	5	05/12/26 13:12	05/14/26 13:17	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/01/26 13:57	7440-41-7	
Beryllium, Dissolved	ND	mg/L	0.0020	0.00075	5	05/12/26 13:12	05/14/26 13:17	7440-41-7	
Boron, Dissolved	0.49	mg/L	0.20	0.037	5	05/12/26 13:12	05/14/26 13:17	7440-42-8	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-DR-02		Lab ID: 92852053004		Collected: 03/30/26 10:35		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Cadmium, Dissolved	ND	mg/L	0.0025	0.00050	5	05/12/26 13:12	05/14/26 13:17	7440-43-9	
Chromium, Dissolved	0.0017J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 13:57	7440-47-3	
Chromium, Dissolved	ND	mg/L	0.025	0.0012	5	05/12/26 13:12	05/14/26 13:17	7440-47-3	
Cobalt, Dissolved	0.0040J	mg/L	0.0050	0.00012	1	04/01/26 05:17	04/01/26 13:57	7440-48-4	
Cobalt, Dissolved	0.070	mg/L	0.025	0.00060	5	05/12/26 13:12	05/14/26 13:17	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0050	0.0014	5	05/12/26 13:12	05/14/26 13:17	7439-92-1	
Molybdenum, Dissolved	ND	mg/L	0.050	0.0099	5	05/12/26 13:12	05/14/26 13:17	7439-98-7	
Potassium, Dissolved	1250	mg/L	20.0	6.6	50	05/12/26 13:12	05/14/26 13:21	7440-09-7	
Selenium, Dissolved	0.010	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 13:57	7782-49-2	
Selenium, Dissolved	ND	mg/L	0.025	0.0025	5	05/12/26 13:12	05/14/26 13:17	7782-49-2	2g
Thallium, Dissolved	0.0027	mg/L	0.0025	0.00085	5	05/12/26 13:12	05/14/26 13:17	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:54	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:31	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-INW-04		Lab ID: 92852053005		Collected: 03/30/26 12:28		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00266	mg/L	0.00200	0.000600	1	04/03/26 02:29	04/10/26 11:47	7439-93-2	P4
Lithium, Dissolved	0.00508	mg/L	0.00200	0.000600	1	04/03/26 03:21	04/10/26 17:34	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	637	mg/L	5.0	5.0	1		03/31/26 16:28		
Alkalinity, Total as CaCO ₃	637	mg/L	5.0	5.0	1		03/31/26 16:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	3.3	mg/L	0.10	0.060	1		03/31/26 03:01	24959-67-9	
Fluoride	1.8	mg/L	0.10	0.050	1		03/31/26 03:01	16984-48-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	04/01/26 05:17	04/01/26 21:16	7440-36-0	
Arsenic	0.012	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 21:16	7440-38-2	
Barium	0.089	mg/L	0.0050	0.00056	1	04/01/26 05:17	04/01/26 21:16	7440-39-3	
Beryllium	0.0037	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/02/26 20:11	7440-41-7	
Boron	3.3	mg/L	2.0	0.37	50	04/01/26 05:17	04/02/26 18:43	7440-42-8	
Cadmium	0.0032	mg/L	0.00050	0.00010	1	04/01/26 05:17	04/01/26 21:16	7440-43-9	
Chromium	0.0028J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 21:16	7440-47-3	
Cobalt	2.1	mg/L	0.050	0.0012	10	04/01/26 05:17	04/01/26 18:55	7440-48-4	
Lead	0.0015	mg/L	0.0010	0.00027	1	04/01/26 05:17	04/01/26 21:16	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/01/26 05:17	04/01/26 21:16	7439-98-7	
Potassium	425	mg/L	20.0	6.6	50	04/01/26 05:17	04/02/26 18:43	7440-09-7	
Selenium	0.066	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 21:16	7782-49-2	
Thallium	0.0037	mg/L	0.00050	0.00017	1	04/01/26 05:17	04/01/26 21:16	7440-28-0	
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.0020	0.00043	1	04/01/26 05:17	04/01/26 14:06	7440-36-0	
Arsenic, Dissolved	0.0097	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 14:06	7440-38-2	
Barium, Dissolved	0.074	mg/L	0.0050	0.00056	1	04/01/26 05:17	04/01/26 14:06	7440-39-3	
Beryllium, Dissolved	0.0040	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/01/26 14:06	7440-41-7	
Boron, Dissolved	3.3	mg/L	2.0	0.37	50	04/01/26 05:17	04/01/26 16:07	7440-42-8	
Cadmium, Dissolved	0.0032	mg/L	0.00050	0.00010	1	04/01/26 05:17	04/01/26 14:06	7440-43-9	
Chromium, Dissolved	0.00050J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 14:06	7440-47-3	
Cobalt, Dissolved	2.2	mg/L	0.050	0.0012	10	04/01/26 05:17	04/01/26 15:45	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0010	0.00027	1	04/01/26 05:17	04/01/26 14:06	7439-92-1	
Molybdenum, Dissolved	ND	mg/L	0.010	0.0020	1	04/01/26 05:17	04/01/26 14:06	7439-98-7	
Potassium, Dissolved	452	mg/L	200	66.0	500	04/01/26 05:17	04/06/26 17:49	7440-09-7	1g
Selenium, Dissolved	0.055	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 14:06	7782-49-2	
Thallium, Dissolved	0.0037	mg/L	0.00050	0.00017	1	04/01/26 05:17	04/01/26 14:06	7440-28-0	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-INW-04		Lab ID: 92852053005		Collected: 03/30/26 12:28		Received: 03/30/26 16:14		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:56	7439-97-6	
WCOL 7470 Mercury, Dissolved									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 13:33	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-AP234-EB-1 Lab ID: 92852053006 Collected: 03/30/26 10:55 Received: 03/30/26 16:14 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	04/03/26 02:29	04/10/26 12:25	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/31/26 16:37		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/31/26 16:37		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		03/31/26 00:03	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		03/31/26 00:03	16984-48-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/01/26 05:17	04/01/26 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 19:05	7440-38-2	
Barium	0.0019J	mg/L	0.0050	0.00056	1	04/01/26 05:17	04/01/26 19:05	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/01/26 19:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	04/01/26 05:17	04/01/26 19:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/01/26 05:17	04/01/26 19:05	7440-43-9	
Chromium	0.00069J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/01/26 05:17	04/01/26 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/01/26 05:17	04/01/26 19:05	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/01/26 05:17	04/01/26 19:05	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/01/26 05:17	04/06/26 17:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 19:05	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00017	1	04/01/26 05:17	04/01/26 19:05	7440-28-0	
WCOL 7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 14:04	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Sample: MCD-AP234-FB-1 Lab ID: 92852053007 Collected: 03/30/26 12:48 Received: 03/30/26 16:14 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	04/03/26 02:29	04/10/26 12:28	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/31/26 16:41		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/31/26 16:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		03/31/26 00:18	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		03/31/26 00:18	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/01/26 05:17	04/01/26 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/01/26 05:17	04/01/26 19:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	04/01/26 05:17	04/01/26 19:33	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/01/26 05:17	04/01/26 19:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	04/01/26 05:17	04/01/26 19:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/01/26 05:17	04/01/26 19:33	7440-43-9	
Chromium	0.00030J	mg/L	0.0050	0.00024	1	04/01/26 05:17	04/01/26 19:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/01/26 05:17	04/01/26 19:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/01/26 05:17	04/01/26 19:33	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/01/26 05:17	04/01/26 19:33	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/01/26 05:17	04/06/26 17:14	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/01/26 05:17	04/01/26 19:33	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00017	1	04/01/26 05:17	04/01/26 19:33	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/26 10:43	04/03/26 14:06	7439-97-6	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch: 2724103

Analysis Method: EPA 6020B

QC Batch Method: 3015

Analysis Description: Metals (ICPMS) 6020B

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples:

METHOD BLANK: R4359288-1

Matrix: Water

Associated Lab Samples: 92852053004, 92852053005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	04/10/26 17:11	

LABORATORY CONTROL SAMPLE: R4359288-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0464	92.8	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4359288-4 R4359288-5

Parameter	Units	L1958740-07 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.000744	0.0500	0.0500	0.0490	0.0476	96.6	93.7	75.0-125	2.92	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch:	2724156	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

METHOD BLANK: R4359182-1 Matrix: Water

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	04/10/26 11:17	

LABORATORY CONTROL SAMPLE: R4359182-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0495	98.9	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4359182-4 R4359182-5

Parameter	Units	92852053001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00602	0.0500	0.0500	0.0541	0.0541	96.1	96.2	75.0-125	0.072	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch: 1000340 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92852053001, 92852053003, 92852053005, 92852053006, 92852053007

METHOD BLANK: 5143598 Matrix: Water
Associated Lab Samples: 92852053001, 92852053003, 92852053005, 92852053006, 92852053007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	03/31/26 10:40	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/31/26 10:40	

LABORATORY CONTROL SAMPLE: 5143599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 5143600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5143601 5143602

Parameter	Units	92851754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	318	50	50	368	352	100	69	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5143603 5143604

Parameter	Units	92851754009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	676	50	50	710	716	68	81	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch: 1000907

Analysis Method: SM 2320B-2021

QC Batch Method: SM 2320B-2021

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92852053002, 92852053004

METHOD BLANK: 5146522

Matrix: Water

Associated Lab Samples: 92852053002, 92852053004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	04/02/26 10:30	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	04/02/26 10:30	

LABORATORY CONTROL SAMPLE: 5146523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 5146524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5146525 5146526

Parameter	Units	92851832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	26.7	50	50	77.0	77.0	101	101	80-120	0	25	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch:	1000227	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007			

METHOD BLANK: 5143272

Matrix: Water

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	03/30/26 23:04	
Fluoride	mg/L	ND	0.10	0.050	03/30/26 23:04	

LABORATORY CONTROL SAMPLE: 5143273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.4	97	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5143274 5143275

Parameter	Units	92852053001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	0.13	2.5	2.5	2.3	2.4	87	92	90-110	5	10	M1
Fluoride	mg/L	0.28	2.5	2.5	3.3	3.4	122	124	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5143276 5143277

Parameter	Units	92851978002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	4.6	2.5	2.5	5.7	5.8	42	46	90-110	2	10	M1
Fluoride	mg/L	0.85	2.5	2.5	3.7	3.8	114	117	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch:	1000478	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

METHOD BLANK: 5144285

Matrix: Water

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	04/01/26 16:44	
Arsenic	mg/L	ND	0.0020	0.00041	04/01/26 16:44	
Barium	mg/L	ND	0.0050	0.00056	04/01/26 16:44	
Beryllium	mg/L	ND	0.00040	0.00015	04/01/26 16:44	
Boron	mg/L	ND	0.040	0.0073	04/01/26 16:44	
Cadmium	mg/L	ND	0.00050	0.00010	04/01/26 16:44	
Chromium	mg/L	ND	0.0050	0.00024	04/01/26 16:44	
Cobalt	mg/L	ND	0.0050	0.00012	04/01/26 16:44	
Lead	mg/L	ND	0.0010	0.00027	04/01/26 16:44	
Molybdenum	mg/L	ND	0.010	0.0020	04/01/26 16:44	
Potassium	mg/L	ND	0.40	0.13	04/06/26 16:35	
Selenium	mg/L	ND	0.0050	0.00050	04/01/26 16:44	
Thallium	mg/L	ND	0.00050	0.00017	04/01/26 16:44	

LABORATORY CONTROL SAMPLE: 5144286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	0.1	0.10	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5144287

5144288

Parameter	Units	92852053001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	108	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	100	104	75-125	4	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:											
5144287					5144288						
		92852053001	MS	MSD							
Parameter	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Barium	mg/L	0.018J	0.1	0.1	0.12	0.12	101	105	75-125	4	20
Beryllium	mg/L	0.0011	0.1	0.1	0.095	0.095	94	94	75-125	0	20
Boron	mg/L	4.2	0.1	0.1	4.4	4.4	202	240	75-125	1	20 M1
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20
Cobalt	mg/L	0.23	0.1	0.1	0.34	0.35	104	116	75-125	3	20
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	105	75-125	5	20
Molybdenum	mg/L	ND	0.1	0.1	0.094J	0.099J	94	99	75-125		20
Potassium	mg/L	5.7	1	1	6.7	6.5	105	80	75-125	4	20
Selenium	mg/L	0.011J	0.1	0.1	0.12	0.12	106	111	75-125	4	20
Thallium	mg/L	ND	0.1	0.1	0.11	0.12	109	114	75-125	4	20

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch: 1009411

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: WC 6020B MET

Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92852053004

METHOD BLANK: 5191122

Matrix: Water

Associated Lab Samples: 92852053004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	05/13/26 13:58	
Arsenic	mg/L	ND	0.0020	0.00041	05/13/26 13:58	
Barium	mg/L	ND	0.0050	0.00056	05/13/26 13:58	
Beryllium	mg/L	ND	0.00040	0.00015	05/14/26 10:53	
Boron	mg/L	ND	0.040	0.0073	05/14/26 10:53	
Cadmium	mg/L	ND	0.00050	0.00010	05/13/26 13:58	
Chromium	mg/L	0.00040J	0.0050	0.00024	05/14/26 10:53	
Cobalt	mg/L	ND	0.0050	0.00012	05/13/26 13:58	
Lead	mg/L	ND	0.0010	0.00027	05/13/26 13:58	
Molybdenum	mg/L	ND	0.010	0.0020	05/13/26 13:58	
Potassium	mg/L	ND	0.40	0.13	05/14/26 10:53	
Selenium	mg/L	ND	0.0050	0.00050	05/13/26 13:58	
Thallium	mg/L	ND	0.00050	0.00017	05/13/26 13:58	

LABORATORY CONTROL SAMPLE & LCSD: 5191123

5191124

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/L	0.1	0.098	0.10	98	101	80-120	3	20	
Arsenic	mg/L	0.1	0.097	0.097	97	97	80-120	0	20	
Barium	mg/L	0.1	0.093	0.094	93	94	80-120	1	20	
Beryllium	mg/L	0.1	0.096	0.089	96	89	80-120	7	20	
Boron	mg/L	0.1	0.097	0.091	97	91	80-120	6	20	
Cadmium	mg/L	0.1	0.10	0.10	100	104	80-120	4	20	
Chromium	mg/L	0.1	0.10	0.11	103	111	80-120	7	20	
Cobalt	mg/L	0.1	0.11	0.11	106	108	80-120	2	20	
Lead	mg/L	0.1	0.11	0.11	106	108	80-120	2	20	
Molybdenum	mg/L	0.1	0.091	0.093	91	93	80-120	1	20	
Potassium	mg/L	1	1.0	1.1	105	113	80-120	8	20	
Selenium	mg/L	0.1	0.10	0.10	100	100	80-120	0	20	
Thallium	mg/L	0.1	0.11	0.11	108	107	80-120	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch:	1000479	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET Dissolved
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92852053004, 92852053005

METHOD BLANK: 5144290 Matrix: Water

Associated Lab Samples: 92852053004, 92852053005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00054J	0.0020	0.00043	04/01/26 13:29	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	04/01/26 13:29	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	04/01/26 13:29	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	04/01/26 13:29	
Boron, Dissolved	mg/L	ND	0.040	0.0073	04/01/26 13:29	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	04/01/26 13:29	
Chromium, Dissolved	mg/L	ND	0.0050	0.00024	04/01/26 13:29	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	04/01/26 13:29	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	04/01/26 13:29	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	04/01/26 13:29	
Potassium, Dissolved	mg/L	ND	0.40	0.13	04/06/26 17:27	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	04/01/26 13:29	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	04/01/26 13:29	

LABORATORY CONTROL SAMPLE & LCSD: 5144291

Parameter	Units	5144292								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
Antimony, Dissolved	mg/L	0.1	0.10	0.11	103	105	80-120	2	20	
Arsenic, Dissolved	mg/L	0.1	0.099	0.10	99	102	80-120	3	20	
Barium, Dissolved	mg/L	0.1	0.10	0.10	100	101	80-120	1	20	
Beryllium, Dissolved	mg/L	0.1	0.11	0.11	110	112	80-120	1	20	
Boron, Dissolved	mg/L	0.1	0.11	0.11	109	111	80-120	2	20	
Cadmium, Dissolved	mg/L	0.1	0.11	0.11	107	108	80-120	1	20	
Chromium, Dissolved	mg/L	0.1	0.10	0.10	102	104	80-120	2	20	
Cobalt, Dissolved	mg/L	0.1	0.11	0.11	106	108	80-120	2	20	
Lead, Dissolved	mg/L	0.1	0.098	0.099	98	99	80-120	1	20	
Molybdenum, Dissolved	mg/L	0.1	0.098	0.098	98	98	80-120	0	20	
Potassium, Dissolved	mg/L	1	1.1	1.1	108	105	80-120	2	20	
Selenium, Dissolved	mg/L	0.1	0.11	0.11	109	114	80-120	4	20	
Thallium, Dissolved	mg/L	0.1	0.098	0.10	98	101	80-120	3	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch: 1009400

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: WC 6020B MET Dissolved

Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92852053004

METHOD BLANK: 5191029

Matrix: Water

Associated Lab Samples: 92852053004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00080J	0.0020	0.00043	05/14/26 12:21	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	05/14/26 12:21	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	05/14/26 12:21	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	05/14/26 12:21	
Boron, Dissolved	mg/L	ND	0.040	0.0073	05/14/26 12:21	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	05/14/26 12:21	
Chromium, Dissolved	mg/L	ND	0.0050	0.00024	05/14/26 12:21	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	05/14/26 12:21	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	05/14/26 12:21	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	05/14/26 12:21	
Potassium, Dissolved	mg/L	ND	0.40	0.13	05/14/26 12:21	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	05/14/26 12:21	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	05/14/26 12:21	

LABORATORY CONTROL SAMPLE: 5191030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.10	102	80-120	
Arsenic, Dissolved	mg/L	0.1	0.10	100	80-120	
Barium, Dissolved	mg/L	0.1	0.095	95	80-120	
Beryllium, Dissolved	mg/L	0.1	0.097	97	80-120	
Boron, Dissolved	mg/L	0.1	0.096	96	80-120	
Cadmium, Dissolved	mg/L	0.1	0.099	99	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	103	80-120	
Cobalt, Dissolved	mg/L	0.1	0.11	107	80-120	
Lead, Dissolved	mg/L	0.1	0.11	109	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.093	93	80-120	
Potassium, Dissolved	mg/L	1	1.2	118	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	101	80-120	
Thallium, Dissolved	mg/L	0.1	0.11	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5191031

5191032

Parameter	Units	92859446014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	2	20	
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5191031					5191032							
Parameter	Units	92859446014	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Barium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	93	94	75-125	1	20	
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.093	0.090	93	90	75-125	3	20	
Boron, Dissolved	mg/L	ND	0.1	0.1	0.097	0.095	91	90	75-125	1	20	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	2	20	
Lead, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	0	20	
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.091	0.092	91	91	75-125	0	20	
Potassium, Dissolved	mg/L	ND	1	1	1.3	1.2	104	101	75-125	3	20	
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch:	1000674	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

METHOD BLANK: 5145021

Matrix: Water

Associated Lab Samples: 92852053001, 92852053002, 92852053003, 92852053004, 92852053005, 92852053006, 92852053007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	04/03/26 13:36	

LABORATORY CONTROL SAMPLE: 5145022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5145023 5145024

Parameter	Units	92852053005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0020	100	101	80-120	0	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

QC Batch: 1000675

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: WCOL 7470 Mercury, Dissolved

Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92852053004, 92852053005

METHOD BLANK: 5145025

Matrix: Water

Associated Lab Samples: 92852053004, 92852053005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000091	04/03/26 13:23	

LABORATORY CONTROL SAMPLE & LCSD: 5145026

5145027

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury, Dissolved	mg/L	0.002	0.0020	0.0020	102	101	80-120	1	20	

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QUALIFIERS

Project: MCD-AP234 (Post Injection)
Pace Project No.: 92852053

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92852053
[1] WSP
[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

SAMPLE QUALIFIERS

Sample: 92852053002
[1] Metals (ICPMS) by Method 6020B - Dilution due to matrix
Sample: 92852053004
[1] Metals (ICPMS) by Method 6020B - 10X Dil due to high K

ANALYTE QUALIFIERS

1g A serial dilution was not analyzed on the 4-6-26 analytical run for this sample. However, a serial dilution was analyzed for this sample (for each dilution) on the original analytical run performed on 4-1-26.
2g The continuing calibration verification (CCV) for this analyte is above laboratory acceptance limits. The analyte was not detected above the reporting limit in the associated sample.
3g The result for this analyte is reported from a diluted analysis due to an internal standard failure. The reporting limits have been adjusted accordingly.

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QUALIFIERS

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-AP234 (Post Injection)

Pace Project No.: 92852053

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92852053001	MCD-DR-03	3015	2724156	EPA 6020B	2724156
92852053002	MCD-INW-03	3015	2724156	EPA 6020B	2724156
92852053003	MCD-AP234-FD-1	3015	2724156	EPA 6020B	2724156
92852053004	MCD-DR-02	3015	2724103	EPA 6020B	2724103
92852053004	MCD-DR-02	3015	2724156	EPA 6020B	2724156
92852053005	MCD-INW-04	3015	2724103	EPA 6020B	2724103
92852053005	MCD-INW-04	3015	2724156	EPA 6020B	2724156
92852053006	MCD-AP234-EB-1	3015	2724156	EPA 6020B	2724156
92852053007	MCD-AP234-FB-1	3015	2724156	EPA 6020B	2724156
92852053001	MCD-DR-03	SM 2320B-2021	1000340		
92852053002	MCD-INW-03	SM 2320B-2021	1000907		
92852053003	MCD-AP234-FD-1	SM 2320B-2021	1000340		
92852053004	MCD-DR-02	SM 2320B-2021	1000907		
92852053005	MCD-INW-04	SM 2320B-2021	1000340		
92852053006	MCD-AP234-EB-1	SM 2320B-2021	1000340		
92852053007	MCD-AP234-FB-1	SM 2320B-2021	1000340		
92852053001	MCD-DR-03	EPA 300.0 Rev 2.1 1993	1000227		
92852053002	MCD-INW-03	EPA 300.0 Rev 2.1 1993	1000227		
92852053003	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	1000227		
92852053004	MCD-DR-02	EPA 300.0 Rev 2.1 1993	1000227		
92852053005	MCD-INW-04	EPA 300.0 Rev 2.1 1993	1000227		
92852053006	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	1000227		
92852053007	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	1000227		
92852053001	MCD-DR-03	EPA 3005A	1000478	EPA 6020B	1000877
92852053002	MCD-INW-03	EPA 3005A	1000478	EPA 6020B	1000877
92852053003	MCD-AP234-FD-1	EPA 3005A	1000478	EPA 6020B	1000877
92852053004	MCD-DR-02	EPA 3005A	1000478	EPA 6020B	1000877
92852053004	MCD-DR-02	EPA 3005A	1009411	EPA 6020B	1009869
92852053005	MCD-INW-04	EPA 3005A	1000478	EPA 6020B	1000877
92852053006	MCD-AP234-EB-1	EPA 3005A	1000478	EPA 6020B	1000877
92852053007	MCD-AP234-FB-1	EPA 3005A	1000478	EPA 6020B	1000877
92852053004	MCD-DR-02	EPA 3005A	1000479	EPA 6020B	1000876
92852053004	MCD-DR-02	EPA 3005A	1009400	EPA 6020B	1009870
92852053005	MCD-INW-04	EPA 3005A	1000479	EPA 6020B	1000876
92852053001	MCD-DR-03	EPA 7470A	1000674	EPA 7470A	1001350
92852053002	MCD-INW-03	EPA 7470A	1000674	EPA 7470A	1001350
92852053003	MCD-AP234-FD-1	EPA 7470A	1000674	EPA 7470A	1001350
92852053004	MCD-DR-02	EPA 7470A	1000674	EPA 7470A	1001350
92852053005	MCD-INW-04	EPA 7470A	1000674	EPA 7470A	1001350
92852053006	MCD-AP234-EB-1	EPA 7470A	1000674	EPA 7470A	1001350

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-AP234 (Post Injection)
Pace Project No.: 92852053

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92852053007	MCD-AP234-FB-1	EPA 7470A	1000674	EPA 7470A	1001350
92852053004	MCD-DR-02	EPA 7470A	1000675	EPA 7470A	1001351
92852053005	MCD-INW-04	EPA 7470A	1000675	EPA 7470A	1001351

REPORT OF LABORATORY ANALYSIS

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

☐ Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☒ Atlanta ☐ Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

☐ Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☒ Client

Other: _____

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer: ☒ IR Gun ID: 214

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Temp should be above freezing to 6°C ☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Biological Tissue/Frozen? ☐ Yes ☐ No ☒ N/A

Type of Ice: ☒ Wet ☐ Blue ☐ None

Date/Initials Person Examining Contents: 4/30/16 gpc



MO#: 92852053

92852053

Project #:

COMMENTS/SAMPLE DISCREPANCY

1.	Chain of Custody Present?	☒ Yes ☐ No ☐ N/A
2.	Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A
3.	Short Hold Time Analysis (<72 hr.)?	☒ Yes ☐ No ☐ N/A
4.	Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A
5.	Sufficient Volume?	☒ Yes ☐ No ☐ N/A
6.	Correct Containers Used?	☒ Yes ☐ No ☐ N/A
7.	-Pace Containers Used?	☒ Yes ☐ No ☐ N/A
8.	Containers Intact?	☒ Yes ☐ No ☐ N/A
9.	Dissolved analysis: Samples Field Filtered?	☒ Yes ☐ No ☐ N/A
10.	Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A
11.	-Includes Date/Time/ID/Analysis Matrix:	☒ Yes ☐ No ☐ N/A
	Headspace in VOA Vials (>5-6mm)?	☒ Yes ☐ No ☐ N/A
	Trip Blank Present?	☒ Yes ☐ No ☐ N/A
	Trip Blank Custody Seals Present?	☒ Yes ☐ No ☐ N/A

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine.

Project #

WO#: 92852053

PM: BV

Due Date: 04/07/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

Client: GA Power Profile: 3391665 Notes

Item#	CC	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGfU-W/de-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
	1		2				2																						
	2		2				2																						
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Company Name: Georgia Power - McDonough Street Address: 241 Ralph McGill Blvd NE, Bldg 10160 Atlanta, GA 30308		Contact/Report To: Joju Abraham Phone #: E-Mail: j.abraham@southernco.com Cc E-Mail:																										
Project Name: MCD-AP-234 (Post Injection)		Invoice To: Account Payable Invoice E-Mail: georgiapowerinvoices@southernco.com Purchase Order # (if applicable): GPC82474-0004 Quote #:																										
Site Collection Info/Facility ID (as applicable):		Specify Container Size ** <table border="1"> <tr> <td>3</td><td>3</td><td>3</td><td>3</td><td>3</td> </tr> </table> Identify Container Preservative Type *** <table border="1"> <tr> <td>1</td><td>1</td><td>2</td><td>2</td><td>1</td> </tr> </table>		3	3	3	3	3	1	1	2	2	1															
3	3	3	3	3																								
1	1	2	2	1																								
Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No Level II [] Level III [] Level IV [] EQUIS [] Other []		Analysis Requested <table border="1"> <tr> <td>2320B Alkalinity, Total +Bicarbonate</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>300.0-F, Br</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>APP IV + Boron/Potassium</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Dissolved APP IV + Boron/Potassium</td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Mercury</td><td></td><td></td><td></td><td></td> </tr> </table>		2320B Alkalinity, Total +Bicarbonate					300.0-F, Br					APP IV + Boron/Potassium					Dissolved APP IV + Boron/Potassium					Mercury				
2320B Alkalinity, Total +Bicarbonate																												
300.0-F, Br																												
APP IV + Boron/Potassium																												
Dissolved APP IV + Boron/Potassium																												
Mercury																												
Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biomass (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Leachate (LL), Biosolid (BS), Other (OT)		Lab Use Only Preservative non-conformance identified for sample <table border="1"> <tr> <td>Profile / Template:</td> <td>16474</td> </tr> <tr> <td>Prelog / Bottle Ord. ID:</td> <td>EZ 3391665</td> </tr> </table>		Profile / Template:	16474	Prelog / Bottle Ord. ID:	EZ 3391665																					
Profile / Template:	16474																											
Prelog / Bottle Ord. ID:	EZ 3391665																											
Customer Sample ID		Sample Comment																										
MCD-DR-03	Matrix: WG																											
MCD-INW-03	Matrix: WG																											
MCD-AP234-FD-1	Matrix: WG																											
MCD-DR-02	Matrix: WG																											
MCD-INW-04	Matrix: WG																											
MCD-AP234-EB-1	Matrix: WG																											
MCD-AP234-FB-1	Matrix: WQ																											

APPENDIX B

Analytical Results
April 2026



April 24, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92854847001	MCD-INW-03	Water	04/14/26 11:22	04/14/26 16:33
92854847002	MCD-INW-04	Water	04/14/26 12:47	04/14/26 16:33
92854847003	MCD-DR-02	Water	04/14/26 12:54	04/14/26 16:33
92854847004	MCD-DR-03	Water	04/14/26 11:24	04/14/26 16:33
92854847005	MCD-AP234-FB-1	Water	04/14/26 14:05	04/14/26 16:33
92854847006	MCD-AP234-EB-1	Water	04/14/26 14:10	04/14/26 16:33
92854847007	MCD-AP234-FD-1	Water	04/14/26 00:00	04/14/26 16:33

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SAMPLE ANALYTE COUNT

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92854847001	MCD-INW-03	EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92854847002	MCD-INW-04	EPA 6020B	JPD, LD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92854847003	MCD-DR-02	EPA 6020B	JPD, LD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92854847004	MCD-DR-03	EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92854847005	MCD-AP234-FB-1	EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92854847006	MCD-AP234-EB-1	EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92854847007	MCD-AP234-FD-1	EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Sample: MCD-INW-03		Lab ID: 92854847001		Collected: 04/14/26 11:22		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.0180	0.00540	9	04/17/26 21:26	04/23/26 13:15	7439-93-2	P4
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	9940	mg/L	5.0	5.0	1		04/17/26 15:50		
Alkalinity, Total as CaCO ₃	9940	mg/L	5.0	5.0	1		04/17/26 15:50		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		04/22/26 02:32	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		04/22/26 02:32	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.010	0.0022	5	04/16/26 22:29	04/17/26 13:56	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0020	5	04/16/26 22:29	04/17/26 13:56	7440-38-2	
Barium	0.31	mg/L	0.025	0.0028	5	04/16/26 22:29	04/17/26 13:56	7440-39-3	M1
Beryllium	ND	mg/L	0.0020	0.00075	5	04/16/26 22:29	04/17/26 13:56	7440-41-7	
Boron	1.3	mg/L	0.20	0.037	5	04/16/26 22:29	04/17/26 13:56	7440-42-8	M1
Cadmium	ND	mg/L	0.0025	0.00050	5	04/16/26 22:29	04/17/26 13:56	7440-43-9	
Chromium	ND	mg/L	0.025	0.0012	5	04/16/26 22:29	04/17/26 13:56	7440-47-3	
Cobalt	0.082	mg/L	0.025	0.00060	5	04/16/26 22:29	04/17/26 13:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.0014	5	04/16/26 22:29	04/17/26 13:56	7439-92-1	M1
Molybdenum	ND	mg/L	0.050	0.0099	5	04/16/26 22:29	04/17/26 13:56	7439-98-7	M1
Potassium	7420	mg/L	200	66.0	500	04/16/26 22:29	04/20/26 13:51	7440-09-7	M1
Selenium	0.027	mg/L	0.025	0.0025	5	04/16/26 22:29	04/17/26 13:56	7782-49-2	M1
Thallium	0.0075	mg/L	0.0025	0.00085	5	04/16/26 22:29	04/17/26 13:56	7440-28-0	M1
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 16:37	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Sample: MCD-INW-04		Lab ID: 92854847002		Collected: 04/14/26 12:47		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B, Diss.		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium, Dissolved	0.00203	mg/L	0.00200	0.000600	1	04/20/26 08:23	04/20/26 20:40	7439-93-2	
Lithium	0.00203	mg/L	0.00200	0.000600	1	04/17/26 21:26	04/23/26 13:17	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	546	mg/L	5.0	5.0	1		04/17/26 16:11		
Alkalinity, Total as CaCO ₃	546	mg/L	5.0	5.0	1		04/17/26 16:11		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	4.3	mg/L	0.10	0.060	1		04/17/26 03:06	24959-67-9	
Fluoride	1.7	mg/L	0.10	0.050	1		04/17/26 03:06	16984-48-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	04/16/26 22:29	04/17/26 15:29	7440-36-0	
Arsenic	0.0082	mg/L	0.0020	0.00041	1	04/16/26 22:29	04/17/26 15:29	7440-38-2	
Barium	0.078	mg/L	0.0050	0.00056	1	04/16/26 22:29	04/17/26 15:29	7440-39-3	
Beryllium	0.0039	mg/L	0.00040	0.00015	1	04/16/26 22:29	04/17/26 15:29	7440-41-7	
Boron	3.0	mg/L	1.0	0.18	25	04/16/26 22:29	04/20/26 14:38	7440-42-8	
Cadmium	0.0031	mg/L	0.00050	0.00010	1	04/16/26 22:29	04/17/26 15:29	7440-43-9	
Chromium	0.0022J	mg/L	0.0050	0.00024	1	04/16/26 22:29	04/17/26 15:29	7440-47-3	
Cobalt	2.1	mg/L	0.12	0.0030	25	04/16/26 22:29	04/20/26 14:38	7440-48-4	
Lead	0.0013	mg/L	0.0010	0.00027	1	04/16/26 22:29	04/17/26 15:29	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/16/26 22:29	04/17/26 15:29	7439-98-7	
Potassium	340	mg/L	10.0	3.3	25	04/16/26 22:29	04/20/26 14:38	7440-09-7	
Selenium	0.037	mg/L	0.0050	0.00050	1	04/16/26 22:29	04/17/26 15:29	7782-49-2	
Thallium	0.0029	mg/L	0.00050	0.00017	1	04/16/26 22:29	04/17/26 15:29	7440-28-0	
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.0020	0.00043	1	04/16/26 22:29	04/20/26 17:55	7440-36-0	
Arsenic, Dissolved	0.010	mg/L	0.0020	0.00041	1	04/16/26 22:29	04/20/26 17:55	7440-38-2	
Barium, Dissolved	0.078	mg/L	0.0050	0.00056	1	04/16/26 22:29	04/20/26 17:55	7440-39-3	
Beryllium, Dissolved	0.0046	mg/L	0.0020	0.00075	5	04/16/26 22:29	04/20/26 15:53	7440-41-7	
Boron, Dissolved	3.0	mg/L	1.0	0.18	25	04/16/26 22:29	04/21/26 08:05	7440-42-8	M1
Cadmium, Dissolved	0.0031	mg/L	0.00050	0.00010	1	04/16/26 22:29	04/20/26 17:55	7440-43-9	
Chromium, Dissolved	0.0019J	mg/L	0.0050	0.00024	1	04/16/26 22:29	04/20/26 17:55	7440-47-3	
Cobalt, Dissolved	2.2	mg/L	0.12	0.0030	25	04/16/26 22:29	04/21/26 08:05	7440-48-4	M1
Lead, Dissolved	0.0010	mg/L	0.0010	0.00027	1	04/16/26 22:29	04/20/26 17:55	7439-92-1	
Molybdenum, Dissolved	ND	mg/L	0.010	0.0020	1	04/16/26 22:29	04/20/26 17:55	7439-98-7	
Potassium, Dissolved	375	mg/L	10.0	3.3	25	04/16/26 22:29	04/21/26 08:05	7440-09-7	M1
Selenium, Dissolved	0.036	mg/L	0.0050	0.00050	1	04/16/26 22:29	04/20/26 17:55	7782-49-2	M1
Thallium, Dissolved	0.0030	mg/L	0.00050	0.00017	1	04/16/26 22:29	04/20/26 17:55	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Sample: MCD-INW-04		Lab ID: 92854847002		Collected: 04/14/26 12:47		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 16:39	7439-97-6	
WCOL 7470 Mercury, Dissolved									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	04/21/26 11:51	04/21/26 15:38	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Sample: MCD-DR-02		Lab ID: 92854847003		Collected: 04/14/26 12:54		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B, Diss.									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium, Dissolved	0.00150J	mg/L	0.00200	0.000600	1	04/20/26 08:23	04/20/26 20:52	7439-93-2	J
Lithium	0.00119J	mg/L	0.00200	0.000600	1	04/17/26 21:26	04/23/26 13:20	7439-93-2	J
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	904	mg/L	5.0	5.0	1		04/18/26 16:30		
Alkalinity, Total as CaCO ₃	4460	mg/L	5.0	5.0	1		04/18/26 16:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		04/17/26 03:21	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		04/17/26 03:21	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.010	0.0022	5	04/16/26 22:29	04/17/26 15:47	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0020	5	04/16/26 22:29	04/17/26 15:47	7440-38-2	
Barium	0.28	mg/L	0.025	0.0028	5	04/16/26 22:29	04/17/26 15:47	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00075	5	04/16/26 22:29	04/17/26 15:47	7440-41-7	
Boron	2.5	mg/L	1.0	0.18	25	04/16/26 22:29	04/20/26 15:06	7440-42-8	
Cadmium	0.00056J	mg/L	0.0025	0.00050	5	04/16/26 22:29	04/17/26 15:47	7440-43-9	
Chromium	ND	mg/L	0.025	0.0012	5	04/16/26 22:29	04/17/26 15:47	7440-47-3	
Cobalt	0.37	mg/L	0.025	0.00060	5	04/16/26 22:29	04/17/26 15:47	7440-48-4	
Lead	ND	mg/L	0.0050	0.0014	5	04/16/26 22:29	04/17/26 15:47	7439-92-1	
Molybdenum	ND	mg/L	0.050	0.0099	5	04/16/26 22:29	04/17/26 15:47	7439-98-7	
Potassium	3910	mg/L	100	33.0	250	04/16/26 22:29	04/20/26 14:47	7440-09-7	
Selenium	0.0091J	mg/L	0.025	0.0025	5	04/16/26 22:29	04/17/26 15:47	7782-49-2	
Thallium	0.014	mg/L	0.0025	0.00085	5	04/16/26 22:29	04/17/26 15:47	7440-28-0	
WC 6020B MET ICPMS Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony, Dissolved	ND	mg/L	0.010	0.0022	5	04/16/26 22:29	04/20/26 18:42	7440-36-0	
Arsenic, Dissolved	ND	mg/L	0.010	0.0020	5	04/16/26 22:29	04/20/26 18:42	7440-38-2	
Barium, Dissolved	0.24	mg/L	0.025	0.0028	5	04/16/26 22:29	04/20/26 18:42	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.020	0.0075	50	04/16/26 22:29	04/21/26 08:52	7440-41-7	D3
Boron, Dissolved	2.4	mg/L	2.0	0.37	50	04/16/26 22:29	04/21/26 08:52	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.0025	0.00050	5	04/16/26 22:29	04/20/26 18:42	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.25	0.012	50	04/16/26 22:29	04/21/26 08:52	7440-47-3	D3
Cobalt, Dissolved	0.37	mg/L	0.25	0.0060	50	04/16/26 22:29	04/21/26 08:52	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0050	0.0014	5	04/16/26 22:29	04/20/26 18:42	7439-92-1	
Molybdenum, Dissolved	ND	mg/L	0.050	0.0099	5	04/16/26 22:29	04/20/26 18:42	7439-98-7	
Potassium, Dissolved	4010	mg/L	100	33.0	250	04/16/26 22:29	04/21/26 09:20	7440-09-7	
Selenium, Dissolved	ND	mg/L	0.25	0.025	50	04/16/26 22:29	04/21/26 08:52	7782-49-2	D3
Thallium, Dissolved	0.012	mg/L	0.0025	0.00085	5	04/16/26 22:29	04/20/26 18:42	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Sample: MCD-DR-02		Lab ID: 92854847003		Collected: 04/14/26 12:54		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 16:42	7439-97-6	
WCOL 7470 Mercury, Dissolved									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	04/21/26 11:51	04/21/26 15:40	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Sample: MCD-DR-03		Lab ID: 92854847004		Collected: 04/14/26 11:24		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.00744	mg/L	0.00200	0.000600	1	04/17/26 21:26	04/23/26 13:23	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	48.8	mg/L	5.0	5.0	1		04/17/26 16:21		
Alkalinity, Total as CaCO ₃	48.8	mg/L	5.0	5.0	1		04/17/26 16:21		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	0.12	mg/L	0.10	0.060	1		04/17/26 03:36	24959-67-9	
Fluoride	0.28	mg/L	0.10	0.050	1		04/17/26 03:36	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/16/26 22:29	04/17/26 15:57	7440-36-0	
Arsenic	0.0037	mg/L	0.0020	0.00041	1	04/16/26 22:29	04/17/26 15:57	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00056	1	04/16/26 22:29	04/17/26 15:57	7440-39-3	
Beryllium	0.0016	mg/L	0.00040	0.00015	1	04/16/26 22:29	04/17/26 15:57	7440-41-7	
Boron	4.2	mg/L	1.0	0.18	25	04/16/26 22:29	04/17/26 16:06	7440-42-8	
Cadmium	0.00051	mg/L	0.00050	0.00010	1	04/16/26 22:29	04/17/26 15:57	7440-43-9	
Chromium	0.00027J	mg/L	0.0050	0.00024	1	04/16/26 22:29	04/17/26 15:57	7440-47-3	
Cobalt	0.28	mg/L	0.0050	0.00012	1	04/16/26 22:29	04/17/26 15:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/16/26 22:29	04/17/26 15:57	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/16/26 22:29	04/17/26 15:57	7439-98-7	
Potassium	5.4	mg/L	0.40	0.13	1	04/16/26 22:29	04/17/26 15:57	7440-09-7	
Selenium	0.0068	mg/L	0.0050	0.00050	1	04/16/26 22:29	04/17/26 15:57	7782-49-2	
Thallium	0.00098	mg/L	0.00050	0.00017	1	04/16/26 22:29	04/17/26 15:57	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 16:44	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Sample: MCD-AP234-FB-1 Lab ID: 92854847005 Collected: 04/14/26 14:05 Received: 04/14/26 16:33 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	04/17/26 21:26	04/23/26 13:25	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		04/17/26 16:28		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		04/17/26 16:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		04/16/26 20:53	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		04/16/26 20:53	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/16/26 22:29	04/17/26 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/16/26 22:29	04/17/26 16:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	04/16/26 22:29	04/17/26 16:15	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/16/26 22:29	04/17/26 16:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	04/16/26 22:29	04/17/26 16:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/16/26 22:29	04/17/26 16:15	7440-43-9	
Chromium	0.00036J	mg/L	0.0050	0.00024	1	04/16/26 22:29	04/17/26 16:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/16/26 22:29	04/17/26 16:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/16/26 22:29	04/17/26 16:15	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/16/26 22:29	04/17/26 16:15	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/16/26 22:29	04/17/26 16:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/16/26 22:29	04/17/26 16:15	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00017	1	04/16/26 22:29	04/17/26 16:15	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 16:57	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Sample: MCD-AP234-EB-1		Lab ID: 92854847006		Collected: 04/14/26 14:10		Received: 04/14/26 16:33		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015									
Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	04/17/26 21:26	04/23/26 13:44	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		04/17/26 16:32		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		04/17/26 16:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		04/16/26 21:08	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		04/16/26 21:08	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/16/26 22:29	04/17/26 16:25	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	04/16/26 22:29	04/17/26 16:25	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	04/16/26 22:29	04/17/26 16:25	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	04/16/26 22:29	04/17/26 16:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	04/16/26 22:29	04/17/26 16:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	04/16/26 22:29	04/17/26 16:25	7440-43-9	
Chromium	0.00051J	mg/L	0.0050	0.00024	1	04/16/26 22:29	04/17/26 16:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	04/16/26 22:29	04/17/26 16:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/16/26 22:29	04/17/26 16:25	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/16/26 22:29	04/17/26 16:25	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	04/16/26 22:29	04/17/26 16:25	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	04/16/26 22:29	04/17/26 16:25	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00017	1	04/16/26 22:29	04/17/26 16:25	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 16:59	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

Sample: MCD-AP234-FD-1 Lab ID: 92854847007 Collected: 04/14/26 00:00 Received: 04/14/26 16:33 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.00700	mg/L	0.00200	0.000600	1	04/17/26 21:26	04/23/26 13:47	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	185	mg/L	5.0	5.0	1		04/17/26 16:35		
Alkalinity, Total as CaCO ₃	185	mg/L	5.0	5.0	1		04/17/26 16:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	0.12	mg/L	0.10	0.060	1		04/17/26 03:51	24959-67-9	
Fluoride	0.29	mg/L	0.10	0.050	1		04/17/26 03:51	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	04/16/26 22:29	04/17/26 16:52	7440-36-0	
Arsenic	0.0035	mg/L	0.0020	0.00041	1	04/16/26 22:29	04/17/26 16:52	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00056	1	04/16/26 22:29	04/17/26 16:52	7440-39-3	
Beryllium	0.0016	mg/L	0.00040	0.00015	1	04/16/26 22:29	04/17/26 16:52	7440-41-7	
Boron	4.2	mg/L	1.0	0.18	25	04/16/26 22:29	04/20/26 14:57	7440-42-8	
Cadmium	0.00051	mg/L	0.00050	0.00010	1	04/16/26 22:29	04/17/26 16:52	7440-43-9	
Chromium	0.00028J	mg/L	0.0050	0.00024	1	04/16/26 22:29	04/17/26 16:52	7440-47-3	
Cobalt	0.28	mg/L	0.0050	0.00012	1	04/16/26 22:29	04/17/26 16:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	04/16/26 22:29	04/17/26 16:52	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	04/16/26 22:29	04/17/26 16:52	7439-98-7	
Potassium	5.5	mg/L	0.40	0.13	1	04/16/26 22:29	04/17/26 16:52	7440-09-7	
Selenium	0.0066	mg/L	0.0050	0.00050	1	04/16/26 22:29	04/17/26 16:52	7782-49-2	
Thallium	0.00099	mg/L	0.00050	0.00017	1	04/16/26 22:29	04/17/26 16:52	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	04/17/26 11:25	04/17/26 17:02	7439-97-6	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch:	2735635	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples:

METHOD BLANK: R4363490-1 Matrix: Water

Associated Lab Samples: 92854847002, 92854847003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	04/20/26 19:11	

LABORATORY CONTROL SAMPLE: R4363490-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0509	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4363490-4 R4363490-5

Parameter	Units	L1964098-04 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0521	0.0527	104	105	75.0-125	1.17	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

QC Batch: 2735666

Analysis Method: EPA 6020B

QC Batch Method: 3015

Analysis Description: Metals (ICPMS) 6020B

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92854847001, 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

METHOD BLANK: R4364912-1

Matrix: Water

Associated Lab Samples: 92854847001, 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	04/23/26 12:16	

LABORATORY CONTROL SAMPLE: R4364912-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0484	96.8	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4364912-4 R4364912-5

Parameter	Units	L1964038-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00914	0.0500	0.0500	0.0562	0.0566	94.1	94.9	75.0-125	0.698	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch: 1004045 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92854847001, 92854847002, 92854847004, 92854847005, 92854847006, 92854847007

METHOD BLANK: 5162005 Matrix: Water
Associated Lab Samples: 92854847001, 92854847002, 92854847004, 92854847005, 92854847006, 92854847007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	04/17/26 15:33	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	04/17/26 15:33	

LABORATORY CONTROL SAMPLE: 5162006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 5162007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5163374 5163375

Parameter	Units	92853948014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	13.3	50	50	66.5	65.6	106	105	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5163376 5163377

Parameter	Units	92853948015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	22.6	50	50	72.8	72.5	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch:	1004510	Analysis Method:	SM 2320B-2021
QC Batch Method:	SM 2320B-2021	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92854847003

METHOD BLANK: 5165087 Matrix: Water
Associated Lab Samples: 92854847003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	04/18/26 12:38	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	04/18/26 12:38	

LABORATORY CONTROL SAMPLE: 5165088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 5165089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5165092 5165093

Parameter	Units	92853948027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	10.4	50	50	61.6	60.8	102	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5165101 5165102

Parameter	Units	92853950004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	21.2	50	50	71.5	70.3	101	98	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch: 1003871 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

METHOD BLANK: 5161326 Matrix: Water
Associated Lab Samples: 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	04/16/26 19:53	
Fluoride	mg/L	ND	0.10	0.050	04/16/26 19:53	

LABORATORY CONTROL SAMPLE: 5161327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.3	91	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5161328 5161329

Parameter	Units	92855011001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.2	2.2	88	88	90-110	0	10	M1
Fluoride	mg/L	0.13	2.5	2.5	2.5	2.5	94	95	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5161330 5161331

Parameter	Units	92855052001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.2	2.2	87	86	90-110	1	10	M1
Fluoride	mg/L	0.13	2.5	2.5	2.7	2.7	104	101	90-110	3	10	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch:	1004967	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92854847001

METHOD BLANK: 5167263 Matrix: Water
Associated Lab Samples: 92854847001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	04/22/26 01:36	
Fluoride	mg/L	ND	0.10	0.050	04/22/26 01:36	

LABORATORY CONTROL SAMPLE: 5167264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.7	106	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5167265 5167266

Parameter	Units	92854863001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	0.065J	2.5	2.5	2.5	2.5	97	99	90-110	2	10	
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.5	94	96	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5167267 5167268

Parameter	Units	92855657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.4	2.5	96	99	90-110	2	10	
Fluoride	mg/L	0.17	2.5	2.5	2.6	2.7	97	101	90-110	4	10	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch: 1004109 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92854847001, 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

METHOD BLANK: 5162419 Matrix: Water
Associated Lab Samples: 92854847001, 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	04/17/26 13:19	
Arsenic	mg/L	ND	0.0020	0.00041	04/17/26 13:19	
Barium	mg/L	ND	0.0050	0.00056	04/17/26 13:19	
Beryllium	mg/L	ND	0.00040	0.00015	04/17/26 13:19	
Boron	mg/L	ND	0.040	0.0073	04/17/26 13:19	
Cadmium	mg/L	ND	0.00050	0.00010	04/17/26 13:19	
Chromium	mg/L	ND	0.0050	0.00024	04/17/26 13:19	
Cobalt	mg/L	ND	0.0050	0.00012	04/17/26 13:19	
Lead	mg/L	ND	0.0010	0.00027	04/17/26 13:19	
Molybdenum	mg/L	ND	0.010	0.0020	04/17/26 13:19	
Potassium	mg/L	ND	0.40	0.13	04/17/26 13:19	
Selenium	mg/L	ND	0.0050	0.00050	04/17/26 13:19	
Thallium	mg/L	ND	0.00050	0.00017	04/17/26 13:19	

LABORATORY CONTROL SAMPLE: 5162420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	0.1	0.096	96	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.092	92	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162421 5162422

Parameter	Units	92854847001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.12	0.10	116	102	75-125	13	20	
Arsenic	mg/L	ND	0.1	0.1	0.090	0.080	89	79	75-125	12	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162421 5162422											
Parameter	Units	92854847001	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	Max
		Result	Spike	Spike							
			Conc.	Conc.	Result	Result	% Rec	% Rec			RPD
Barium	mg/L	0.31	0.1	0.1	0.46	0.40	150	91	75-125	14	20 M1
Beryllium	mg/L	ND	0.1	0.1	0.10	0.087	100	87	75-125	13	20
Boron	mg/L	1.3	0.1	0.1	1.5	1.3	175	-12	75-125	14	20 M1
Cadmium	mg/L	ND	0.1	0.1	0.11	0.094	107	94	75-125	13	20
Chromium	mg/L	ND	0.1	0.1	0.12	0.10	115	100	75-125	14	20
Cobalt	mg/L	0.082	0.1	0.1	0.19	0.17	111	87	75-125	13	20
Lead	mg/L	ND	0.1	0.1	0.13	0.12	134	117	75-125	14	20 M1
Molybdenum	mg/L	ND	0.1	0.1	0.14	0.12	130	110	75-125	15	20 M1
Potassium	mg/L	7420	1	1	7690	8330	27300	91000	75-125	8	20 M1
Selenium	mg/L	0.027	0.1	0.1	0.11	0.093	78	66	75-125	12	20 M1
Thallium	mg/L	0.0075	0.1	0.1	0.14	0.12	133	114	75-125	15	20 M1

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch:	1004097	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET Dissolved
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92854847002, 92854847003

METHOD BLANK: 5162362 Matrix: Water

Associated Lab Samples: 92854847002, 92854847003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00095J	0.0020	0.00043	04/20/26 15:34	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	04/20/26 15:34	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	04/20/26 15:34	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	04/20/26 15:34	
Boron, Dissolved	mg/L	ND	0.040	0.0073	04/20/26 15:34	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	04/20/26 15:34	
Chromium, Dissolved	mg/L	ND	0.0050	0.00024	04/20/26 15:34	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	04/20/26 15:34	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	04/20/26 15:34	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	04/20/26 15:34	
Potassium, Dissolved	mg/L	ND	0.40	0.13	04/20/26 15:34	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	04/20/26 15:34	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	04/20/26 15:34	

LABORATORY CONTROL SAMPLE: 5162363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.10	102	80-120	
Arsenic, Dissolved	mg/L	0.1	0.094	94	80-120	
Barium, Dissolved	mg/L	0.1	0.099	99	80-120	
Beryllium, Dissolved	mg/L	0.1	0.10	100	80-120	
Boron, Dissolved	mg/L	0.1	0.10	100	80-120	
Cadmium, Dissolved	mg/L	0.1	0.10	101	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	104	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	101	80-120	
Lead, Dissolved	mg/L	0.1	0.10	100	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.096	96	80-120	
Potassium, Dissolved	mg/L	1	1.1	106	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	100	80-120	
Thallium, Dissolved	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162364 5162365

Parameter	Units	92854847002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20	
Arsenic, Dissolved	mg/L	0.010	0.1	0.1	0.12	0.12	110	113	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92854847

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162364 5162365											
Parameter	Units	92854847002	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max
		Result	Spike Conc.	Spike Conc.							
Barium, Dissolved	mg/L	0.078	0.1	0.1	0.18	0.18	102	103	75-125	0	20
Beryllium, Dissolved	mg/L	0.0039	0.1	0.1	0.096	0.10	92	95	75-125	3	20
Boron, Dissolved	mg/L	3.0	0.1	0.1	3.0	3.1	24	90	75-125	2	20 M1
Cadmium, Dissolved	mg/L	0.0031	0.1	0.1	0.095	0.096	92	93	75-125	1	20
Chromium, Dissolved	mg/L	0.0019J	0.1	0.1	0.090	0.090	88	88	75-125	0	20
Cobalt, Dissolved	mg/L	2.2	0.1	0.1	2.2	2.3	24	101	75-125	3	20 M1
Lead, Dissolved	mg/L	0.0010	0.1	0.1	0.11	0.11	106	106	75-125	0	20
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.11	0.11	108	109	75-125	1	20
Potassium, Dissolved	mg/L	375	1	1	357	369	-1860	-672	75-125	3	20 M1
Selenium, Dissolved	mg/L	0.036	0.1	0.1	0.10	0.10	68	68	75-125	1	20 M1
Thallium, Dissolved	mg/L	0.0030	0.1	0.1	0.11	0.11	106	106	75-125	0	20

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch:	1003988	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92854847001, 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

METHOD BLANK: 5161796 Matrix: Water
Associated Lab Samples: 92854847001, 92854847002, 92854847003, 92854847004, 92854847005, 92854847006, 92854847007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	04/17/26 16:21	

LABORATORY CONTROL SAMPLE: 5161797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0017	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5161800 5161801

Parameter	Units	92854847004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0017	0.0017	83	81	80-120	2	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

QC Batch: 1004692 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: WCOL 7470 Mercury, Dissolved
Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92854847002, 92854847003

METHOD BLANK: 5165735 Matrix: Water

Associated Lab Samples: 92854847002, 92854847003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000091	04/21/26 15:33	

LABORATORY CONTROL SAMPLE: 5165736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.002	0.0019	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5165737 5165738

Parameter	Units	92855052002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.002	0.002	0.0019	0.0019	93	92	80-120	1	20	

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QUALIFIERS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92854847
[1] WSP
[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

SAMPLE QUALIFIERS

Sample: 92854847001
[1] Metals (ICPMS) by Method 6020B - Dilution due to matrix

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92854847

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92854847001	MCD-INW-03	3015	2735666	EPA 6020B	2735666
92854847002	MCD-INW-04	3015	2735635	EPA 6020B	2735635
92854847002	MCD-INW-04	3015	2735666	EPA 6020B	2735666
92854847003	MCD-DR-02	3015	2735635	EPA 6020B	2735635
92854847003	MCD-DR-02	3015	2735666	EPA 6020B	2735666
92854847004	MCD-DR-03	3015	2735666	EPA 6020B	2735666
92854847005	MCD-AP234-FB-1	3015	2735666	EPA 6020B	2735666
92854847006	MCD-AP234-EB-1	3015	2735666	EPA 6020B	2735666
92854847007	MCD-AP234-FD-1	3015	2735666	EPA 6020B	2735666
92854847001	MCD-INW-03	SM 2320B-2021	1004045		
92854847002	MCD-INW-04	SM 2320B-2021	1004045		
92854847003	MCD-DR-02	SM 2320B-2021	1004510		
92854847004	MCD-DR-03	SM 2320B-2021	1004045		
92854847005	MCD-AP234-FB-1	SM 2320B-2021	1004045		
92854847006	MCD-AP234-EB-1	SM 2320B-2021	1004045		
92854847007	MCD-AP234-FD-1	SM 2320B-2021	1004045		
92854847001	MCD-INW-03	EPA 300.0 Rev 2.1 1993	1004967		
92854847002	MCD-INW-04	EPA 300.0 Rev 2.1 1993	1003871		
92854847003	MCD-DR-02	EPA 300.0 Rev 2.1 1993	1003871		
92854847004	MCD-DR-03	EPA 300.0 Rev 2.1 1993	1003871		
92854847005	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	1003871		
92854847006	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	1003871		
92854847007	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	1003871		
92854847001	MCD-INW-03	EPA 3005A	1004109	EPA 6020B	1004616
92854847002	MCD-INW-04	EPA 3005A	1004109	EPA 6020B	1004616
92854847003	MCD-DR-02	EPA 3005A	1004109	EPA 6020B	1004616
92854847004	MCD-DR-03	EPA 3005A	1004109	EPA 6020B	1004616
92854847005	MCD-AP234-FB-1	EPA 3005A	1004109	EPA 6020B	1004616
92854847006	MCD-AP234-EB-1	EPA 3005A	1004109	EPA 6020B	1004616
92854847007	MCD-AP234-FD-1	EPA 3005A	1004109	EPA 6020B	1004616
92854847002	MCD-INW-04	EPA 3005A	1004097	EPA 6020B	1004999
92854847003	MCD-DR-02	EPA 3005A	1004097	EPA 6020B	1004999
92854847001	MCD-INW-03	EPA 7470A	1003988	EPA 7470A	1004504
92854847002	MCD-INW-04	EPA 7470A	1003988	EPA 7470A	1004504
92854847003	MCD-DR-02	EPA 7470A	1003988	EPA 7470A	1004504
92854847004	MCD-DR-03	EPA 7470A	1003988	EPA 7470A	1004504
92854847005	MCD-AP234-FB-1	EPA 7470A	1003988	EPA 7470A	1004504
92854847006	MCD-AP234-EB-1	EPA 7470A	1003988	EPA 7470A	1004504
92854847007	MCD-AP234-FD-1	EPA 7470A	1003988	EPA 7470A	1004504
92854847002	MCD-INW-04	EPA 7470A	1004692	EPA 7470A	1005181
92854847003	MCD-DR-02	EPA 7470A	1004692	EPA 7470A	1005181

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92854847

Courier:

☐ Commercial☐ Fed Ex☐ UPS☐ USPS☒ Client☐ Pace☐ Other: _____

92854847

Custody Seal Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☐ No☒ N/ADate/Initials Person Examining Contents: SG 4/11/26

Packing Material:

☒ Bubble Wrap☐ Bubble Bags☐ None☐ Other

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Thermometer:

☒ IR Gun ID: 083

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

5.0

Correction Factor:

Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

5.0USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A		
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.	
Dissolved analysis: Samples Field Filtered?	☒ Yes ☐ No ☐ N/A	8.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WG/WQ</u>			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92854847

PM: BV

Due Date: 04/22/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client GA Power

Profile/EZ (Circle one)

Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP2U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3F	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																													
1	2					2	2	2	2																				
2	2					2	2	2	2																				
3	2					2	2	2	2																				
4	2					2	2	2	2																				
5	2					2	2	2	2																				
6	2					2	2	2	2																				
7	2					2	2	2	2																				
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

APPENDIX B

Analytical Results
May 2026



May 19, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Nicholas McMillan, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92858878001	MCD-INW-03	Water	05/06/26 10:52	05/06/26 16:44
92858878002	MCD-INW-04	Water	05/06/26 12:24	05/06/26 16:44
92858878003	MCD-DR-02	Water	05/06/26 12:32	05/06/26 16:44
92858878004	MCD-DR-03	Water	05/06/26 11:07	05/06/26 16:44
92858878005	MCD-AP234-FB-1	Water	05/06/26 13:10	05/06/26 16:44
92858878006	MCD-AP234-FD-1	Water	05/06/26 00:00	05/06/26 16:44
92858878007	MCD-AP234-EB-1	Water	05/06/26 11:00	05/06/26 16:44

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92858878001	MCD-INW-03	EPA 6020B	SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	LNV	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92858878002	MCD-INW-04	EPA 6020B	JPD, SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	LNV	13	PASI-WC
		EPA 6020B	JJM1	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92858878003	MCD-DR-02	EPA 6020B	JPD, SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	LNV	13	PASI-WC
		EPA 6020B	JJM1	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92858878004	MCD-DR-03	EPA 6020B	SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	LNV	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92858878005	MCD-AP234-FB-1	EPA 6020B	SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	LNV	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92858878006	MCD-AP234-FD-1	EPA 6020B	SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A
		EPA 6020B	LNV	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92858878007	MCD-AP234-EB-1	EPA 6020B	SJM	1	PAN
		SM 2320B-2021	SMS	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	2	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	LNV	13	PASI-WC
		EPA 7470A	DH	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-INW-03		Lab ID: 92858878001		Collected: 05/06/26 10:52		Received: 05/06/26 16:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	ND	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 12:22	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	13500	mg/L	5.0	5.0	1		05/13/26 11:53		
Alkalinity, Total as CaCO3	13500	mg/L	5.0	5.0	1		05/13/26 11:53		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	10.4	mg/L	1.2	0.72	12		05/08/26 15:01	24959-67-9	M1
Fluoride	ND	mg/L	0.10	0.050	1		05/08/26 01:18	16984-48-8	M1
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.10	0.022	50	05/09/26 06:39	05/12/26 14:54	7440-36-0	B0,D1
Arsenic	ND	mg/L	0.10	0.020	50	05/09/26 06:39	05/12/26 14:54	7440-38-2	
Barium	ND	mg/L	0.25	0.028	50	05/09/26 06:39	05/12/26 14:54	7440-39-3	
Beryllium	ND	mg/L	0.020	0.0075	50	05/09/26 06:39	05/12/26 14:54	7440-41-7	
Boron	1.2J	mg/L	2.0	0.37	50	05/09/26 06:39	05/12/26 14:54	7440-42-8	
Cadmium	ND	mg/L	0.025	0.0050	50	05/09/26 06:39	05/12/26 14:54	7440-43-9	
Chromium	ND	mg/L	0.25	0.012	50	05/09/26 06:39	05/12/26 14:54	7440-47-3	
Cobalt	ND	mg/L	0.25	0.0060	50	05/09/26 06:39	05/12/26 14:54	7440-48-4	
Lead	ND	mg/L	0.050	0.014	50	05/09/26 06:39	05/12/26 14:54	7439-92-1	
Molybdenum	ND	mg/L	0.50	0.099	50	05/09/26 06:39	05/12/26 14:54	7439-98-7	
Potassium	10700	mg/L	200	66.0	500	05/09/26 06:39	05/12/26 15:45	7440-09-7	
Selenium	ND	mg/L	0.25	0.025	50	05/09/26 06:39	05/12/26 14:54	7782-49-2	
Thallium	ND	mg/L	0.025	0.0085	50	05/09/26 06:39	05/12/26 14:54	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mq/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:31	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-INW-04		Lab ID: 92858878002		Collected: 05/06/26 12:24		Received: 05/06/26 16:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00339	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 12:41	7439-93-2	
Lithium, Dissolved	0.00205	mg/L	0.00200	0.000600	1	05/10/26 14:45	05/12/26 17:37	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	441	mg/L	5.0	5.0	1		05/13/26 00:28		
Alkalinity, Total as CaCO3	441	mg/L	5.0	5.0	1		05/13/26 00:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	1.8	mg/L	0.10	0.050	1		05/08/26 02:01	16984-48-8	M1
Bromide	3.6	mg/L	0.10	0.060	1		05/08/26 02:01	24959-67-9	M1
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.020	0.0043	10	05/09/26 06:39	05/12/26 16:31	7440-36-0	B,B0, D1
Arsenic	0.0065J	mg/L	0.020	0.0041	10	05/09/26 06:39	05/12/26 16:31	7440-38-2	
Barium	0.068	mg/L	0.050	0.0056	10	05/09/26 06:39	05/12/26 16:31	7440-39-3	
Beryllium	0.0041	mg/L	0.0040	0.0015	10	05/09/26 06:39	05/12/26 16:31	7440-41-7	
Boron	3.1	mg/L	0.40	0.073	10	05/09/26 06:39	05/12/26 16:31	7440-42-8	
Cadmium	0.0033J	mg/L	0.0050	0.0010	10	05/09/26 06:39	05/12/26 16:31	7440-43-9	
Chromium	ND	mg/L	0.050	0.0024	10	05/09/26 06:39	05/12/26 16:31	7440-47-3	
Cobalt	2.1	mg/L	0.050	0.0012	10	05/09/26 06:39	05/12/26 16:31	7440-48-4	
Lead	ND	mg/L	0.010	0.0027	10	05/09/26 06:39	05/12/26 16:31	7439-92-1	
Molybdenum	ND	mg/L	0.10	0.020	10	05/09/26 06:39	05/12/26 16:31	7439-98-7	
Potassium	333	mg/L	4.0	1.3	10	05/09/26 06:39	05/12/26 16:31	7440-09-7	
Selenium	0.052	mg/L	0.050	0.0050	10	05/09/26 06:39	05/12/26 16:31	7782-49-2	
Thallium	0.0028J	mg/L	0.0050	0.0017	10	05/09/26 06:39	05/12/26 16:31	7440-28-0	
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.0020	0.00043	1	05/09/26 06:39	05/11/26 17:53	7440-36-0	B
Arsenic, Dissolved	0.0052	mg/L	0.0020	0.00041	1	05/09/26 06:39	05/11/26 17:53	7440-38-2	
Barium, Dissolved	0.064	mg/L	0.0050	0.00056	1	05/09/26 06:39	05/11/26 17:53	7440-39-3	
Beryllium, Dissolved	0.0036J	mg/L	0.0040	0.0015	10	05/09/26 06:39	05/13/26 13:41	7440-41-7	
Boron, Dissolved	3.1	mg/L	0.40	0.073	10	05/09/26 06:39	05/13/26 13:41	7440-42-8	
Cadmium, Dissolved	0.0029	mg/L	0.00050	0.00010	1	05/09/26 06:39	05/11/26 17:53	7440-43-9	
Chromium, Dissolved	0.00045J	mg/L	0.0050	0.00024	1	05/09/26 06:39	05/11/26 17:53	7440-47-3	
Cobalt, Dissolved	2.1	mg/L	0.050	0.0012	10	05/09/26 06:39	05/13/26 13:41	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0010	0.00027	1	05/09/26 06:39	05/11/26 17:53	7439-92-1	
Molybdenum, Dissolved	ND	mg/L	0.010	0.0020	1	05/09/26 06:39	05/11/26 17:53	7439-98-7	
Potassium, Dissolved	337	mg/L	4.0	1.3	10	05/09/26 06:39	05/13/26 13:41	7440-09-7	
Selenium, Dissolved	0.062	mg/L	0.0050	0.00050	1	05/09/26 06:39	05/11/26 17:53	7782-49-2	
Thallium, Dissolved	0.0026J	mg/L	0.0050	0.0017	10	05/09/26 06:39	05/13/26 13:41	7440-28-0	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-INW-04		Lab ID: 92858878002		Collected: 05/06/26 12:24		Received: 05/06/26 16:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:39	7439-97-6	
WCOL 7470 Mercury, Dissolved									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 14:43	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-DR-02		Lab ID: 92858878003		Collected: 05/06/26 12:32		Received: 05/06/26 16:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015									
Pace National - Mt. Juliet									
Lithium	0.00187J	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 12:44	7439-93-2	J
Lithium, Dissolved	0.00115J	mg/L	0.00200	0.000600	1	05/10/26 14:45	05/12/26 17:40	7439-93-2	J
2320B Alkalinity									
Analytical Method: SM 2320B-2021									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	2250	mg/L	5.0	5.0	1		05/13/26 00:39		
Alkalinity, Total as CaCO ₃	2250	mg/L	5.0	5.0	1		05/13/26 00:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Bromide	1.6	mg/L	0.10	0.060	1		05/08/26 02:45	24959-67-9	
Fluoride	0.24	mg/L	0.10	0.050	1		05/08/26 02:45	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.040	0.0086	20	05/09/26 06:39	05/12/26 16:15	7440-36-0	
Arsenic	ND	mg/L	0.040	0.0082	20	05/09/26 06:39	05/12/26 16:15	7440-38-2	
Barium	0.17	mg/L	0.10	0.011	20	05/09/26 06:39	05/12/26 16:15	7440-39-3	B, B0, D1
Beryllium	ND	mg/L	0.0080	0.0030	20	05/09/26 06:39	05/12/26 16:15	7440-41-7	
Boron	2.9	mg/L	0.80	0.15	20	05/09/26 06:39	05/12/26 16:15	7440-42-8	M1
Cadmium	ND	mg/L	0.010	0.0020	20	05/09/26 06:39	05/12/26 16:15	7440-43-9	
Chromium	ND	mg/L	0.10	0.0048	20	05/09/26 06:39	05/12/26 16:15	7440-47-3	
Cobalt	0.11	mg/L	0.10	0.0024	20	05/09/26 06:39	05/12/26 16:15	7440-48-4	
Lead	ND	mg/L	0.020	0.0054	20	05/09/26 06:39	05/12/26 16:15	7439-92-1	
Molybdenum	ND	mg/L	0.20	0.040	20	05/09/26 06:39	05/12/26 16:15	7439-98-7	
Potassium	2080	mg/L	20.0	6.6	50	05/09/26 06:39	05/12/26 15:04	7440-09-7	M1
Selenium	ND	mg/L	0.10	0.010	20	05/09/26 06:39	05/12/26 16:15	7782-49-2	
Thallium	0.0087J	mg/L	0.010	0.0034	20	05/09/26 06:39	05/12/26 16:15	7440-28-0	
WC 6020B MET ICPMS Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - West Columbia									
Antimony, Dissolved	ND	mg/L	0.0020	0.00043	1	05/09/26 06:39	05/11/26 17:57	7440-36-0	
Arsenic, Dissolved	ND	mg/L	0.0020	0.00041	1	05/09/26 06:39	05/11/26 17:57	7440-38-2	
Barium, Dissolved	0.19	mg/L	0.0050	0.00056	1	05/09/26 06:39	05/11/26 17:57	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.0040	0.0015	10	05/09/26 06:39	05/13/26 13:45	7440-41-7	
Boron, Dissolved	3.0	mg/L	0.40	0.073	10	05/09/26 06:39	05/13/26 13:45	7440-42-8	
Cadmium, Dissolved	0.00016J	mg/L	0.00050	0.00010	1	05/09/26 06:39	05/11/26 17:57	7440-43-9	
Chromium, Dissolved	0.00077J	mg/L	0.0050	0.00024	1	05/09/26 06:39	05/11/26 17:57	7440-47-3	B
Cobalt, Dissolved	0.12	mg/L	0.0050	0.00012	1	05/09/26 06:39	05/11/26 17:57	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0010	0.00027	1	05/09/26 06:39	05/11/26 17:57	7439-92-1	
Molybdenum, Dissolved	ND	mg/L	0.010	0.0020	1	05/09/26 06:39	05/11/26 17:57	7439-98-7	
Potassium, Dissolved	2130	mg/L	20.0	6.6	50	05/09/26 06:39	05/14/26 10:49	7440-09-7	
Selenium, Dissolved	0.0045J	mg/L	0.0050	0.00050	1	05/09/26 06:39	05/11/26 17:57	7782-49-2	
Thallium, Dissolved	0.0084	mg/L	0.0050	0.0017	10	05/09/26 06:39	05/13/26 13:45	7440-28-0	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-DR-02		Lab ID: 92858878003		Collected: 05/06/26 12:32		Received: 05/06/26 16:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:46	7439-97-6	
WCOL 7470 Mercury, Dissolved									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 14:45	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-DR-03		Lab ID: 92858878004		Collected: 05/06/26 11:07		Received: 05/06/26 16:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015									
Pace National - Mt. Juliet									
Lithium	0.00754	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 13:01	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	30.8	mg/L	5.0	5.0	1		05/13/26 00:54		
Alkalinity, Total as CaCO3	30.8	mg/L	5.0	5.0	1		05/13/26 00:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Bromide	0.13	mg/L	0.10	0.060	1		05/08/26 02:59	24959-67-9	
Fluoride	0.19	mg/L	0.10	0.050	1		05/08/26 02:59	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	05/09/26 06:39	05/12/26 15:48	7440-36-0	B0,D1
Arsenic	0.0023	mg/L	0.0020	0.00041	1	05/09/26 06:39	05/12/26 15:48	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00056	1	05/09/26 06:39	05/12/26 15:48	7440-39-3	
Beryllium	0.0013	mg/L	0.00040	0.00015	1	05/09/26 06:39	05/12/26 15:48	7440-41-7	
Boron	3.9	mg/L	2.0	0.37	50	05/09/26 06:39	05/12/26 15:32	7440-42-8	
Cadmium	0.00037J	mg/L	0.00050	0.00010	1	05/09/26 06:39	05/12/26 15:48	7440-43-9	
Chromium	0.00033J	mg/L	0.0050	0.00024	1	05/09/26 06:39	05/12/26 15:48	7440-47-3	
Cobalt	0.20	mg/L	0.0050	0.00012	1	05/09/26 06:39	05/12/26 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	05/09/26 06:39	05/12/26 15:48	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	05/09/26 06:39	05/12/26 15:48	7439-98-7	
Potassium	5.4	mg/L	0.40	0.13	1	05/09/26 06:39	05/12/26 15:48	7440-09-7	
Selenium	0.0057	mg/L	0.0050	0.00050	1	05/09/26 06:39	05/12/26 15:48	7782-49-2	
Thallium	0.00086	mg/L	0.00050	0.00017	1	05/09/26 06:39	05/12/26 15:48	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mq/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:49	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-AP234-FB-1 Lab ID: 92858878005 Collected: 05/06/26 13:10 Received: 05/06/26 16:44 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 13:04	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/14/26 09:11		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/14/26 09:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		05/08/26 01:04	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		05/08/26 01:04	16984-48-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	05/09/26 06:39	05/12/26 15:51	7440-36-0	B0,D1
Arsenic	ND	mg/L	0.0020	0.00041	1	05/09/26 06:39	05/12/26 15:51	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	05/09/26 06:39	05/12/26 15:51	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	05/09/26 06:39	05/12/26 15:51	7440-41-7	
Boron	0.047	mg/L	0.040	0.0073	1	05/09/26 06:39	05/12/26 15:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/09/26 06:39	05/12/26 15:51	7440-43-9	
Chromium	0.00034J	mg/L	0.0050	0.00024	1	05/09/26 06:39	05/12/26 15:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	05/09/26 06:39	05/12/26 15:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	05/09/26 06:39	05/12/26 15:51	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	05/09/26 06:39	05/12/26 15:51	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	05/09/26 06:39	05/12/26 15:51	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	05/09/26 06:39	05/12/26 15:51	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00017	1	05/09/26 06:39	05/12/26 15:51	7440-28-0	
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:51	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-AP234-FD-1 Lab ID: 92858878006 Collected: 05/06/26 00:00 Received: 05/06/26 16:44 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.00756	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 13:07	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	35.5	mg/L	5.0	5.0	1		05/13/26 10:53		
Alkalinity, Total as CaCO ₃	35.5	mg/L	5.0	5.0	1		05/13/26 10:53		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	0.13	mg/L	0.10	0.060	1		05/08/26 03:14	24959-67-9	
Fluoride	0.23	mg/L	0.10	0.050	1		05/08/26 03:14	16984-48-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	05/09/26 06:39	05/12/26 15:54	7440-36-0	
Arsenic	0.0027	mg/L	0.0020	0.00041	1	05/09/26 06:39	05/12/26 15:54	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00056	1	05/09/26 06:39	05/12/26 15:54	7440-39-3	
Beryllium	0.0016	mg/L	0.00040	0.00015	1	05/09/26 06:39	05/12/26 15:54	7440-41-7	
Boron	4.0	mg/L	2.0	0.37	50	05/09/26 06:39	05/12/26 15:38	7440-42-8	
Cadmium	0.00041J	mg/L	0.00050	0.00010	1	05/09/26 06:39	05/12/26 15:54	7440-43-9	
Chromium	0.00099J	mg/L	0.0050	0.00024	1	05/09/26 06:39	05/12/26 15:54	7440-47-3	
Cobalt	0.24	mg/L	0.0050	0.00012	1	05/09/26 06:39	05/12/26 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	05/09/26 06:39	05/12/26 15:54	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	05/09/26 06:39	05/12/26 15:54	7439-98-7	
Potassium	5.5	mg/L	0.40	0.13	1	05/09/26 06:39	05/12/26 15:54	7440-09-7	
Selenium	0.0069	mg/L	0.0050	0.00050	1	05/09/26 06:39	05/12/26 15:54	7782-49-2	
Thallium	0.00086	mg/L	0.00050	0.00017	1	05/09/26 06:39	05/12/26 15:54	7440-28-0	
WCOL 7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:54	7439-97-6	

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ANALYTICAL RESULTS

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Sample: MCD-AP234-EB-1 Lab ID: 92858878007 Collected: 05/06/26 11:00 Received: 05/06/26 16:44 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	05/10/26 14:17	05/12/26 13:10	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		05/14/26 09:15		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		05/14/26 09:15		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		05/08/26 00:49	24959-67-9	
Fluoride	ND	mg/L	0.10	0.050	1		05/08/26 00:49	16984-48-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	05/09/26 06:39	05/12/26 15:57	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	05/09/26 06:39	05/12/26 15:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	05/09/26 06:39	05/12/26 15:57	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	05/09/26 06:39	05/12/26 15:57	7440-41-7	
Boron	0.058	mg/L	0.040	0.0073	1	05/09/26 06:39	05/12/26 15:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/09/26 06:39	05/12/26 15:57	7440-43-9	
Chromium	0.00088J	mg/L	0.0050	0.00024	1	05/09/26 06:39	05/12/26 15:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	05/09/26 06:39	05/12/26 15:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00027	1	05/09/26 06:39	05/12/26 15:57	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0020	1	05/09/26 06:39	05/12/26 15:57	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	05/09/26 06:39	05/12/26 15:57	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	05/09/26 06:39	05/12/26 15:57	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00017	1	05/09/26 06:39	05/12/26 15:57	7440-28-0	
WCOL 7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/08/26 12:05	05/08/26 15:57	7439-97-6	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

QC Batch:	2750839	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples:

METHOD BLANK: R4372983-1 Matrix: Water

Associated Lab Samples: 92858878002, 92858878003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	05/12/26 16:13	

LABORATORY CONTROL SAMPLE: R4372983-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0521	104	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4372983-4 R4372983-5

Parameter	Units	L1971792-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.178	0.0500	0.0500	0.225	0.224	93.5	91.9	75.0-125	0.364	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

QC Batch:	2750856	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

METHOD BLANK: R4372800-2 Matrix: Water
Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	05/12/26 12:11	

LABORATORY CONTROL SAMPLE: R4372800-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0486	97.2	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4372800-5 R4372800-6

Parameter	Units	92858878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0591	0.0615	118	123	75.0-125	3.90	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

QC Batch: 1009440 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92858878002, 92858878003, 92858878004

METHOD BLANK: 5191336 Matrix: Water
Associated Lab Samples: 92858878002, 92858878003, 92858878004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	05/12/26 21:55	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	05/12/26 21:55	

LABORATORY CONTROL SAMPLE: 5191337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.6	105	80-120	

LABORATORY CONTROL SAMPLE: 5191338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5191339 5191340

Parameter	Units	92857481003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	ND	50	50	50.1	51.3	92	94	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5191341 5191342

Parameter	Units	92857481011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	119	50	50	161	166	85	95	80-120	3	25	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

QC Batch: 1009613 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92858878001, 92858878006

METHOD BLANK: 5192341 Matrix: Water

Associated Lab Samples: 92858878001, 92858878006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	05/13/26 10:38	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	05/13/26 10:38	

LABORATORY CONTROL SAMPLE: 5192342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 5192343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	55.0	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5192344 5192345

Parameter	Units	92858878006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	35.5	50	50	87.0	82.0	103	93	80-120	6	25	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

QC Batch: 1009761 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92858878005, 92858878007

METHOD BLANK: 5193333 Matrix: Water

Associated Lab Samples: 92858878005, 92858878007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	05/14/26 08:54	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	05/14/26 08:54	

LABORATORY CONTROL SAMPLE: 5193334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 5193335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.5	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5193336 5193337

Parameter	Units	92857714001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	63.1	50	50	113	111	100	96	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5193338 5193339

Parameter	Units	92857714002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	263	50	50	315	309	103	92	80-120	2	25	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

QC Batch:	1008622	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

METHOD BLANK: 5187171 Matrix: Water
Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	05/07/26 23:51	
Fluoride	mg/L	ND	0.10	0.050	05/07/26 23:51	

LABORATORY CONTROL SAMPLE: 5187172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.4	96	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187173 5187174

Parameter	Units	92858878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	10.4	2.5	2.5	ND	ND	-418	-418	90-110		10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187175 5187176

Parameter	Units	92858878002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	3.6	2.5	2.5	3.4	3.5	-5	-4	90-110	1	10	M1
Fluoride	mg/L	1.8	2.5	2.5	1.7J	1.6J	-2	-6	90-110		10	M1

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

QC Batch:	1008789	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

METHOD BLANK: 5187849

Matrix: Water

Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	05/11/26 17:28	
Arsenic	mg/L	ND	0.0020	0.00041	05/11/26 17:28	
Barium	mg/L	0.0013J	0.0050	0.00056	05/11/26 17:28	B0,D1
Beryllium	mg/L	ND	0.00040	0.00015	05/12/26 14:48	
Boron	mg/L	ND	0.040	0.0073	05/12/26 14:48	
Cadmium	mg/L	ND	0.00050	0.00010	05/11/26 17:28	
Chromium	mg/L	ND	0.0050	0.00024	05/11/26 17:28	
Cobalt	mg/L	ND	0.0050	0.00012	05/11/26 17:28	
Lead	mg/L	ND	0.0010	0.00027	05/11/26 17:28	
Molybdenum	mg/L	ND	0.010	0.0020	05/11/26 17:28	
Potassium	mg/L	ND	0.40	0.13	05/12/26 14:48	
Selenium	mg/L	ND	0.0050	0.00050	05/11/26 17:28	
Thallium	mg/L	ND	0.00050	0.00017	05/11/26 17:28	

LABORATORY CONTROL SAMPLE: 5187850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.088	88	80-120	
Boron	mg/L	0.1	0.090	90	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.11	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187851

5187852

Parameter	Units	92858878003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187851 5187852													
Parameter	Units	92858878003	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
Barium	mg/L	0.17	0.1	0.1	0.27	0.26	95	90	75-125	2	20	B0,D1	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.095	99	95	75-125	4	20		
Boron	mg/L	3.0	0.1	0.1	3.1	2.9	204	40	75-125	5	20	M1	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10J	0.096J	99	95	75-125		20		
Cobalt	mg/L	0.11	0.1	0.1	0.21	0.21	101	97	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.095	101	95	75-125	6	20		
Molybdenum	mg/L	ND	0.1	0.1	0.091J	0.090J	89	88	75-125		20		
Potassium	mg/L	2130	1	1	1940	1930	-13900	-14600	75-125	0	20	M1	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	101	97	75-125	4	20		
Thallium	mg/L	0.0084	0.1	0.1	0.11	0.10	100	95	75-125	5	20		

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

QC Batch:	1008791	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET Dissolved
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92858878002, 92858878003

METHOD BLANK: 5187860 Matrix: Water

Associated Lab Samples: 92858878002, 92858878003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00096J	0.0020	0.00043	05/11/26 15:48	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	05/11/26 15:48	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	05/11/26 15:48	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	05/13/26 11:40	
Boron, Dissolved	mg/L	ND	0.040	0.0073	05/13/26 11:40	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	05/11/26 15:48	
Chromium, Dissolved	mg/L	0.00044J	0.0050	0.00024	05/11/26 15:48	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	05/11/26 15:48	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	05/11/26 15:48	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	05/11/26 15:48	
Potassium, Dissolved	mg/L	ND	0.40	0.13	05/11/26 15:48	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	05/11/26 15:48	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	05/11/26 15:48	

LABORATORY CONTROL SAMPLE: 5187861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.099	99	80-120	
Arsenic, Dissolved	mg/L	0.1	0.098	98	80-120	
Barium, Dissolved	mg/L	0.1	0.096	96	80-120	
Beryllium, Dissolved	mg/L	0.1	0.098	98	80-120	
Boron, Dissolved	mg/L	0.1	0.096	96	80-120	
Cadmium, Dissolved	mg/L	0.1	0.10	100	80-120	
Chromium, Dissolved	mg/L	0.1	0.10	103	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	100	80-120	
Lead, Dissolved	mg/L	0.1	0.10	104	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.093	93	80-120	
Potassium, Dissolved	mg/L	1	1.0	100	80-120	
Selenium, Dissolved	mg/L	0.1	0.10	101	80-120	
Thallium, Dissolved	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187862 5187863

Parameter	Units	92858537006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	99	100	75-125	1	20	
Arsenic, Dissolved	mg/L	1.2J ug/L	0.1	0.1	0.10	0.10	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187862				5187863								
Parameter	Units	92858537006	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Barium, Dissolved	mg/L	33.1 ug/L	0.1	0.1	0.14	0.13	110	99	75-125	8	20	
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	1	20	
Boron, Dissolved	mg/L	240 ug/L	0.1	0.1	0.35	0.34	113	103	75-125	3	20	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Chromium, Dissolved	mg/L	1.0J ug/L	0.1	0.1	0.095	0.095	94	94	75-125	1	20	
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Lead, Dissolved	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Molybdenum, Dissolved	mg/L	2.2J ug/L	0.1	0.1	0.099	0.098	97	96	75-125	1	20	
Potassium, Dissolved	mg/L	2570 ug/L	1	1	3.4	3.4	84	86	75-125	1	20	
Selenium, Dissolved	mg/L	0.92J ug/L	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187864 5187865												
Parameter	Units	92858553006	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Arsenic, Dissolved	mg/L	3.7J ug/L	0.1	0.1	0.11	0.11	101	102	75-125	0	20	
Barium, Dissolved	mg/L	27.6 ug/L	0.1	0.1	0.13	0.13	100	98	75-125	2	20	
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.097	103	97	75-125	6	20	
Boron, Dissolved	mg/L	2390 ug/L	0.1	0.1	2.6	2.5	219	135	75-125	3	20	M1
Cadmium, Dissolved	mg/L	0.10J ug/L	0.1	0.1	0.088	0.085	88	85	75-125	3	20	
Chromium, Dissolved	mg/L	1.1J ug/L	0.1	0.1	0.093	0.090	92	89	75-125	4	20	
Cobalt, Dissolved	mg/L	6.7 ug/L	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Lead, Dissolved	mg/L	5.0J ug/L	0.1	0.1	0.093	0.090	88	85	75-125	3	20	
Molybdenum, Dissolved	mg/L	45.5 ug/L	0.1	0.1	0.15	0.15	106	106	75-125	0	20	
Potassium, Dissolved	mg/L	39200 ug/L	1	1	42.1	42.7	290	351	75-125	1	20	M1
Selenium, Dissolved	mg/L	54.2 ug/L	0.1	0.1	0.17	0.16	111	110	75-125	1	20	
Thallium, Dissolved	mg/L	0.27J ug/L	0.1	0.1	0.090	0.087	90	86	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

QC Batch:	1008790	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

METHOD BLANK: 5187855 Matrix: Water

Associated Lab Samples: 92858878001, 92858878002, 92858878003, 92858878004, 92858878005, 92858878006, 92858878007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	05/08/26 15:18	

LABORATORY CONTROL SAMPLE: 5187856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0019	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187857 5187858

Parameter	Units	92858878002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0018	0.0019	92	94	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

QC Batch:	1008797	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury, Dissolved
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92858878002, 92858878003

METHOD BLANK: 5187882 Matrix: Water

Associated Lab Samples: 92858878002, 92858878003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000091	05/08/26 14:38	

LABORATORY CONTROL SAMPLE: 5187883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.002	0.0020	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5187884 5187885

Parameter	Units	92858819001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.002	0.002	0.0019	0.0019	96	93	80-120	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCD-AP234 POST INJECTION
Pace Project No.: 92858878

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92858878

- [1] WSP
[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

- B Analyte was detected in the associated method blank.
B0 Analyte was detected in an associated blank at a concentration greater than the MDL.
D1 Analyte not detected when evaluated to 1/2 the reporting limit.
J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCD-AP234 POST INJECTION

Pace Project No.: 92858878

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92858878001	MCD-INW-03	3015	2750856	EPA 6020B	2750856
92858878002	MCD-INW-04	3015	2750839	EPA 6020B	2750839
92858878002	MCD-INW-04	3015	2750856	EPA 6020B	2750856
92858878003	MCD-DR-02	3015	2750839	EPA 6020B	2750839
92858878003	MCD-DR-02	3015	2750856	EPA 6020B	2750856
92858878004	MCD-DR-03	3015	2750856	EPA 6020B	2750856
92858878005	MCD-AP234-FB-1	3015	2750856	EPA 6020B	2750856
92858878006	MCD-AP234-FD-1	3015	2750856	EPA 6020B	2750856
92858878007	MCD-AP234-EB-1	3015	2750856	EPA 6020B	2750856
92858878001	MCD-INW-03	SM 2320B-2021	1009613		
92858878002	MCD-INW-04	SM 2320B-2021	1009440		
92858878003	MCD-DR-02	SM 2320B-2021	1009440		
92858878004	MCD-DR-03	SM 2320B-2021	1009440		
92858878005	MCD-AP234-FB-1	SM 2320B-2021	1009761		
92858878006	MCD-AP234-FD-1	SM 2320B-2021	1009613		
92858878007	MCD-AP234-EB-1	SM 2320B-2021	1009761		
92858878001	MCD-INW-03	EPA 300.0 Rev 2.1 1993	1008622		
92858878002	MCD-INW-04	EPA 300.0 Rev 2.1 1993	1008622		
92858878003	MCD-DR-02	EPA 300.0 Rev 2.1 1993	1008622		
92858878004	MCD-DR-03	EPA 300.0 Rev 2.1 1993	1008622		
92858878005	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	1008622		
92858878006	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	1008622		
92858878007	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	1008622		
92858878001	MCD-INW-03	EPA 3005A	1008789	EPA 6020B	1009381
92858878002	MCD-INW-04	EPA 3005A	1008789	EPA 6020B	1009381
92858878003	MCD-DR-02	EPA 3005A	1008789	EPA 6020B	1009381
92858878004	MCD-DR-03	EPA 3005A	1008789	EPA 6020B	1009381
92858878005	MCD-AP234-FB-1	EPA 3005A	1008789	EPA 6020B	1009381
92858878006	MCD-AP234-FD-1	EPA 3005A	1008789	EPA 6020B	1009381
92858878007	MCD-AP234-EB-1	EPA 3005A	1008789	EPA 6020B	1009381
92858878002	MCD-INW-04	EPA 3005A	1008791	EPA 6020B	1009326
92858878003	MCD-DR-02	EPA 3005A	1008791	EPA 6020B	1009326
92858878001	MCD-INW-03	EPA 7470A	1008790	EPA 7470A	1009292
92858878002	MCD-INW-04	EPA 7470A	1008790	EPA 7470A	1009292
92858878003	MCD-DR-02	EPA 7470A	1008790	EPA 7470A	1009292
92858878004	MCD-DR-03	EPA 7470A	1008790	EPA 7470A	1009292
92858878005	MCD-AP234-FB-1	EPA 7470A	1008790	EPA 7470A	1009292
92858878006	MCD-AP234-FD-1	EPA 7470A	1008790	EPA 7470A	1009292
92858878007	MCD-AP234-EB-1	EPA 7470A	1008790	EPA 7470A	1009292
92858878002	MCD-INW-04	EPA 7470A	1008797	EPA 7470A	1009291
92858878003	MCD-DR-02	EPA 7470A	1008797	EPA 7470A	1009291

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

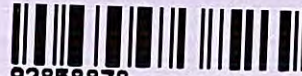
Client Name:

Georgia Power

Project

W0#: 92858878

Courier:

☐ Commercial☐ Fed Ex☐ Pace☐ UPS☐ USPS☐ Other: _____☒ Client

92858878

Custody Seal Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☐ No☒ N/A

Date/Initials Person Examining Contents:

4/9/24
Coff

Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Thermometer:

☒ IR Gun ID:

083

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

3.8

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.8

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Comments/Discrepancy:

Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project

W0#: 92858878

PM: BV

Due Date: 05/14/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Augusta ☐ Kennesaw ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (pH > 12) (Cl-)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
1		2				2																						
2		2				2																						
3		2				2																						
4		2				2																						
5		2				2																						
6		2				2																						
7		2				2																						
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace
 Pace Analytical Charlotte
 9800 Kinney Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: Georgia Power- McDonough

Street Address: 241 Ralph McGill Blvd
NE, Bn 10160
Atlanta, GA 30308

Customer Project #: **MCD-AP-234**

Project Name: **MCD-AP-234** Post Injection Sampling

Site Collection Info/Facility ID (as applicable):

Contact/Report To: Joju Abraham

Phone #:

E-Mail: jabraham@southernco.com

Cc E-Mail:

Invoice To: Account Payable

Invoice E-Mail: georgiapowerinvoices@southernco.com

Purchase Order # (if applicable): GPC82474-0004

Quote #:

Time Zone Collected: ☐ AK ☐ PT ☐ MT ☐ CT ☒ ET

Data Deliverables:

☒ Level II ☐ Level III ☐ Level IV

☐ EQUIS

☐ Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable ☐ Yes ☐ No

Rush (Pre-approval required):

☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): ☒ Yes ☐ No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

LAB USE ONLY - Affix Workorder/Login Label Here

Scan QR Code for instructions

Specify Container Size **

3 3 3 3 3 3 3

Identify Container Preservative Type***

1 1 2 2 2 2 2

Analysis Requested

2320B Total Alkalinity + Bicarbonate

300.0-F, Br

APP IV Metals+Boron, Potassium

APP IV METALS+BORON

Hyg - Diss.

Hyg - Diss.

*** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16474

Prelog / Bottle Ord. ID: EZ 3397190

Sample Comment

Task code: MCD-AP-234-20260506

Preservation non-conformance identified for sample.

Additional Instructions from Pace:

* App IV Metals = Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti

Collected By: (Printed Name) Dana Bloomfield

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Relinquished by/Company: (Signature) WSP

Date/Time: 5/6/26 1649

Received by/Company: (Signature)

Date/Time: 5/6/26 1649

Tracking Number:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Delivered by: ☐ In-Person ☐ Courier

☐ FedEx ☐ UPS ☐ Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©



June 08, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Nicholas McMillan, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92862412001	MCD-INW-03	Water	05/27/26 11:05	05/27/26 17:22
92862412002	MCD-INW-04	Water	05/27/26 14:29	05/27/26 17:22
92862412003	MCD-DR-02	Water	05/27/26 11:19	05/27/26 17:22
92862412004	MCD-DR-03	Water	05/27/26 13:17	05/27/26 17:22
92862412005	MCD-AP234-FB-1	Water	05/27/26 11:30	05/27/26 17:22
92862412006	MCD-AP234-EB-1	Water	05/27/26 14:40	05/27/26 17:22
92862412007	MCD-AP234-FD-1	Water	05/27/26 00:00	05/27/26 17:22

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SAMPLE ANALYTE COUNT

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92862412001	MCD-INW-03	EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92862412002	MCD-INW-04	EPA 6020B	JDM, JPD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92862412003	MCD-DR-02	EPA 6020B	JDM, JPD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92862412004	MCD-DR-03	EPA 6020B	TMT	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92862412005	MCD-AP234-FB-1	EPA 6020B	TMT	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A

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SAMPLE ANALYTE COUNT

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92862412006	MCD-AP234-EB-1	EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	TMT	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
92862412007	MCD-AP234-FD-1	EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	JPD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	ACE	1	PASI-A
		SM 4500-S2D-2021	MGW	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-INW-03		Lab ID: 92862412001		Collected: 05/27/26 11:05		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	ND	mg/L	0.0180	0.00540	9	06/04/26 13:36	06/05/26 10:22	7439-93-2	P4
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO ₃)	29200	mg/L	5.0	5.0	1		06/03/26 16:01		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/03/26 16:01		
Alkalinity, Total as CaCO ₃	29200	mg/L	5.0	5.0	1		06/03/26 16:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	38600	mg/L	2500	2500	1		06/01/26 09:03		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:08	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	12.1	mg/L	0.80	0.48	8		05/30/26 08:22	24959-67-9	M1
Chloride	10.2	mg/L	8.0	4.8	8		05/30/26 08:22	16887-00-6	M1
Fluoride	ND	mg/L	0.80	0.40	8		05/30/26 08:22	16984-48-8	D3,M1
Sulfate	477	mg/L	8.0	4.0	8		05/30/26 08:22	14808-79-8	M1
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.010	0.0022	5	06/01/26 07:59	06/02/26 15:37	7440-36-0	CU
Arsenic	0.0035J	mg/L	0.010	0.0020	5	06/01/26 07:59	06/02/26 15:37	7440-38-2	
Barium	0.045	mg/L	0.025	0.0028	5	06/01/26 07:59	06/02/26 15:37	7440-39-3	
Beryllium	ND	mg/L	0.010	0.0038	25	06/01/26 07:59	06/02/26 15:47	7440-41-7	
Boron	0.92	mg/L	0.20	0.037	5	06/01/26 07:59	06/02/26 15:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00050	5	06/01/26 07:59	06/02/26 15:37	7440-43-9	
Calcium	4.4	mg/L	2.0	0.50	5	06/01/26 07:59	06/02/26 15:37	7440-70-2	
Chromium	ND	mg/L	0.12	0.0060	25	06/01/26 07:59	06/02/26 15:47	7440-47-3	
Cobalt	0.013J	mg/L	0.12	0.0030	25	06/01/26 07:59	06/02/26 15:47	7440-48-4	
Iron	ND	mg/L	1.0	0.41	25	06/01/26 07:59	06/02/26 15:47	7439-89-6	
Lead	ND	mg/L	0.025	0.0068	25	06/01/26 07:59	06/02/26 15:47	7439-92-1	
Magnesium	33.7	mg/L	1.2	0.61	25	06/01/26 07:59	06/02/26 15:47	7439-95-4	
Manganese	0.14	mg/L	0.12	0.032	25	06/01/26 07:59	06/02/26 15:47	7439-96-5	
Molybdenum	0.013J	mg/L	0.050	0.0099	5	06/01/26 07:59	06/02/26 15:37	7439-98-7	
Potassium	19200	mg/L	400	132	1000	06/01/26 07:59	06/03/26 14:23	7440-09-7	
Selenium	0.040	mg/L	0.025	0.0025	5	06/01/26 07:59	06/02/26 15:37	7782-49-2	
Sodium	34.4	mg/L	10.0	2.1	25	06/01/26 07:59	06/02/26 15:47	7440-23-5	
Thallium	0.011J	mg/L	0.012	0.0042	25	06/01/26 07:59	06/02/26 15:47	7440-28-0	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-INW-03		Lab ID: 92862412001		Collected: 05/27/26 11:05		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:39	7439-97-6	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-INW-04		Lab ID: 92862412002		Collected: 05/27/26 14:29		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00757J	mg/L	0.0180	0.00540	9	06/04/26 13:36	06/05/26 10:25	7439-93-2	J
Lithium, Dissolved	0.00135J	mg/L	0.00200	0.000600	1	06/05/26 09:59	06/05/26 20:26	7439-93-2	J
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	2050	mg/L	5.0	5.0	1		06/02/26 13:47		
Alkalinity,Carbonate (CaCO3)	698	mg/L	5.0	5.0	1		06/02/26 13:47		
Alkalinity, Total as CaCO3	2750	mg/L	5.0	5.0	1		06/02/26 13:47		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	5500	mg/L	2500	2500	1		06/01/26 09:03		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:08	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	ND	mg/L	0.10	0.060	1		05/29/26 21:16	24959-67-9	
Chloride	12.9	mg/L	1.0	0.60	1		05/29/26 21:16	16887-00-6	
Fluoride	1.2	mg/L	0.10	0.050	1		05/29/26 21:16	16984-48-8	
Sulfate	697	mg/L	16.0	8.0	16		05/30/26 08:07	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.010	0.0022	5	06/01/26 07:59	06/02/26 16:05	7440-36-0	CU
Arsenic	0.0051J	mg/L	0.010	0.0020	5	06/01/26 07:59	06/02/26 16:05	7440-38-2	
Barium	0.14	mg/L	0.025	0.0028	5	06/01/26 07:59	06/02/26 16:05	7440-39-3	
Beryllium	0.0018J	mg/L	0.0020	0.00075	5	06/01/26 07:59	06/02/26 16:05	7440-41-7	
Boron	2.3	mg/L	1.0	0.18	25	06/01/26 07:59	06/02/26 16:14	7440-42-8	
Cadmium	0.0018J	mg/L	0.0025	0.00050	5	06/01/26 07:59	06/02/26 16:05	7440-43-9	
Calcium	143	mg/L	2.0	0.50	5	06/01/26 07:59	06/02/26 16:05	7440-70-2	
Chromium	ND	mg/L	0.025	0.0012	5	06/01/26 07:59	06/02/26 16:05	7440-47-3	
Cobalt	1.5	mg/L	0.12	0.0030	25	06/01/26 07:59	06/02/26 16:14	7440-48-4	
Iron	0.92	mg/L	0.20	0.082	5	06/01/26 07:59	06/02/26 16:05	7439-89-6	
Lead	ND	mg/L	0.0050	0.0014	5	06/01/26 07:59	06/02/26 16:05	7439-92-1	
Magnesium	69.8	mg/L	0.25	0.12	5	06/01/26 07:59	06/02/26 16:05	7439-95-4	
Manganese	72.5	mg/L	2.5	0.63	500	06/01/26 07:59	06/02/26 16:23	7439-96-5	
Molybdenum	ND	mg/L	0.050	0.0099	5	06/01/26 07:59	06/02/26 16:05	7439-98-7	
Potassium	2220	mg/L	200	66.0	500	06/01/26 07:59	06/02/26 16:23	7440-09-7	
Selenium	0.027	mg/L	0.025	0.0025	5	06/01/26 07:59	06/02/26 16:05	7782-49-2	
Sodium	30.8	mg/L	2.0	0.42	5	06/01/26 07:59	06/02/26 16:05	7440-23-5	
Thallium	0.0063	mg/L	0.0025	0.00085	5	06/01/26 07:59	06/02/26 16:05	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-INW-04		Lab ID: 92862412002		Collected: 05/27/26 14:29		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.010	0.0022	5	05/30/26 22:46	06/02/26 05:08	7440-36-0	
Arsenic, Dissolved	0.0036J	mg/L	0.010	0.0020	5	05/30/26 22:46	06/02/26 05:08	7440-38-2	
Barium, Dissolved	0.14	mg/L	0.025	0.0028	5	05/30/26 22:46	06/02/26 05:08	7440-39-3	
Beryllium, Dissolved	0.0017J	mg/L	0.0020	0.00075	5	05/30/26 22:46	06/02/26 05:08	7440-41-7	
Boron, Dissolved	2.4	mg/L	1.0	0.18	25	05/30/26 22:46	06/02/26 11:54	7440-42-8	
Cadmium, Dissolved	0.0019J	mg/L	0.0025	0.00050	5	05/30/26 22:46	06/02/26 05:08	7440-43-9	
Calcium, Dissolved	140	mg/L	2.0	0.50	5	05/30/26 22:46	06/02/26 05:08	7440-70-2	
Chromium, Dissolved	ND	mg/L	0.025	0.0012	5	05/30/26 22:46	06/02/26 05:08	7440-47-3	
Cobalt, Dissolved	1.6	mg/L	0.12	0.0030	25	05/30/26 22:46	06/02/26 11:54	7440-48-4	
Iron, Dissolved	0.17J	mg/L	0.20	0.082	5	05/30/26 22:46	06/02/26 05:08	7439-89-6	
Lead, Dissolved	ND	mg/L	0.0050	0.0014	5	05/30/26 22:46	06/02/26 05:08	7439-92-1	
Magnesium, Dissolved	67.4	mg/L	0.25	0.12	5	05/30/26 22:46	06/02/26 05:08	7439-95-4	
Manganese, Dissolved	76.5	mg/L	2.5	0.63	500	05/30/26 22:46	06/02/26 12:03	7439-96-5	
Molybdenum, Dissolved	ND	mg/L	0.050	0.0099	5	05/30/26 22:46	06/02/26 05:08	7439-98-7	
Potassium, Dissolved	2270	mg/L	200	66.0	500	05/30/26 22:46	06/02/26 12:03	7440-09-7	
Selenium, Dissolved	0.023J	mg/L	0.025	0.0025	5	05/30/26 22:46	06/02/26 05:08	7782-49-2	
Sodium, Dissolved	30.0	mg/L	2.0	0.42	5	05/30/26 22:46	06/02/26 05:08	7440-23-5	
Thallium, Dissolved	0.0063	mg/L	0.0025	0.00085	5	05/30/26 22:46	06/02/26 05:08	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:42	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	06/03/26 13:07	06/03/26 16:27	7439-97-6	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

Sample: MCD-DR-02		Lab ID: 92862412003		Collected: 05/27/26 11:19		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00592J	mg/L	0.0180	0.00540	9	06/04/26 13:36	06/05/26 10:28	7439-93-2	J,P4
Lithium, Dissolved	0.000917J	mg/L	0.00200	0.000600	1	06/05/26 09:59	06/05/26 20:39	7439-93-2	F1,J
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	17200	mg/L	5.0	5.0	1		06/04/26 08:45		
Alkalinity,Carbonate (CaCO3)	2720	mg/L	5.0	5.0	1		06/04/26 08:45		
Alkalinity, Total as CaCO3	20000	mg/L	5.0	5.0	1		06/04/26 08:45		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	30500	mg/L	2500	2500	1		06/01/26 09:03		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:09	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	7.7	mg/L	0.80	0.48	8		05/30/26 09:43	24959-67-9	
Chloride	12.2	mg/L	8.0	4.8	8		05/30/26 09:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/30/26 00:24	16984-48-8	
Sulfate	701	mg/L	8.0	4.0	8		05/30/26 09:43	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.010	0.0022	5	06/01/26 07:59	06/02/26 16:33	7440-36-0	
Arsenic	0.0026J	mg/L	0.010	0.0020	5	06/01/26 07:59	06/02/26 16:33	7440-38-2	CU
Barium	0.040	mg/L	0.025	0.0028	5	06/01/26 07:59	06/02/26 16:33	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00075	5	06/01/26 07:59	06/02/26 16:33	7440-41-7	
Boron	2.1	mg/L	1.0	0.18	25	06/01/26 07:59	06/03/26 14:51	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00050	5	06/01/26 07:59	06/02/26 16:33	7440-43-9	
Calcium	1.3J	mg/L	2.0	0.50	5	06/01/26 07:59	06/02/26 16:33	7440-70-2	
Chromium	0.0024J	mg/L	0.025	0.0012	5	06/01/26 07:59	06/02/26 16:33	7440-47-3	
Cobalt	0.0066J	mg/L	0.025	0.00060	5	06/01/26 07:59	06/02/26 16:33	7440-48-4	
Iron	ND	mg/L	0.20	0.082	5	06/01/26 07:59	06/02/26 16:33	7439-89-6	
Lead	ND	mg/L	0.025	0.0068	25	06/01/26 07:59	06/03/26 14:51	7439-92-1	2g
Magnesium	12.5	mg/L	0.25	0.12	5	06/01/26 07:59	06/02/26 16:33	7439-95-4	
Manganese	0.16	mg/L	0.025	0.0063	5	06/01/26 07:59	06/02/26 16:33	7439-96-5	
Molybdenum	0.018J	mg/L	0.050	0.0099	5	06/01/26 07:59	06/02/26 16:33	7439-98-7	
Potassium	15000	mg/L	250	82.5	625	06/01/26 07:59	06/03/26 15:00	7440-09-7	
Selenium	0.032	mg/L	0.025	0.0025	5	06/01/26 07:59	06/02/26 16:33	7782-49-2	
Sodium	42.5	mg/L	2.0	0.42	5	06/01/26 07:59	06/02/26 16:33	7440-23-5	
Thallium	0.020	mg/L	0.012	0.0042	25	06/01/26 07:59	06/03/26 14:51	7440-28-0	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-DR-02		Lab ID: 92862412003		Collected: 05/27/26 11:19		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.010	0.0022	5	05/30/26 22:46	06/02/26 05:17	7440-36-0	
Arsenic, Dissolved	0.0028J	mg/L	0.010	0.0020	5	05/30/26 22:46	06/02/26 05:17	7440-38-2	
Barium, Dissolved	0.072	mg/L	0.025	0.0028	5	05/30/26 22:46	06/02/26 05:17	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.0020	0.00075	5	05/30/26 22:46	06/02/26 05:17	7440-41-7	
Boron, Dissolved	1.6	mg/L	1.0	0.18	25	05/30/26 22:46	06/02/26 12:40	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.0025	0.00050	5	05/30/26 22:46	06/02/26 05:17	7440-43-9	
Calcium, Dissolved	5.4	mg/L	2.0	0.50	5	05/30/26 22:46	06/02/26 05:17	7440-70-2	
Chromium, Dissolved	0.0033J	mg/L	0.025	0.0012	5	05/30/26 22:46	06/02/26 05:17	7440-47-3	
Cobalt, Dissolved	0.0048J	mg/L	0.025	0.00060	5	05/30/26 22:46	06/02/26 05:17	7440-48-4	
Iron, Dissolved	ND	mg/L	0.20	0.082	5	05/30/26 22:46	06/02/26 05:17	7439-89-6	
Lead, Dissolved	ND	mg/L	0.025	0.0068	25	05/30/26 22:46	06/02/26 12:40	7439-92-1	1g
Magnesium, Dissolved	57.0	mg/L	0.25	0.12	5	05/30/26 22:46	06/02/26 05:17	7439-95-4	
Manganese, Dissolved	0.053	mg/L	0.025	0.0063	5	05/30/26 22:46	06/02/26 05:17	7439-96-5	
Molybdenum, Dissolved	0.018J	mg/L	0.050	0.0099	5	05/30/26 22:46	06/02/26 05:17	7439-98-7	
Potassium, Dissolved	11600	mg/L	200	66.0	500	05/30/26 22:46	06/02/26 12:12	7440-09-7	
Selenium, Dissolved	0.033	mg/L	0.025	0.0025	5	05/30/26 22:46	06/02/26 05:17	7782-49-2	
Sodium, Dissolved	43.8	mg/L	2.0	0.42	5	05/30/26 22:46	06/02/26 05:17	7440-23-5	
Thallium, Dissolved	0.015	mg/L	0.012	0.0042	25	05/30/26 22:46	06/02/26 12:40	7440-28-0	1g
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:44	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	06/03/26 13:07	06/03/26 16:30	7439-97-6	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

Sample: MCD-DR-03		Lab ID: 92862412004		Collected: 05/27/26 13:17		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00634	mg/L	0.00200	0.000600	1	06/03/26 13:28	06/04/26 16:36	7439-93-2	
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	62.5	mg/L	5.0	5.0	1		06/02/26 15:00		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/02/26 15:00		
Alkalinity, Total as CaCO ₃	62.5	mg/L	5.0	5.0	1		06/02/26 15:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	689	mg/L	25.0	25.0	1		06/01/26 09:03		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:09	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	0.26	mg/L	0.10	0.060	1		05/30/26 00:40	24959-67-9	
Chloride	15.5	mg/L	1.0	0.60	1		05/30/26 00:40	16887-00-6	
Fluoride	0.94	mg/L	0.10	0.050	1		05/30/26 00:40	16984-48-8	
Sulfate	363	mg/L	8.0	4.0	8		05/30/26 09:59	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.0020	0.00043	1	06/01/26 07:59	06/02/26 16:42	7440-36-0	ED
Arsenic	ND	mg/L	0.040	0.0082	20	06/01/26 07:59	06/03/26 15:09	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00056	1	06/01/26 07:59	06/02/26 16:42	7440-39-3	
Beryllium	0.0053	mg/L	0.00040	0.00015	1	06/01/26 07:59	06/02/26 16:42	7440-41-7	
Boron	4.4	mg/L	0.80	0.15	20	06/01/26 07:59	06/03/26 15:09	7440-42-8	
Cadmium	0.00072	mg/L	0.00050	0.00010	1	06/01/26 07:59	06/02/26 16:42	7440-43-9	
Calcium	87.0	mg/L	8.0	2.0	20	06/01/26 07:59	06/03/26 15:09	7440-70-2	
Chromium	0.00027J	mg/L	0.0050	0.00024	1	06/01/26 07:59	06/02/26 16:42	7440-47-3	
Cobalt	0.66	mg/L	0.10	0.0024	20	06/01/26 07:59	06/03/26 15:09	7440-48-4	
Iron	1.0	mg/L	0.040	0.016	1	06/01/26 07:59	06/02/26 16:42	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	06/01/26 07:59	06/02/26 16:42	7439-92-1	
Magnesium	35.7	mg/L	1.0	0.49	20	06/01/26 07:59	06/03/26 15:09	7439-95-4	
Manganese	34.4	mg/L	1.0	0.25	200	06/01/26 07:59	06/03/26 15:18	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	06/01/26 07:59	06/02/26 16:42	7439-98-7	
Potassium	9.5	mg/L	0.40	0.13	1	06/01/26 07:59	06/02/26 16:42	7440-09-7	
Selenium	0.027	mg/L	0.0050	0.00050	1	06/01/26 07:59	06/02/26 16:42	7782-49-2	
Sodium	24.8	mg/L	0.40	0.083	1	06/01/26 07:59	06/02/26 16:42	7440-23-5	
Thallium	0.0011	mg/L	0.00050	0.00017	1	06/01/26 07:59	06/02/26 16:42	7440-28-0	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-DR-03		Lab ID: 92862412004		Collected: 05/27/26 13:17		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:47	7439-97-6	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

Sample: MCD-AP234-FB-1 Lab ID: 92862412005 Collected: 05/27/26 11:30 Received: 05/27/26 17:22 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	06/03/26 13:28	06/04/26 16:53	7439-93-2	
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/02/26 15:08		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/02/26 15:08		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		06/02/26 15:08		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/01/26 09:03		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:10	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		05/29/26 13:33	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		05/29/26 13:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/29/26 13:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/29/26 13:33	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	06/01/26 07:59	06/02/26 17:10	7440-36-0	CU
Arsenic	ND	mg/L	0.0020	0.00041	1	06/01/26 07:59	06/02/26 17:10	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	06/01/26 07:59	06/02/26 17:10	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	06/01/26 07:59	06/02/26 17:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	06/01/26 07:59	06/02/26 17:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	06/01/26 07:59	06/02/26 17:10	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	06/01/26 07:59	06/02/26 17:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.00024	1	06/01/26 07:59	06/02/26 17:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	06/01/26 07:59	06/02/26 17:10	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	06/01/26 07:59	06/02/26 17:10	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	06/01/26 07:59	06/02/26 17:10	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	06/01/26 07:59	06/02/26 17:10	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	06/01/26 07:59	06/02/26 17:10	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	06/01/26 07:59	06/02/26 17:10	7439-98-7	
Potassium	0.26J	mg/L	0.40	0.13	1	06/01/26 07:59	06/02/26 17:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	06/01/26 07:59	06/02/26 17:10	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	06/01/26 07:59	06/02/26 17:10	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	06/01/26 07:59	06/02/26 17:10	7440-28-0	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-AP234-FB-1		Lab ID: 92862412005		Collected: 05/27/26 11:30		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:49	7439-97-6	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-AP234-EB-1 Lab ID: 92862412006 Collected: 05/27/26 14:40 Received: 05/27/26 17:22 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015									
Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	06/03/26 13:28	06/04/26 16:56	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/02/26 15:11		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/02/26 15:11		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		06/02/26 15:11		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2020									
Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/01/26 09:03		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2021									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:11	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		05/29/26 22:21	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		05/29/26 22:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/29/26 22:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/29/26 22:21	14808-79-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	06/01/26 07:59	06/02/26 17:19	7440-36-0	CU
Arsenic	ND	mg/L	0.0020	0.00041	1	06/01/26 07:59	06/02/26 17:19	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	06/01/26 07:59	06/02/26 17:19	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	06/01/26 07:59	06/02/26 17:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	06/01/26 07:59	06/02/26 17:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	06/01/26 07:59	06/02/26 17:19	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	06/01/26 07:59	06/02/26 17:19	7440-70-2	
Chromium	0.00038J	mg/L	0.0050	0.00024	1	06/01/26 07:59	06/02/26 17:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	06/01/26 07:59	06/02/26 17:19	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	06/01/26 07:59	06/02/26 17:19	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	06/01/26 07:59	06/02/26 17:19	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	06/01/26 07:59	06/02/26 17:19	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	06/01/26 07:59	06/02/26 17:19	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	06/01/26 07:59	06/02/26 17:19	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	06/01/26 07:59	06/02/26 17:19	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	06/01/26 07:59	06/02/26 17:19	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	06/01/26 07:59	06/02/26 17:19	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	06/01/26 07:59	06/02/26 17:19	7440-28-0	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-AP234-EB-1		Lab ID: 92862412006		Collected: 05/27/26 14:40		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:52	7439-97-6	

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-AP234-FD-1 Lab ID: 92862412007 Collected: 05/27/26 00:00 Received: 05/27/26 17:22 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.0180	0.00540	9	06/04/26 13:36	06/05/26 11:12	7439-93-2	P4
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	26000	mg/L	5.0	5.0	1		06/04/26 08:57		
Alkalinity, Carbonate (CaCO ₃)	3520	mg/L	5.0	5.0	1		06/04/26 08:57		
Alkalinity, Total as CaCO ₃	29500	mg/L	5.0	5.0	1		06/04/26 08:57		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	43600	mg/L	2500	2500	1		06/01/26 09:03		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/02/26 20:13	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	12.3	mg/L	0.80	0.48	8		05/30/26 10:29	24959-67-9	
Chloride	10.4	mg/L	8.0	4.8	8		05/30/26 10:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/30/26 00:55	16984-48-8	
Sulfate	486	mg/L	8.0	4.0	8		05/30/26 10:29	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.010	0.0022	5	06/01/26 07:59	06/02/26 17:28	7440-36-0	
Arsenic	0.0036J	mg/L	0.010	0.0020	5	06/01/26 07:59	06/02/26 17:28	7440-38-2	CU
Barium	0.039	mg/L	0.025	0.0028	5	06/01/26 07:59	06/02/26 17:28	7440-39-3	
Beryllium	ND	mg/L	0.010	0.0038	25	06/01/26 07:59	06/03/26 15:28	7440-41-7	2g
Boron	1.0	mg/L	0.20	0.037	5	06/01/26 07:59	06/02/26 17:28	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00050	5	06/01/26 07:59	06/02/26 17:28	7440-43-9	
Calcium	4.3	mg/L	2.0	0.50	5	06/01/26 07:59	06/02/26 17:28	7440-70-2	
Chromium	ND	mg/L	0.12	0.0060	25	06/01/26 07:59	06/03/26 15:28	7440-47-3	2g
Cobalt	0.011J	mg/L	0.12	0.0030	25	06/01/26 07:59	06/03/26 15:28	7440-48-4	2g
Iron	ND	mg/L	1.0	0.41	25	06/01/26 07:59	06/03/26 15:28	7439-89-6	2g
Lead	ND	mg/L	0.025	0.0068	25	06/01/26 07:59	06/03/26 15:28	7439-92-1	2g
Magnesium	30.5	mg/L	1.2	0.61	25	06/01/26 07:59	06/03/26 15:28	7439-95-4	
Manganese	0.14	mg/L	0.12	0.032	25	06/01/26 07:59	06/03/26 15:28	7439-96-5	
Molybdenum	0.015J	mg/L	0.050	0.0099	5	06/01/26 07:59	06/02/26 17:28	7439-98-7	
Potassium	18300	mg/L	250	82.5	625	06/01/26 07:59	06/03/26 15:37	7440-09-7	
Selenium	0.042	mg/L	0.025	0.0025	5	06/01/26 07:59	06/02/26 17:28	7782-49-2	
Sodium	33.3	mg/L	10.0	2.1	25	06/01/26 07:59	06/03/26 15:28	7440-23-5	
Thallium	0.011J	mg/L	0.012	0.0042	25	06/01/26 07:59	06/03/26 15:28	7440-28-0	2g

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Sample: MCD-AP234-FD-1		Lab ID: 92862412007		Collected: 05/27/26 00:00		Received: 05/27/26 17:22		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	05/29/26 14:32	05/30/26 07:54	7439-97-6	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

QC Batch: 2764823 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B, Dissolved
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92862412002, 92862412003

METHOD BLANK: R4383508-6 Matrix: Water

Associated Lab Samples: 92862412002, 92862412003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	ND	0.00200	0.000600	06/05/26 20:19	

LABORATORY CONTROL SAMPLE: R4383508-7

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	0.0500	0.0497	99.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4383508-9 R4383508-10

Parameter	Units	92862412002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	0.00135	0.0500	0.0500	0.0455	0.0430	88.3	83.4	75.0-125	5.55	20	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

QC Batch: 2764878 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92862412004, 92862412005, 92862412006

METHOD BLANK: R4382885-1 Matrix: Water
Associated Lab Samples: 92862412004, 92862412005, 92862412006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	06/04/26 15:03	

LABORATORY CONTROL SAMPLE: R4382885-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0540	108	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4382885-4 R4382885-5

Parameter	Units	L1979014-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0215	0.0500	0.0500	0.0749	0.0761	107	109	75.0-125	1.58	20	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch: 2767211 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412007

METHOD BLANK: R4383214-1 Matrix: Water

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	06/05/26 10:00	

LABORATORY CONTROL SAMPLE: R4383214-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0510	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4383214-4 R4383214-5

Parameter	Units	L1980295-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.000856	0.0500	0.0500	0.0518	0.0513	102	101	75.0-125	1.04	20	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch: 1013730

Analysis Method: SM 2320B-2021

QC Batch Method: SM 2320B-2021

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92862412002, 92862412004, 92862412005, 92862412006

METHOD BLANK: 5212731

Matrix: Water

Associated Lab Samples: 92862412002, 92862412004, 92862412005, 92862412006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	06/02/26 10:59	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/02/26 10:59	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/02/26 10:59	

LABORATORY CONTROL SAMPLE: 5212732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 5212733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	50.7	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5212841 5212842

Parameter	Units	92862721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	152	50	50	200	196	97	89	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5212843 5212844

Parameter	Units	92862721003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	328	50	50	383	383	111	111	80-120	0	25	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch: 1014005 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92862412001, 92862412003, 92862412007

METHOD BLANK: 5214085 Matrix: Water

Associated Lab Samples: 92862412001, 92862412003, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	06/03/26 15:41	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/03/26 15:41	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/03/26 15:41	

LABORATORY CONTROL SAMPLE: 5214086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	55.0	110	80-120	

LABORATORY CONTROL SAMPLE: 5215839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5214088 5214089

Parameter	Units	92863099004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	330	50	50	375	380	90	100	80-120	1	25	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch:	1013425	Analysis Method:	SM 2540C-2020
QC Batch Method:	SM 2540C-2020	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

METHOD BLANK: 5211557 Matrix: Water

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/01/26 09:01	

LABORATORY CONTROL SAMPLE: 5211558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	102	90-110	

SAMPLE DUPLICATE: 5211559

Parameter	Units	92862780001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2610	2400	8	25	

SAMPLE DUPLICATE: 5211560

Parameter	Units	92862412001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	38600	42700	10	25	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch:	1013811	Analysis Method:	SM 4500-S2D-2021
QC Batch Method:	SM 4500-S2D-2021	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

METHOD BLANK:	5213199	Matrix:	Water
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Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	06/02/26 20:06	

LABORATORY CONTROL SAMPLE: 5213200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.47	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5213201 5213202

Parameter	Units	92862588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.58	0.54	116	109	80-120	7	10	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

QC Batch: 1013158 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

METHOD BLANK: 5210167 Matrix: Water
Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	05/29/26 13:02	
Chloride	mg/L	ND	1.0	0.60	05/29/26 13:02	
Fluoride	mg/L	ND	0.10	0.050	05/29/26 13:02	
Sulfate	mg/L	ND	1.0	0.50	05/29/26 13:02	

LABORATORY CONTROL SAMPLE: 5210168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.5	98	90-110	
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5210169 5210170

Parameter	Units	92862412001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	12.1	2.5	2.5	13.4	13.4	52	53	90-110	0	10	M1
Chloride	mg/L	10.2	50	50	51.9	50.8	83	81	90-110	2	10	M1
Fluoride	mg/L	ND	2.5	2.5	1.9J	1.8J	71	67	90-110		10	D3,M1
Sulfate	mg/L	477	50	50	499	506	44	59	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5210171 5210172

Parameter	Units	92862415004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	2	10	
Chloride	mg/L	1.7	50	50	51.0	51.2	99	99	90-110	1	10	
Fluoride	mg/L	0.059J	2.5	2.5	2.6	2.6	102	103	90-110	1	10	
Sulfate	mg/L	24.7	50	50	75.3	75.6	101	102	90-110	0	10	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch:	1013380	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

METHOD BLANK: 5211455

Matrix: Water

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	06/02/26 15:19	
Arsenic	mg/L	ND	0.0020	0.00041	06/03/26 14:05	
Barium	mg/L	ND	0.0050	0.00056	06/02/26 15:19	
Beryllium	mg/L	ND	0.00040	0.00015	06/02/26 15:19	
Boron	mg/L	ND	0.040	0.0073	06/02/26 15:19	
Cadmium	mg/L	ND	0.00050	0.00010	06/02/26 15:19	
Calcium	mg/L	ND	0.40	0.10	06/02/26 15:19	
Chromium	mg/L	ND	0.0050	0.00024	06/02/26 15:19	
Cobalt	mg/L	ND	0.0050	0.00012	06/02/26 15:19	
Iron	mg/L	ND	0.040	0.016	06/02/26 15:19	
Lead	mg/L	ND	0.0010	0.00027	06/02/26 15:19	
Magnesium	mg/L	ND	0.050	0.024	06/02/26 15:19	
Manganese	mg/L	ND	0.0050	0.0013	06/02/26 15:19	
Molybdenum	mg/L	ND	0.010	0.0020	06/02/26 15:19	
Potassium	mg/L	ND	0.40	0.13	06/02/26 15:19	
Selenium	mg/L	ND	0.0050	0.00050	06/02/26 15:19	
Sodium	mg/L	ND	0.40	0.083	06/02/26 15:19	
Thallium	mg/L	ND	0.00050	0.00017	06/02/26 15:19	

LABORATORY CONTROL SAMPLE: 5211456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.089	89	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.088	88	80-120	
Boron	mg/L	0.1	0.090	90	80-120	
Cadmium	mg/L	0.1	0.090	90	80-120	
Calcium	mg/L	1	1.0	105	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Iron	mg/L	1	0.99	99	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Manganese	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.090	90	80-120	
Potassium	mg/L	1	1.2	116	80-120	
Selenium	mg/L	0.1	0.081	81	80-120	
Sodium	mg/L	1	0.94	94	80-120	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

LABORATORY CONTROL SAMPLE: 5211456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5211457 5211458

Parameter	Units	92862415001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Antimony	mg/L	ND	0.1	0.1	0.091	0.090	91	90	75-125	1	20	
Arsenic	mg/L	0.073	0.1	0.1	0.18	0.18	102	103	75-125	0	20	
Barium	mg/L	0.090	0.1	0.1	0.18	0.19	95	96	75-125	1	20	
Beryllium	mg/L	0.00031J	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Boron	mg/L	0.12	0.1	0.1	0.22	0.22	102	102	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20	
Calcium	mg/L	12.6	1	1	14.3	14.3	166	161	75-125	0	20 M1	
Chromium	mg/L	0.00027J	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Cobalt	mg/L	0.0016J	0.1	0.1	0.11	0.10	106	102	75-125	3	20	
Iron	mg/L	14.4	1	1	16.4	16.3	206	188	75-125	1	20 M1	
Lead	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	0	20	
Magnesium	mg/L	3.9	1	1	5.0	4.9	110	103	75-125	1	20	
Manganese	mg/L	1.3	0.1	0.1	1.5	1.4	184	158	75-125	2	20 M1	
Molybdenum	mg/L	ND	0.1	0.1	0.093	0.092	92	92	75-125	1	20	
Potassium	mg/L	3.2	1	1	3.8	3.8	59	63	75-125	1	20 M1	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Sodium	mg/L	5.7	1	1	6.7	6.7	108	102	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch:	1013397	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET Dissolved
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92862412002, 92862412003

METHOD BLANK: 5211486 Matrix: Water

Associated Lab Samples: 92862412002, 92862412003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.00091J	0.0020	0.00043	06/02/26 04:49	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	06/02/26 04:49	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	06/02/26 04:49	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	06/02/26 04:49	
Boron, Dissolved	mg/L	ND	0.040	0.0073	06/02/26 04:49	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	06/02/26 04:49	
Calcium, Dissolved	mg/L	ND	0.40	0.10	06/02/26 04:49	
Chromium, Dissolved	mg/L	ND	0.0050	0.00024	06/02/26 04:49	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	06/02/26 04:49	
Iron, Dissolved	mg/L	ND	0.040	0.016	06/02/26 04:49	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	06/02/26 04:49	
Magnesium, Dissolved	mg/L	ND	0.050	0.024	06/02/26 04:49	
Manganese, Dissolved	mg/L	ND	0.0050	0.0013	06/02/26 04:49	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	06/02/26 04:49	
Potassium, Dissolved	mg/L	ND	0.40	0.13	06/02/26 04:49	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	06/02/26 04:49	
Sodium, Dissolved	mg/L	ND	0.40	0.083	06/02/26 04:49	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	06/02/26 04:49	

LABORATORY CONTROL SAMPLE: 5211487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.096	96	80-120	
Arsenic, Dissolved	mg/L	0.1	0.093	93	80-120	
Barium, Dissolved	mg/L	0.1	0.098	98	80-120	
Beryllium, Dissolved	mg/L	0.1	0.089	89	80-120	
Boron, Dissolved	mg/L	0.1	0.090	90	80-120	
Cadmium, Dissolved	mg/L	0.1	0.096	96	80-120	
Calcium, Dissolved	mg/L	1	1.0	102	80-120	
Chromium, Dissolved	mg/L	0.1	0.099	99	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	100	80-120	
Iron, Dissolved	mg/L	1	1.0	100	80-120	
Lead, Dissolved	mg/L	0.1	0.10	100	80-120	
Magnesium, Dissolved	mg/L	1	0.96	96	80-120	
Manganese, Dissolved	mg/L	0.1	0.10	103	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.094	94	80-120	
Potassium, Dissolved	mg/L	1	1.0	104	80-120	
Selenium, Dissolved	mg/L	0.1	0.091	91	80-120	
Sodium, Dissolved	mg/L	1	0.97	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

LABORATORY CONTROL SAMPLE: 5211487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium, Dissolved	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5211488 5211489

Parameter	Units	92862824006	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits			
Antimony, Dissolved	mg/L	ND	0.1	0.1	0.096	0.098	94	96	75-125	2	20	
Arsenic, Dissolved	mg/L	0.13	0.1	0.1	0.23	0.24	96	104	75-125	3	20	
Barium, Dissolved	mg/L	53.7 ug/L	0.1	0.1	0.15	0.15	92	97	75-125	3	20	
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20	
Boron, Dissolved	mg/L	ND	0.1	0.1	0.12	0.12	96	100	75-125	3	20	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Calcium, Dissolved	mg/L	26000 ug/L	1	1	26.3	27.6	35	161	75-125	5	20 M1	
Chromium, Dissolved	mg/L	0.0099	0.1	0.1	0.11	0.11	101	101	75-125	0	20	
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Iron, Dissolved	mg/L	555 ug/L	1	1	1.6	1.7	107	111	75-125	2	20	
Lead, Dissolved	mg/L	ND	0.1	0.1	0.097	0.10	96	101	75-125	5	20	
Magnesium, Dissolved	mg/L	7650 ug/L	1	1	8.6	8.9	94	128	75-125	4	20 M1	
Manganese, Dissolved	mg/L	192 ug/L	0.1	0.1	0.30	0.30	103	110	75-125	2	20	
Molybdenum, Dissolved	mg/L	ND	0.1	0.1	0.095	0.098	94	96	75-125	3	20	
Potassium, Dissolved	mg/L	8960 ug/L	1	1	10.1	10.0	116	107	75-125	1	20	
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	1	20	
Sodium, Dissolved	mg/L	21200 ug/L	1	1	22.1	22.8	91	169	75-125	3	20 M1	
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

QC Batch:	1013242	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

METHOD BLANK: 5210448 Matrix: Water

Associated Lab Samples: 92862412001, 92862412002, 92862412003, 92862412004, 92862412005, 92862412006, 92862412007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	05/30/26 07:34	

LABORATORY CONTROL SAMPLE: 5210449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5210450 5210451

Parameter	Units	92862415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0019	0.0021	96	103	80-120	7	20	

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QUALITY CONTROL DATA

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

QC Batch: 1013244 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: WCOL 7470 Mercury, Dissolved
Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92862412002, 92862412003

METHOD BLANK: 5210458 Matrix: Water

Associated Lab Samples: 92862412002, 92862412003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000091	06/03/26 16:22	

LABORATORY CONTROL SAMPLE: 5210459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.002	0.0019	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5210460 5210461

Parameter	Units	92862412003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.002	0.002	0.0019	0.0017	96	86	80-120	12	20	

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QUALIFIERS

Project: McDonough AP-234 Pilot Study
Pace Project No.: 92862412

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92862412

- [1] WSP
[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

- 1g The result for this analyte is reported from a diluted analysis due to an internal standard failure. The reporting limit has been adjusted accordingly.
2g The result for this analyte is reported from a diluted analysis due to an internal standard failure. The reporting limits have been adjusted accordingly.
CU The continuing calibration for this analyte is above laboratory acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
ED Due to the extract's physical characteristics, the analysis was performed at dilution.
F1 Sample filtration was performed in the laboratory.
J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92862412001	MCD-INW-03	3015	2767211	EPA 6020B	2767211
92862412002	MCD-INW-04	3015	2764823	EPA 6020B	2764823
92862412002	MCD-INW-04	3015	2767211	EPA 6020B	2767211
92862412003	MCD-DR-02	3015	2764823	EPA 6020B	2764823
92862412003	MCD-DR-02	3015	2767211	EPA 6020B	2767211
92862412004	MCD-DR-03	3015	2764878	EPA 6020B	2764878
92862412005	MCD-AP234-FB-1	3015	2764878	EPA 6020B	2764878
92862412006	MCD-AP234-EB-1	3015	2764878	EPA 6020B	2764878
92862412007	MCD-AP234-FD-1	3015	2767211	EPA 6020B	2767211
92862412001	MCD-INW-03	SM 2320B-2021	1014005		
92862412002	MCD-INW-04	SM 2320B-2021	1013730		
92862412003	MCD-DR-02	SM 2320B-2021	1014005		
92862412004	MCD-DR-03	SM 2320B-2021	1013730		
92862412005	MCD-AP234-FB-1	SM 2320B-2021	1013730		
92862412006	MCD-AP234-EB-1	SM 2320B-2021	1013730		
92862412007	MCD-AP234-FD-1	SM 2320B-2021	1014005		
92862412001	MCD-INW-03	SM 2540C-2020	1013425		
92862412002	MCD-INW-04	SM 2540C-2020	1013425		
92862412003	MCD-DR-02	SM 2540C-2020	1013425		
92862412004	MCD-DR-03	SM 2540C-2020	1013425		
92862412005	MCD-AP234-FB-1	SM 2540C-2020	1013425		
92862412006	MCD-AP234-EB-1	SM 2540C-2020	1013425		
92862412007	MCD-AP234-FD-1	SM 2540C-2020	1013425		
92862412001	MCD-INW-03	SM 4500-S2D-2021	1013811		
92862412002	MCD-INW-04	SM 4500-S2D-2021	1013811		
92862412003	MCD-DR-02	SM 4500-S2D-2021	1013811		
92862412004	MCD-DR-03	SM 4500-S2D-2021	1013811		
92862412005	MCD-AP234-FB-1	SM 4500-S2D-2021	1013811		
92862412006	MCD-AP234-EB-1	SM 4500-S2D-2021	1013811		
92862412007	MCD-AP234-FD-1	SM 4500-S2D-2021	1013811		
92862412001	MCD-INW-03	EPA 300.0 Rev 2.1 1993	1013158		
92862412002	MCD-INW-04	EPA 300.0 Rev 2.1 1993	1013158		
92862412003	MCD-DR-02	EPA 300.0 Rev 2.1 1993	1013158		
92862412004	MCD-DR-03	EPA 300.0 Rev 2.1 1993	1013158		
92862412005	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	1013158		
92862412006	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	1013158		
92862412007	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	1013158		
92862412001	MCD-INW-03	EPA 3005A	1013380	EPA 6020B	1013967
92862412002	MCD-INW-04	EPA 3005A	1013380	EPA 6020B	1013967
92862412003	MCD-DR-02	EPA 3005A	1013380	EPA 6020B	1013967
92862412004	MCD-DR-03	EPA 3005A	1013380	EPA 6020B	1013967

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: McDonough AP-234 Pilot Study

Pace Project No.: 92862412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92862412005	MCD-AP234-FB-1	EPA 3005A	1013380	EPA 6020B	1013967
92862412006	MCD-AP234-EB-1	EPA 3005A	1013380	EPA 6020B	1013967
92862412007	MCD-AP234-FD-1	EPA 3005A	1013380	EPA 6020B	1013967
92862412002	MCD-INW-04	EPA 3005A	1013397	EPA 6020B	1013820
92862412003	MCD-DR-02	EPA 3005A	1013397	EPA 6020B	1013820
92862412001	MCD-INW-03	EPA 7470A	1013242	EPA 7470A	1013389
92862412002	MCD-INW-04	EPA 7470A	1013242	EPA 7470A	1013389
92862412003	MCD-DR-02	EPA 7470A	1013242	EPA 7470A	1013389
92862412004	MCD-DR-03	EPA 7470A	1013242	EPA 7470A	1013389
92862412005	MCD-AP234-FB-1	EPA 7470A	1013242	EPA 7470A	1013389
92862412006	MCD-AP234-EB-1	EPA 7470A	1013242	EPA 7470A	1013389
92862412007	MCD-AP234-FD-1	EPA 7470A	1013242	EPA 7470A	1013389
92862412002	MCD-INW-04	EPA 7470A	1013244	EPA 7470A	1014188
92862412003	MCD-DR-02	EPA 7470A	1013244	EPA 7470A	1014188

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition:
Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92862412



92862412

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Commercial ☐ Pace ☐ Other: _____Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/ADate/Initials Person Examining Contents: 5/27/26
CJHPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☒ N/A

Thermometer:

☒ TR Gun ID: 083

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

4.9

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

4.9

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A		
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.	
Dissolved analysis: Samples Field Filtered?	☒ Yes ☐ No ☐ N/A	8.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92862412

PM: BV

Due Date: 06/04/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Boone ☐ Kennesaw ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 7N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3K-250 mL Plastic (N/A)2504 (9, 3-9, 7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
1		2	1																									
2		2	1																									
3		2	1																									
4		2	1																									
5		2	1																									
6		2	1																									
7		2	1																									
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

APPENDIX B

**Analytical Results
June 2026**



June 22, 2026

Joju Abraham
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Taylor Johnson, WSP
Andrea McClure, WSP
Nicholas McMillan, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LA000356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037

Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92863858001	MCD-INW-03	Water	06/03/26 12:08	06/03/26 16:50
92863858002	MCD-INW-04	Water	06/03/26 14:55	06/03/26 16:50
92863858003	MCD-DR-02	Water	06/03/26 12:14	06/03/26 16:50
92863858004	MCD-DR-03	Water	06/03/26 13:52	06/03/26 16:50
92863858005	MCD-AP234-FB-1	Water	06/03/26 12:35	06/03/26 16:50
92863858006	MCD-AP234-EB-1	Water	06/03/26 15:10	06/03/26 16:50
92863858007	MCD-AP234-FD-1	Water	06/03/26 00:00	06/03/26 16:50

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SAMPLE ANALYTE COUNT

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92863858001	MCD-INW-03	EPA 6020B	TMT	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92863858002	MCD-INW-04	EPA 6020B	LD, SJM	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92863858003	MCD-DR-02	EPA 6020B	JDB, TMT	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 7470A	DH	1	PASI-WC
92863858004	MCD-DR-03	EPA 6020B	LD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
92863858005	MCD-AP234-FB-1	EPA 7470A	DH	1	PASI-WC
		EPA 6020B	LD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92863858006	MCD-AP234-EB-1	EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	LD	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
92863858007	MCD-AP234-FD-1	EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC
		EPA 6020B	TMT	1	PAN
		SM 2320B-2021	SMS	3	PASI-A
		SM 2540C-2020	CDM	1	PASI-A
		SM 4500-S2D-2021	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	4	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	DH	1	PASI-WC

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-INW-03 Lab ID: 92863858001 Collected: 06/03/26 12:08 Received: 06/03/26 16:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.0180	0.00540	9	06/18/26 15:25	06/18/26 17:53	7439-93-2	P4
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	31800	mg/L	5.0	5.0	1		06/11/26 09:34		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/11/26 09:34		
Alkalinity, Total as CaCO ₃	31800	mg/L	5.0	5.0	1		06/11/26 09:34		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	45400	mg/L	2500	2500	1		06/06/26 16:44		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/09/26 04:57	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	11.0	mg/L	1.0	0.60	10		06/05/26 17:19	24959-67-9	M1
Chloride	10.4	mg/L	10.0	6.0	10		06/05/26 17:19	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		06/05/26 02:09	16984-48-8	M1
Sulfate	441	mg/L	10.0	5.0	10		06/05/26 17:19	14808-79-8	M1
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.010	0.0022	5	06/11/26 12:31	06/12/26 17:32	7440-36-0	M1
Arsenic	0.0042J	mg/L	0.010	0.0020	5	06/11/26 12:31	06/12/26 17:32	7440-38-2	
Barium	0.13	mg/L	0.025	0.0028	5	06/11/26 12:31	06/12/26 17:32	7440-39-3	M1
Beryllium	ND	mg/L	0.0020	0.00075	5	06/11/26 12:31	06/12/26 17:32	7440-41-7	M1
Boron	1.5	mg/L	0.20	0.037	5	06/11/26 12:31	06/12/26 17:32	7440-42-8	M1
Cadmium	ND	mg/L	0.0025	0.00050	5	06/11/26 12:31	06/12/26 17:32	7440-43-9	M1
Calcium	8.4	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 17:32	7440-70-2	M1
Chromium	0.0066J	mg/L	0.025	0.0012	5	06/11/26 12:31	06/12/26 17:32	7440-47-3	
Cobalt	0.0040J	mg/L	0.025	0.00060	5	06/11/26 12:31	06/12/26 17:32	7440-48-4	M1
Iron	0.19J	mg/L	0.20	0.082	5	06/11/26 12:31	06/12/26 17:32	7439-89-6	M1
Lead	ND	mg/L	0.025	0.0068	25	06/11/26 12:31	06/12/26 11:33	7439-92-1	M1
Magnesium	41.5	mg/L	0.25	0.12	5	06/11/26 12:31	06/12/26 17:32	7439-95-4	M1
Manganese	0.064	mg/L	0.025	0.0063	5	06/11/26 12:31	06/12/26 17:32	7439-96-5	M1, R1
Molybdenum	0.021J	mg/L	0.050	0.0099	5	06/11/26 12:31	06/12/26 17:32	7439-98-7	
Potassium	18800	mg/L	400	132	1000	06/11/26 12:31	06/12/26 15:14	7440-09-7	M1
Selenium	0.047	mg/L	0.025	0.0025	5	06/11/26 12:31	06/12/26 17:32	7782-49-2	
Sodium	49.3	mg/L	2.0	0.42	5	06/11/26 12:31	06/12/26 17:32	7440-23-5	M1
Thallium	0.012J	mg/L	0.012	0.0042	25	06/11/26 12:31	06/12/26 11:33	7440-28-0	M1

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Sample: MCD-INW-03		Lab ID: 92863858001		Collected: 06/03/26 12:08		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 12:50	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-INW-04		Lab ID: 92863858002		Collected: 06/03/26 14:55		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B		Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet							
Lithium	0.00160J	mg/L	0.00200	0.000600	1	06/17/26 08:42	06/17/26 22:25	7439-93-2	J
Lithium, Dissolved	0.00119J	mg/L	0.00200	0.000600	1	06/19/26 12:07	06/19/26 14:00	7439-93-2	J
2320B Alkalinity		Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO ₃)	1410	mg/L	5.0	5.0	1		06/05/26 14:21		
Alkalinity,Carbonate (CaCO ₃)	209	mg/L	5.0	5.0	1		06/05/26 14:21		
Alkalinity, Total as CaCO ₃	1620	mg/L	5.0	5.0	1		06/05/26 14:21		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville							
Total Dissolved Solids	3510	mg/L	250	250	1		06/06/26 16:44		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.022	1		06/09/26 04:58	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Bromide	ND	mg/L	0.10	0.060	1		06/05/26 02:54	24959-67-9	
Chloride	1.5	mg/L	1.0	0.60	1		06/05/26 02:54	16887-00-6	
Fluoride	1.4	mg/L	0.10	0.050	1		06/05/26 02:54	16984-48-8	
Sulfate	742	mg/L	17.0	8.5	17		06/05/26 18:03	14808-79-8	
WC 6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony	ND	mg/L	0.010	0.0022	5	06/11/26 12:31	06/12/26 13:23	7440-36-0	
Arsenic	0.0053J	mg/L	0.010	0.0020	5	06/11/26 12:31	06/12/26 13:23	7440-38-2	
Barium	0.11	mg/L	0.025	0.0028	5	06/11/26 12:31	06/12/26 13:23	7440-39-3	
Beryllium	0.0035	mg/L	0.0020	0.00075	5	06/11/26 12:31	06/12/26 13:23	7440-41-7	
Boron	2.8	mg/L	1.0	0.18	25	06/11/26 12:31	06/12/26 13:33	7440-42-8	
Cadmium	0.0025J	mg/L	0.0025	0.00050	5	06/11/26 12:31	06/12/26 13:23	7440-43-9	
Calcium	135	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 13:23	7440-70-2	
Chromium	ND	mg/L	0.025	0.0012	5	06/11/26 12:31	06/12/26 13:23	7440-47-3	
Cobalt	1.7	mg/L	0.12	0.0030	25	06/11/26 12:31	06/12/26 13:33	7440-48-4	
Iron	0.40	mg/L	0.20	0.082	5	06/11/26 12:31	06/12/26 13:23	7439-89-6	
Lead	ND	mg/L	0.0050	0.0014	5	06/11/26 12:31	06/12/26 13:23	7439-92-1	
Magnesium	71.8	mg/L	0.25	0.12	5	06/11/26 12:31	06/12/26 13:23	7439-95-4	
Manganese	80.6	mg/L	2.5	0.63	500	06/11/26 12:31	06/12/26 13:42	7439-96-5	
Molybdenum	ND	mg/L	0.050	0.0099	5	06/11/26 12:31	06/12/26 13:23	7439-98-7	
Potassium	1230	mg/L	200	66.0	500	06/11/26 12:31	06/12/26 13:42	7440-09-7	
Selenium	0.022J	mg/L	0.025	0.0025	5	06/11/26 12:31	06/12/26 13:23	7782-49-2	
Sodium	31.6	mg/L	2.0	0.42	5	06/11/26 12:31	06/12/26 13:23	7440-23-5	
Thallium	0.0050	mg/L	0.0025	0.00085	5	06/11/26 12:31	06/12/26 13:23	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-INW-04		Lab ID: 92863858002		Collected: 06/03/26 14:55		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.010	0.0022	5	06/11/26 12:31	06/12/26 08:56	7440-36-0	P8
Arsenic, Dissolved	0.0042J	mg/L	0.010	0.0020	5	06/11/26 12:31	06/12/26 08:56	7440-38-2	
Barium, Dissolved	0.11	mg/L	0.025	0.0028	5	06/11/26 12:31	06/12/26 08:56	7440-39-3	
Beryllium, Dissolved	0.0027	mg/L	0.0020	0.00075	5	06/11/26 12:31	06/12/26 08:56	7440-41-7	
Boron, Dissolved	2.4	mg/L	1.0	0.18	25	06/11/26 12:31	06/12/26 09:05	7440-42-8	
Cadmium, Dissolved	0.0024J	mg/L	0.0025	0.00050	5	06/11/26 12:31	06/12/26 08:56	7440-43-9	
Calcium, Dissolved	137	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 08:56	7440-70-2	
Chromium, Dissolved	ND	mg/L	0.025	0.0012	5	06/11/26 12:31	06/12/26 08:56	7440-47-3	
Cobalt, Dissolved	1.6	mg/L	0.12	0.0030	25	06/11/26 12:31	06/12/26 09:05	7440-48-4	
Iron, Dissolved	0.16J	mg/L	0.20	0.082	5	06/11/26 12:31	06/12/26 08:56	7439-89-6	
Lead, Dissolved	ND	mg/L	0.0050	0.0014	5	06/11/26 12:31	06/12/26 08:56	7439-92-1	
Magnesium, Dissolved	64.8	mg/L	0.25	0.12	5	06/11/26 12:31	06/12/26 08:56	7439-95-4	
Manganese, Dissolved	79.4	mg/L	2.5	0.63	500	06/11/26 12:31	06/12/26 09:15	7439-96-5	
Molybdenum, Dissolved	ND	mg/L	0.050	0.0099	5	06/11/26 12:31	06/12/26 08:56	7439-98-7	
Potassium, Dissolved	1150	mg/L	200	66.0	500	06/11/26 12:31	06/12/26 09:15	7440-09-7	
Selenium, Dissolved	0.018J	mg/L	0.025	0.0025	5	06/11/26 12:31	06/12/26 08:56	7782-49-2	
Sodium, Dissolved	28.4	mg/L	2.0	0.42	5	06/11/26 12:31	06/12/26 08:56	7440-23-5	
Thallium, Dissolved	0.0045	mg/L	0.0025	0.00085	5	06/11/26 12:31	06/12/26 08:56	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 12:53	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	06/12/26 11:59	06/12/26 15:42	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-DR-02		Lab ID: 92863858003		Collected: 06/03/26 12:14		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.0180	0.00540	9	06/18/26 15:25	06/18/26 17:56	7439-93-2	P4
Lithium, Dissolved	ND	mg/L	0.0180	0.00540	9	06/21/26 08:59	06/21/26 12:22	7439-93-2	P4
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	21400	mg/L	5.0	5.0	1		06/11/26 09:46		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/11/26 09:46		
Alkalinity, Total as CaCO ₃	21400	mg/L	5.0	5.0	1		06/11/26 09:46		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	32600	mg/L	2500	2500	1		06/06/26 16:45		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	0.025J	mg/L	0.10	0.022	1		06/09/26 04:58	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	6.1	mg/L	1.0	0.60	10		06/05/26 18:48	24959-67-9	
Chloride	11.4	mg/L	10.0	6.0	10		06/05/26 18:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/05/26 03:53	16984-48-8	
Sulfate	598	mg/L	10.0	5.0	10		06/05/26 18:48	14808-79-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.010	0.0022	5	06/11/26 12:31	06/12/26 13:51	7440-36-0	
Arsenic	0.0027J	mg/L	0.010	0.0020	5	06/11/26 12:31	06/12/26 13:51	7440-38-2	
Barium	0.074	mg/L	0.025	0.0028	5	06/11/26 12:31	06/12/26 13:51	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00075	5	06/11/26 12:31	06/12/26 13:51	7440-41-7	
Boron	2.3	mg/L	1.0	0.18	25	06/11/26 12:31	06/12/26 14:00	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00050	5	06/11/26 12:31	06/12/26 13:51	7440-43-9	
Calcium	1.7J	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 13:51	7440-70-2	
Chromium	0.0032J	mg/L	0.025	0.0012	5	06/11/26 12:31	06/12/26 13:51	7440-47-3	
Cobalt	0.0052J	mg/L	0.025	0.00060	5	06/11/26 12:31	06/12/26 13:51	7440-48-4	
Iron	ND	mg/L	0.20	0.082	5	06/11/26 12:31	06/12/26 13:51	7439-89-6	
Lead	ND	mg/L	0.025	0.0068	25	06/11/26 12:31	06/12/26 14:00	7439-92-1	1g
Magnesium	49.6	mg/L	0.25	0.12	5	06/11/26 12:31	06/12/26 13:51	7439-95-4	
Manganese	0.10	mg/L	0.025	0.0063	5	06/11/26 12:31	06/12/26 13:51	7439-96-5	
Molybdenum	0.022J	mg/L	0.050	0.0099	5	06/11/26 12:31	06/12/26 13:51	7439-98-7	
Potassium	15000	mg/L	400	132	1000	06/11/26 12:31	06/12/26 16:09	7440-09-7	
Selenium	0.029	mg/L	0.025	0.0025	5	06/11/26 12:31	06/12/26 13:51	7782-49-2	
Sodium	58.9	mg/L	2.0	0.42	5	06/11/26 12:31	06/12/26 13:51	7440-23-5	
Thallium	0.018	mg/L	0.012	0.0042	25	06/11/26 12:31	06/12/26 14:00	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Sample: MCD-DR-02		Lab ID: 92863858003		Collected: 06/03/26 12:14		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Antimony, Dissolved	ND	mg/L	0.010	0.0022	5	06/11/26 12:31	06/12/26 09:42	7440-36-0	P8
Arsenic, Dissolved	0.0021J	mg/L	0.010	0.0020	5	06/11/26 12:31	06/12/26 09:42	7440-38-2	
Barium, Dissolved	0.081	mg/L	0.025	0.0028	5	06/11/26 12:31	06/12/26 09:42	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.0020	0.00075	5	06/11/26 12:31	06/12/26 09:42	7440-41-7	
Boron, Dissolved	1.8	mg/L	1.0	0.18	25	06/11/26 12:31	06/12/26 09:51	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.0025	0.00050	5	06/11/26 12:31	06/12/26 09:42	7440-43-9	
Calcium, Dissolved	6.2	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 09:42	7440-70-2	
Chromium, Dissolved	0.0026J	mg/L	0.025	0.0012	5	06/11/26 12:31	06/12/26 09:42	7440-47-3	
Cobalt, Dissolved	0.0089J	mg/L	0.025	0.00060	5	06/11/26 12:31	06/12/26 09:42	7440-48-4	
Iron, Dissolved	ND	mg/L	0.20	0.082	5	06/11/26 12:31	06/12/26 09:42	7439-89-6	
Lead, Dissolved	ND	mg/L	0.025	0.0068	25	06/11/26 12:31	06/12/26 09:51	7439-92-1	2g
Magnesium, Dissolved	49.8	mg/L	0.25	0.12	5	06/11/26 12:31	06/12/26 09:42	7439-95-4	
Manganese, Dissolved	0.24	mg/L	0.025	0.0063	5	06/11/26 12:31	06/12/26 09:42	7439-96-5	
Molybdenum, Dissolved	0.016J	mg/L	0.050	0.0099	5	06/11/26 12:31	06/12/26 09:42	7439-98-7	
Potassium, Dissolved	12900	mg/L	200	66.0	500	06/11/26 12:31	06/12/26 10:01	7440-09-7	
Selenium, Dissolved	0.021J	mg/L	0.025	0.0025	5	06/11/26 12:31	06/12/26 09:42	7782-49-2	
Sodium, Dissolved	42.7	mg/L	2.0	0.42	5	06/11/26 12:31	06/12/26 09:42	7440-23-5	
Thallium, Dissolved	0.016	mg/L	0.012	0.0042	25	06/11/26 12:31	06/12/26 09:51	7440-28-0	
WCOL 7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 12:55	7439-97-6	
WCOL 7470 Mercury, Dissolved		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia							
Mercury, Dissolved	ND	mg/L	0.00020	0.000091	1	06/12/26 11:59	06/12/26 15:44	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Sample: MCD-DR-03		Lab ID: 92863858004		Collected: 06/03/26 13:52		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	0.00687	mg/L	0.00200	0.000600	1	06/17/26 08:42	06/17/26 22:28	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	38.1	mg/L	5.0	5.0	1		06/05/26 15:25		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/05/26 15:25		
Alkalinity, Total as CaCO ₃	38.1	mg/L	5.0	5.0	1		06/05/26 15:25		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	510	mg/L	25.0	25.0	1		06/06/26 16:46		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/09/26 04:58	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	0.18	mg/L	0.10	0.060	1		06/05/26 04:08	24959-67-9	
Chloride	16.7	mg/L	1.0	0.60	1		06/05/26 04:08	16887-00-6	
Fluoride	0.64	mg/L	0.10	0.050	1		06/05/26 04:08	16984-48-8	
Sulfate	267	mg/L	6.0	3.0	6		06/05/26 19:02	14808-79-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	06/11/26 12:31	06/12/26 14:19	7440-36-0	
Arsenic	0.0049	mg/L	0.0020	0.00041	1	06/11/26 12:31	06/12/26 14:19	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00056	1	06/11/26 12:31	06/12/26 14:19	7440-39-3	
Beryllium	0.0033	mg/L	0.00040	0.00015	1	06/11/26 12:31	06/12/26 14:19	7440-41-7	
Boron	4.9	mg/L	0.80	0.15	20	06/11/26 12:31	06/12/26 14:28	7440-42-8	
Cadmium	0.00062	mg/L	0.00050	0.00010	1	06/11/26 12:31	06/12/26 14:19	7440-43-9	
Calcium	53.2	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 16:00	7440-70-2	
Chromium	0.00028J	mg/L	0.0050	0.00024	1	06/11/26 12:31	06/12/26 14:19	7440-47-3	
Cobalt	0.38	mg/L	0.10	0.0024	20	06/11/26 12:31	06/12/26 14:28	7440-48-4	
Iron	0.94	mg/L	0.040	0.016	1	06/11/26 12:31	06/12/26 14:19	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	06/11/26 12:31	06/12/26 14:19	7439-92-1	
Magnesium	28.7	mg/L	0.050	0.024	1	06/11/26 12:31	06/12/26 14:19	7439-95-4	
Manganese	20.9	mg/L	1.0	0.25	200	06/11/26 12:31	06/12/26 14:37	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	06/11/26 12:31	06/12/26 14:19	7439-98-7	
Potassium	10.3	mg/L	0.40	0.13	1	06/11/26 12:31	06/12/26 14:19	7440-09-7	
Selenium	0.011	mg/L	0.0050	0.00050	1	06/11/26 12:31	06/12/26 14:19	7782-49-2	
Sodium	25.6	mg/L	0.40	0.083	1	06/11/26 12:31	06/12/26 14:19	7440-23-5	
Thallium	0.00097	mg/L	0.00050	0.00017	1	06/11/26 12:31	06/12/26 14:19	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Sample: MCD-DR-03		Lab ID: 92863858004		Collected: 06/03/26 13:52		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 12:58	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Sample: MCD-AP234-FB-1 Lab ID: 92863858005 Collected: 06/03/26 12:35 Received: 06/03/26 16:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	06/17/26 08:42	06/17/26 22:30	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/05/26 15:31		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/05/26 15:31		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		06/05/26 15:31		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/06/26 16:46		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/09/26 04:59	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		06/05/26 01:39	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		06/05/26 01:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/05/26 01:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/05/26 01:39	14808-79-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	06/11/26 12:31	06/12/26 14:46	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	06/11/26 12:31	06/12/26 14:46	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	06/11/26 12:31	06/12/26 14:46	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	06/11/26 12:31	06/12/26 14:46	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	06/11/26 12:31	06/12/26 14:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	06/11/26 12:31	06/12/26 14:46	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	06/11/26 12:31	06/12/26 14:46	7440-70-2	
Chromium	ND	mg/L	0.0050	0.00024	1	06/11/26 12:31	06/12/26 14:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	06/11/26 12:31	06/12/26 14:46	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	06/11/26 12:31	06/12/26 14:46	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	06/11/26 12:31	06/12/26 14:46	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	06/11/26 12:31	06/12/26 14:46	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	06/11/26 12:31	06/12/26 14:46	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	06/11/26 12:31	06/12/26 14:46	7439-98-7	
Potassium	ND	mg/L	0.40	0.13	1	06/11/26 12:31	06/12/26 14:46	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	06/11/26 12:31	06/12/26 14:46	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	06/11/26 12:31	06/12/26 14:46	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	06/11/26 12:31	06/12/26 14:46	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Sample: MCD-AP234-FB-1		Lab ID: 92863858005		Collected: 06/03/26 12:35		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 13:05	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-AP234-EB-1 Lab ID: 92863858006 Collected: 06/03/26 15:10 Received: 06/03/26 16:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B									
Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.00200	0.000600	1	06/17/26 08:42	06/17/26 22:33	7439-93-2	
2320B Alkalinity									
Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/05/26 15:34		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/05/26 15:34		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		06/05/26 15:34		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/06/26 16:46		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/09/26 05:00	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	ND	mg/L	0.10	0.060	1		06/05/26 01:54	24959-67-9	
Chloride	ND	mg/L	1.0	0.60	1		06/05/26 01:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/05/26 01:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/05/26 01:54	14808-79-8	
WC 6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.0020	0.00043	1	06/11/26 12:31	06/12/26 16:55	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.00041	1	06/11/26 12:31	06/12/26 16:55	7440-38-2	
Barium	ND	mg/L	0.0050	0.00056	1	06/11/26 12:31	06/12/26 16:55	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	06/11/26 12:31	06/12/26 16:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0073	1	06/11/26 12:31	06/12/26 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	06/11/26 12:31	06/12/26 16:55	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	06/11/26 12:31	06/12/26 16:55	7440-70-2	
Chromium	0.00029J	mg/L	0.0050	0.00024	1	06/11/26 12:31	06/12/26 16:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00012	1	06/11/26 12:31	06/12/26 16:55	7440-48-4	
Iron	ND	mg/L	0.040	0.016	1	06/11/26 12:31	06/12/26 16:55	7439-89-6	
Lead	ND	mg/L	0.0010	0.00027	1	06/11/26 12:31	06/12/26 16:55	7439-92-1	
Magnesium	ND	mg/L	0.050	0.024	1	06/11/26 12:31	06/12/26 16:55	7439-95-4	
Manganese	ND	mg/L	0.0050	0.0013	1	06/11/26 12:31	06/12/26 16:55	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0020	1	06/11/26 12:31	06/12/26 16:55	7439-98-7	
Potassium	0.20J	mg/L	0.40	0.13	1	06/11/26 12:31	06/12/26 16:55	7440-09-7	
Selenium	ND	mg/L	0.0050	0.00050	1	06/11/26 12:31	06/12/26 16:55	7782-49-2	
Sodium	ND	mg/L	0.40	0.083	1	06/11/26 12:31	06/12/26 16:55	7440-23-5	
Thallium	ND	mg/L	0.00050	0.00017	1	06/11/26 12:31	06/12/26 16:55	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-AP234-EB-1		Lab ID: 92863858006		Collected: 06/03/26 15:10		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 13:08	7439-97-6	

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-AP234-FD-1 Lab ID: 92863858007 Collected: 06/03/26 00:00 Received: 06/03/26 16:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet									
Lithium	ND	mg/L	0.0180	0.00540	9	06/18/26 15:25	06/18/26 17:59	7439-93-2	P4
2320B Alkalinity Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	31800	mg/L	5.0	5.0	1		06/11/26 09:55		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		06/11/26 09:55		
Alkalinity, Total as CaCO ₃	31800	mg/L	5.0	5.0	1		06/11/26 09:55		
2540C Total Dissolved Solids Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville									
Total Dissolved Solids	45400	mg/L	2500	2500	1		06/06/26 16:46		
4500S2D Sulfide Water Analytical Method: SM 4500-S2D-2021 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		06/09/26 05:00	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Bromide	11.1	mg/L	1.0	0.60	10		06/05/26 19:17	24959-67-9	
Chloride	10.5	mg/L	10.0	6.0	10		06/05/26 19:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/05/26 04:23	16984-48-8	
Sulfate	444	mg/L	10.0	5.0	10		06/05/26 19:17	14808-79-8	
WC 6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia									
Antimony	ND	mg/L	0.010	0.0022	5	06/11/26 12:31	06/12/26 17:05	7440-36-0	
Arsenic	0.0042J	mg/L	0.010	0.0020	5	06/11/26 12:31	06/12/26 17:05	7440-38-2	
Barium	0.13	mg/L	0.025	0.0028	5	06/11/26 12:31	06/12/26 17:05	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00075	5	06/11/26 12:31	06/12/26 17:05	7440-41-7	
Boron	1.4	mg/L	0.20	0.037	5	06/11/26 12:31	06/12/26 17:05	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00050	5	06/11/26 12:31	06/12/26 17:05	7440-43-9	
Calcium	9.1	mg/L	2.0	0.50	5	06/11/26 12:31	06/12/26 17:05	7440-70-2	
Chromium	0.0063J	mg/L	0.025	0.0012	5	06/11/26 12:31	06/12/26 17:05	7440-47-3	
Cobalt	0.0077J	mg/L	0.025	0.00060	5	06/11/26 12:31	06/12/26 17:05	7440-48-4	
Iron	0.19J	mg/L	0.20	0.082	5	06/11/26 12:31	06/12/26 17:05	7439-89-6	
Lead	ND	mg/L	0.025	0.0068	25	06/11/26 12:31	06/12/26 17:14	7439-92-1	
Magnesium	37.0	mg/L	0.25	0.12	5	06/11/26 12:31	06/12/26 17:05	7439-95-4	
Manganese	0.089	mg/L	0.025	0.0063	5	06/11/26 12:31	06/12/26 17:05	7439-96-5	
Molybdenum	0.014J	mg/L	0.050	0.0099	5	06/11/26 12:31	06/12/26 17:05	7439-98-7	
Potassium	20300	mg/L	400	132	1000	06/11/26 12:31	06/15/26 11:48	7440-09-7	
Selenium	0.041	mg/L	0.025	0.0025	5	06/11/26 12:31	06/12/26 17:05	7782-49-2	
Sodium	44.8	mg/L	2.0	0.42	5	06/11/26 12:31	06/12/26 17:05	7440-23-5	
Thallium	0.011J	mg/L	0.012	0.0042	25	06/11/26 12:31	06/12/26 17:14	7440-28-0	

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ANALYTICAL RESULTS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

Sample: MCD-AP234-FD-1		Lab ID: 92863858007		Collected: 06/03/26 00:00		Received: 06/03/26 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - West Columbia									
Mercury	ND	mg/L	0.00020	0.000091	1	06/12/26 09:56	06/12/26 13:15	7439-97-6	

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch: 2776059 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92863858002, 92863858004, 92863858005, 92863858006

METHOD BLANK: R4388874-1 Matrix: Water
Associated Lab Samples: 92863858002, 92863858004, 92863858005, 92863858006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	06/17/26 22:09	

LABORATORY CONTROL SAMPLE: R4388874-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0562	112	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4388874-4 R4388874-5

Parameter	Units	L1984993-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0633	0.0500	0.0500	0.111	0.111	95.8	95.0	75.0-125	0.323	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch: 2776928 Analysis Method: EPA 6020B
QC Batch Method: 3015 Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92863858001, 92863858003, 92863858007

METHOD BLANK: R4389390-1 Matrix: Water
Associated Lab Samples: 92863858001, 92863858003, 92863858007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	06/18/26 17:34	

LABORATORY CONTROL SAMPLE: R4389390-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0512	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4389390-4 R4389390-5

Parameter	Units	L1986323-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00591	0.0500	0.0500	0.0526	0.0533	93.4	94.9	75.0-125	1.40	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch:	2777752	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B, Dissolved
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92863858002

METHOD BLANK: R4389777-1 Matrix: Water
Associated Lab Samples: 92863858002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	ND	0.00200	0.000600	06/19/26 13:32	

LABORATORY CONTROL SAMPLE: R4389777-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	0.0500	0.0474	94.8	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4389777-4 R4389777-5

Parameter	Units	L1985790-12 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	ND	0.0500	0.0500	0.0477	0.0471	95.4	94.1	75.0-125	1.31	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch:	2778922	Analysis Method:	EPA 6020B
QC Batch Method:	3015	Analysis Description:	Metals (ICPMS) 6020B, Dissolved
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92863858003

METHOD BLANK: R4390276-1 Matrix: Water

Associated Lab Samples: 92863858003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	ND	0.00200	0.000600	06/21/26 12:16	

LABORATORY CONTROL SAMPLE: R4390276-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	0.0500	0.0486	97.1	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4390276-4 R4390276-5

Parameter	Units	92863858003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	ND	0.450	0.450	0.432	0.443	96.0	98.4	75.0-125	2.48	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch: 1014578 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92863858002, 92863858004, 92863858005, 92863858006

METHOD BLANK: 5217421 Matrix: Water
Associated Lab Samples: 92863858002, 92863858004, 92863858005, 92863858006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	06/05/26 13:25	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/05/26 13:25	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/05/26 13:25	

LABORATORY CONTROL SAMPLE: 5217422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.3	105	80-120	

LABORATORY CONTROL SAMPLE: 5217423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5217546 5217547

Parameter	Units	92863922001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	16.8	50	50	68.5	68.1	103	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5217548 5217549

Parameter	Units	92863922002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	83.3	50	50	136	133	106	100	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch: 1015323 Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92863858001, 92863858003, 92863858007

METHOD BLANK: 5221324 Matrix: Water
Associated Lab Samples: 92863858001, 92863858003, 92863858007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	06/11/26 09:17	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/11/26 09:17	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	5.0	06/11/26 09:17	

LABORATORY CONTROL SAMPLE: 5221325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 5221326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	51.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5221327 5221328

Parameter	Units	92864263001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	202	50	50	255	251	106	98	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

QC Batch:	1014824	Analysis Method:	SM 2540C-2020
QC Batch Method:	SM 2540C-2020	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007		

METHOD BLANK:	5219032	Matrix:	Water
Associated Lab Samples:	92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/06/26 16:41	

LABORATORY CONTROL SAMPLE:	5219033					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE:	5219034					
Parameter	Units	92864026001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	710	706	1	25	

SAMPLE DUPLICATE:	5219035					
Parameter	Units	92863802005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	202	203	0	25	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch:	1015097	Analysis Method:	SM 4500-S2D-2021
QC Batch Method:	SM 4500-S2D-2021	Analysis Description:	4500S2D Sulfide Water
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

METHOD BLANK: 5220102 Matrix: Water
Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	06/09/26 04:54	

LABORATORY CONTROL SAMPLE: 5220103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5220104 5220105

Parameter	Units	92863558001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.45	0.47	90	94	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5220108 5220109

Parameter	Units	92863901002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.51	102	102	80-120	0	10	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch: 1014465 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

METHOD BLANK: 5216916 Matrix: Water
Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Bromide	mg/L	ND	0.10	0.060	06/05/26 00:39	
Chloride	mg/L	ND	1.0	0.60	06/05/26 00:39	
Fluoride	mg/L	ND	0.10	0.050	06/05/26 00:39	
Sulfate	mg/L	ND	1.0	0.50	06/05/26 00:39	

LABORATORY CONTROL SAMPLE: 5216917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	2.5	2.4	96	90-110	
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5216918 5216919

Parameter	Units	92863858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	11.0	2.5	2.5	ND	ND	-442	-442	90-110		10	M1
Chloride	mg/L	10.4	50	50	45.9	47.9	71	75	90-110	4	10	M1
Fluoride	mg/L	ND	2.5	2.5	1.6	1.7	65	67	90-110	2	10	M1
Sulfate	mg/L	441	50	50	485	486	88	91	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5216920 5216921

Parameter	Units	92863930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	2.5	2.5	2.4	2.5	93	97	90-110	4	10	
Chloride	mg/L	12.0	50	50	61.0	62.3	98	101	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	106	110	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.8	54.1	105	107	90-110	3	10	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
5217474					5217475							
Parameter	Units	92863802005	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Bromide	mg/L	<0.060	2.5	2.5	2.5	2.4	98	98	90-110	0	10	
Chloride	mg/L	30.4	50	50	79.5	79.0	98	97	90-110	1	10	
Fluoride	mg/L	<0.050	2.5	2.5	2.9	2.8	114	113	90-110	1	10	M1
Sulfate	mg/L	0.63J	50	50	52.9	52.3	105	103	90-110	1	10	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch:	1015812	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	WC 6020B MET
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

METHOD BLANK: 5224415 Matrix: Water

Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00043	06/12/26 10:56	
Arsenic	mg/L	ND	0.0020	0.00041	06/12/26 10:56	
Barium	mg/L	ND	0.0050	0.00056	06/12/26 10:56	
Beryllium	mg/L	ND	0.00040	0.00015	06/12/26 10:56	
Boron	mg/L	ND	0.040	0.0073	06/12/26 10:56	
Cadmium	mg/L	ND	0.00050	0.00010	06/12/26 10:56	
Calcium	mg/L	ND	0.40	0.10	06/12/26 10:56	
Chromium	mg/L	ND	0.0050	0.00024	06/12/26 10:56	
Cobalt	mg/L	ND	0.0050	0.00012	06/12/26 10:56	
Iron	mg/L	ND	0.040	0.016	06/12/26 10:56	
Lead	mg/L	ND	0.0010	0.00027	06/12/26 10:56	
Magnesium	mg/L	ND	0.050	0.024	06/12/26 10:56	
Manganese	mg/L	ND	0.0050	0.0013	06/12/26 10:56	
Molybdenum	mg/L	ND	0.010	0.0020	06/12/26 10:56	
Potassium	mg/L	ND	0.40	0.13	06/12/26 10:56	
Selenium	mg/L	ND	0.0050	0.00050	06/12/26 10:56	
Sodium	mg/L	ND	0.40	0.083	06/12/26 10:56	
Thallium	mg/L	ND	0.00050	0.00017	06/12/26 10:56	

LABORATORY CONTROL SAMPLE: 5224416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.091	91	80-120	
Arsenic	mg/L	0.1	0.086	86	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.090	90	80-120	
Boron	mg/L	0.1	0.091	91	80-120	
Cadmium	mg/L	0.1	0.090	90	80-120	
Calcium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Iron	mg/L	1	0.96	96	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Manganese	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.091	91	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Selenium	mg/L	0.1	0.080	80	80-120	
Sodium	mg/L	1	0.94	94	80-120	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

LABORATORY CONTROL SAMPLE: 5224416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5224417 5224418

Parameter	Units	92863858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.068	0.064	68	64	75-125	5	20	M1
Arsenic	mg/L	0.0042J	0.1	0.1	0.12	0.11	115	102	75-125	11	20	
Barium	mg/L	0.13	0.1	0.1	0.12	0.14	-12	8	75-125	16	20	M1
Beryllium	mg/L	ND	0.1	0.1	0.062	0.055	61	55	75-125	11	20	M1
Boron	mg/L	1.5	0.1	0.1	1.4	1.3	-81	-207	75-125	9	20	M1
Cadmium	mg/L	ND	0.1	0.1	0.0072	0.0075	7	7	75-125	4	20	M1
Calcium	mg/L	8.4	1	1	9.8	11.1	148	276	75-125	12	20	M1
Chromium	mg/L	0.0066J	0.1	0.1	0.095	0.083	88	77	75-125	13	20	
Cobalt	mg/L	0.0040J	0.1	0.1	0.023J	0.019J	19	15	75-125		20	M1
Iron	mg/L	0.19J	1	1	0.94	0.77	75	58	75-125	20	20	M1
Lead	mg/L	ND	0.1	0.1	0.038	0.035	38	35	75-125	7	20	M1
Magnesium	mg/L	41.5	1	1	38.0	35.9	-347	-554	75-125	6	20	M1
Manganese	mg/L	0.064	0.1	0.1	0.13	0.050	69	-13	75-125	90	20	M1, R1
Molybdenum	mg/L	0.021J	0.1	0.1	0.11	0.099	88	78	75-125	10	20	
Potassium	mg/L	18800	1	1	18900	18400	6800	-46200	75-125	3	20	M1
Selenium	mg/L	0.047	0.1	0.1	0.15	0.13	100	86	75-125	10	20	
Sodium	mg/L	49.3	1	1	44.1	40.3	-516	-900	75-125	9	20	M1
Thallium	mg/L	0.012J	0.1	0.1	0.089	0.084	77	72	75-125	6	20	M1

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch: 1015811 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: WC 6020B MET Dissolved
Laboratory: Pace Analytical Services - West Columbia

Associated Lab Samples: 92863858002, 92863858003

METHOD BLANK: 5224410 Matrix: Water

Associated Lab Samples: 92863858002, 92863858003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	0.0010J	0.0020	0.00043	06/12/26 08:38	
Arsenic, Dissolved	mg/L	ND	0.0020	0.00041	06/12/26 08:38	
Barium, Dissolved	mg/L	ND	0.0050	0.00056	06/12/26 08:38	
Beryllium, Dissolved	mg/L	ND	0.00040	0.00015	06/12/26 08:38	
Boron, Dissolved	mg/L	ND	0.040	0.0073	06/12/26 08:38	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	06/12/26 08:38	
Calcium, Dissolved	mg/L	ND	0.40	0.10	06/12/26 08:38	
Chromium, Dissolved	mg/L	ND	0.0050	0.00024	06/12/26 08:38	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00012	06/12/26 08:38	
Iron, Dissolved	mg/L	ND	0.040	0.016	06/12/26 08:38	
Lead, Dissolved	mg/L	ND	0.0010	0.00027	06/12/26 08:38	
Magnesium, Dissolved	mg/L	ND	0.050	0.024	06/12/26 08:38	
Manganese, Dissolved	mg/L	ND	0.0050	0.0013	06/12/26 08:38	
Molybdenum, Dissolved	mg/L	ND	0.010	0.0020	06/12/26 08:38	
Potassium, Dissolved	mg/L	ND	0.40	0.13	06/12/26 08:38	
Selenium, Dissolved	mg/L	ND	0.0050	0.00050	06/12/26 08:38	
Sodium, Dissolved	mg/L	ND	0.40	0.083	06/12/26 08:38	
Thallium, Dissolved	mg/L	ND	0.00050	0.00017	06/12/26 08:38	

LABORATORY CONTROL SAMPLE: 5224411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.095	95	80-120	
Arsenic, Dissolved	mg/L	0.1	0.097	97	80-120	
Barium, Dissolved	mg/L	0.1	0.096	96	80-120	
Beryllium, Dissolved	mg/L	0.1	0.091	91	80-120	
Boron, Dissolved	mg/L	0.1	0.090	90	80-120	
Cadmium, Dissolved	mg/L	0.1	0.094	94	80-120	
Calcium, Dissolved	mg/L	1	1.0	100	80-120	
Chromium, Dissolved	mg/L	0.1	0.099	99	80-120	
Cobalt, Dissolved	mg/L	0.1	0.10	102	80-120	
Iron, Dissolved	mg/L	1	1.0	101	80-120	
Lead, Dissolved	mg/L	0.1	0.098	98	80-120	
Magnesium, Dissolved	mg/L	1	0.96	96	80-120	
Manganese, Dissolved	mg/L	0.1	0.10	101	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.090	90	80-120	
Potassium, Dissolved	mg/L	1	1.1	107	80-120	
Selenium, Dissolved	mg/L	0.1	0.096	96	80-120	
Sodium, Dissolved	mg/L	1	0.97	97	80-120	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

LABORATORY CONTROL SAMPLE: 5224411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium, Dissolved	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5224412 5224413

Parameter	Units	92864909002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony, Dissolved	mg/L	ND										
Arsenic, Dissolved	mg/L	ND										
Barium, Dissolved	mg/L	86.8 ug/L										
Beryllium, Dissolved	mg/L	ND										
Boron, Dissolved	mg/L	ND										
Cadmium, Dissolved	mg/L	ND										
Calcium, Dissolved	mg/L	28000 ug/L										
Chromium, Dissolved	mg/L	ND										
Cobalt, Dissolved	mg/L	ND										
Iron, Dissolved	mg/L	18800 ug/L										
Lead, Dissolved	mg/L	ND										
Magnesium, Dissolved	mg/L	ND										
Manganese, Dissolved	mg/L	1690 ug/L										
Molybdenum, Dissolved	mg/L	ND										
Potassium, Dissolved	mg/L	ND										
Selenium, Dissolved	mg/L	ND										
Sodium, Dissolved	mg/L	ND										
Thallium, Dissolved	mg/L	ND										

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

QC Batch:	1015890	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

METHOD BLANK: 5224967 Matrix: Water
Associated Lab Samples: 92863858001, 92863858002, 92863858003, 92863858004, 92863858005, 92863858006, 92863858007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	06/12/26 12:45	

LABORATORY CONTROL SAMPLE: 5224968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0021	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5224969 5224970

Parameter	Units	92863858004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0020	100	101	80-120	1	20	

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QUALITY CONTROL DATA

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

QC Batch:	1016105	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	WCOL 7470 Mercury, Dissolved
		Laboratory:	Pace Analytical Services - West Columbia

Associated Lab Samples: 92863858002, 92863858003

METHOD BLANK: 5225728 Matrix: Water

Associated Lab Samples: 92863858002, 92863858003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.000091	06/12/26 15:36	

LABORATORY CONTROL SAMPLE: 5225729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.002	0.0021	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5225730 5225731

Parameter	Units	92865192006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.002	0.002	0.0021	0.0021	104	104	80-120	1	20	

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QUALIFIERS

Project: Plant McDonough AP-234 Pilot
Pace Project No.: 92863858

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92863858

- [1] WSP
[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

- 1g The result for this analyte is reported from a diluted analysis due to an internal standard failure. The reporting limits have been adjusted accordingly.
2g The result for this analyte is reported from a diluted analysis due to an internal standard failure. The reporting limits have been adjusted accordingly.
J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4 Sample field preservation does not meet EPA or method recommendations for this analysis.
P8 Analyte was detected in the method blank. The analyte concentration in this sample is at least ten times greater than the blank or is below the reporting limit.
R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92863858001	MCD-INW-03	3015	2776928	EPA 6020B	2776928
92863858002	MCD-INW-04	3015	2776059	EPA 6020B	2776059
92863858002	MCD-INW-04	3015	2777752	EPA 6020B	2777752
92863858003	MCD-DR-02	3015	2776928	EPA 6020B	2776928
92863858003	MCD-DR-02	3015	2778922	EPA 6020B	2778922
92863858004	MCD-DR-03	3015	2776059	EPA 6020B	2776059
92863858005	MCD-AP234-FB-1	3015	2776059	EPA 6020B	2776059
92863858006	MCD-AP234-EB-1	3015	2776059	EPA 6020B	2776059
92863858007	MCD-AP234-FD-1	3015	2776928	EPA 6020B	2776928
92863858001	MCD-INW-03	SM 2320B-2021	1015323		
92863858002	MCD-INW-04	SM 2320B-2021	1014578		
92863858003	MCD-DR-02	SM 2320B-2021	1015323		
92863858004	MCD-DR-03	SM 2320B-2021	1014578		
92863858005	MCD-AP234-FB-1	SM 2320B-2021	1014578		
92863858006	MCD-AP234-EB-1	SM 2320B-2021	1014578		
92863858007	MCD-AP234-FD-1	SM 2320B-2021	1015323		
92863858001	MCD-INW-03	SM 2540C-2020	1014824		
92863858002	MCD-INW-04	SM 2540C-2020	1014824		
92863858003	MCD-DR-02	SM 2540C-2020	1014824		
92863858004	MCD-DR-03	SM 2540C-2020	1014824		
92863858005	MCD-AP234-FB-1	SM 2540C-2020	1014824		
92863858006	MCD-AP234-EB-1	SM 2540C-2020	1014824		
92863858007	MCD-AP234-FD-1	SM 2540C-2020	1014824		
92863858001	MCD-INW-03	SM 4500-S2D-2021	1015097		
92863858002	MCD-INW-04	SM 4500-S2D-2021	1015097		
92863858003	MCD-DR-02	SM 4500-S2D-2021	1015097		
92863858004	MCD-DR-03	SM 4500-S2D-2021	1015097		
92863858005	MCD-AP234-FB-1	SM 4500-S2D-2021	1015097		
92863858006	MCD-AP234-EB-1	SM 4500-S2D-2021	1015097		
92863858007	MCD-AP234-FD-1	SM 4500-S2D-2021	1015097		
92863858001	MCD-INW-03	EPA 300.0 Rev 2.1 1993	1014465		
92863858002	MCD-INW-04	EPA 300.0 Rev 2.1 1993	1014465		
92863858003	MCD-DR-02	EPA 300.0 Rev 2.1 1993	1014465		
92863858004	MCD-DR-03	EPA 300.0 Rev 2.1 1993	1014465		
92863858005	MCD-AP234-FB-1	EPA 300.0 Rev 2.1 1993	1014465		
92863858006	MCD-AP234-EB-1	EPA 300.0 Rev 2.1 1993	1014465		
92863858007	MCD-AP234-FD-1	EPA 300.0 Rev 2.1 1993	1014465		
92863858001	MCD-INW-03	EPA 3005A	1015812	EPA 6020B	1016206
92863858002	MCD-INW-04	EPA 3005A	1015812	EPA 6020B	1016206
92863858003	MCD-DR-02	EPA 3005A	1015812	EPA 6020B	1016206
92863858004	MCD-DR-03	EPA 3005A	1015812	EPA 6020B	1016206

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough AP-234 Pilot

Pace Project No.: 92863858

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92863858005	MCD-AP234-FB-1	EPA 3005A	1015812	EPA 6020B	1016206
92863858006	MCD-AP234-EB-1	EPA 3005A	1015812	EPA 6020B	1016206
92863858007	MCD-AP234-FD-1	EPA 3005A	1015812	EPA 6020B	1016206
92863858002	MCD-INW-04	EPA 3005A	1015811	EPA 6020B	1016207
92863858003	MCD-DR-02	EPA 3005A	1015811	EPA 6020B	1016207
92863858001	MCD-INW-03	EPA 7470A	1015890	EPA 7470A	1016284
92863858002	MCD-INW-04	EPA 7470A	1015890	EPA 7470A	1016284
92863858003	MCD-DR-02	EPA 7470A	1015890	EPA 7470A	1016284
92863858004	MCD-DR-03	EPA 7470A	1015890	EPA 7470A	1016284
92863858005	MCD-AP234-FB-1	EPA 7470A	1015890	EPA 7470A	1016284
92863858006	MCD-AP234-EB-1	EPA 7470A	1015890	EPA 7470A	1016284
92863858007	MCD-AP234-FD-1	EPA 7470A	1015890	EPA 7470A	1016284
92863858002	MCD-INW-04	EPA 7470A	1016105	EPA 7470A	1016286
92863858003	MCD-DR-02	EPA 7470A	1016105	EPA 7470A	1016286

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92863858



92863858

Courier:

☐ Commercial☐ Fed Ex☐ UPS☐ USPS☒ Client☐ Pace☐ Other:

Custody Seal Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☐ No☒ N/A

Date/Initials Person Examining Contents:

6/3/26
CAY

Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other

Thermometer:

☒ IR Gun ID:214
3.8

Type of Ice:

☒ Wet☐ Blue☐ None

Correction Factor:

Add/Subtract (°C)

0.0

Cooler Temp:

Cooler Temp Corrected (°C):

3.8

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Comments/Discrepancy:

Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☒ Yes ☐ No ☐ N/A	8.
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W	
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92863858

PM: BV

Due Date: 06/11/26

CLIENT: 92-GA Power

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kennerlyville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
CC																												
1		21				21	21																					
2		21				21	21																					
3		21				21	21																					
4		21				21	21																					
5		21				21	21																					
6		21				21	21																					
7		21				21	21																					
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

APPENDIX I

**Monitoring Well Installation
(DGWC-134, DGWC-135, and B-136D) Report**



November 11, 2025

Project No. US-WSP-31406440.McD23

Mr. Joju Abraham, PG

Southern Company Services
241 Ralph McGill Blvd., NE
Atlanta, Georgia 30308

**WELL DESIGN AND INSTALLATION REPORT (DGWC-134, DGWC-135, AND B-136D)
GEORGIA POWER COMPANY - PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Mr. Abraham,

WSP USA Inc. (WSP) is submitting this *Well Design and Installation Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power) to document the construction of two detection monitoring wells and one piezometer at Plant McDonough in Smyrna, Georgia (Site). Monitoring well/piezometer construction activities were performed in general accordance with the standards described in the United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, Operating Procedure for *Design and Installation of Monitoring Wells* (SESDGUID-101-R2 January 16, 2018) and the Georgia Water Wells Standards Act of 1985. Installation of the wells/piezometer was conducted under the oversight and direction of a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in September 2025. The field work consisted of the installation and development of two wells and one piezometer. Following installation, Metro Engineering & Surveying (Metro) conducted a survey of the installed wells/piezometer in September 2025. A summary of the activities is presented below. Figure 1 presents the location of each of the newly installed wells/piezometer.

Well Drilling and Construction Activities

The two wells and piezometer (DGWC-134, DGWC-135, and B-136D) were drilled and installed at the facility between September 5 and September 8, 2025 by Cascade Drilling, L.P. (Cascade), contracted through SCS. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling (Attachment A). The driller's name is provided on the boring/construction diagrams presented in Attachment B.

Drilling and well construction were completed under the supervision of a Professional Geologist registered to practice in Georgia. The rotosonic drilling technique was employed for borehole advancement, using a track-mounted TSI 150 rotosonic drill rig equipped with 4-inch sampling rods and a 6-inch casing sleeve. Continuous core samples were logged in the field for lithologic and geotechnical properties, then placed in core boxes and retained by SCS.

Downhole equipment was decontaminated prior to first use on site and between boreholes. The boring (lithologic) logs and well/piezometer construction records for the newly installed wells and piezometer are included in Attachment B. The construction data are summarized in Table 1, and the locations of the wells/piezometer are provided on Figure 1.

The two wells and piezometer were constructed within the borehole using factory-cleaned and sealed Schedule 40 polyvinyl chloride (PVC) products with flush-threaded fittings. Wells and the piezometer were constructed with a 10-foot section of 3.25-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.010-inch factory-slotted PVC U-Pack screen. The well depths for DGWC-134, DGWC-135, and B-136D are shown in Table 1.

A flush-threaded PVC end cap was placed on the bottom of each well/piezometer screen to provide a 0.40-foot sump/sediment trap and the annulus of the U-Pack screen section was filled with No. 2 filter sand, prior to insertion into the borehole. The screen was placed near the bottom of each borehole, with the remainder of the well/piezometer constructed from 10-foot sections of 2-inch ID, flush-threaded, PVC casing riser. The top of the wells/piezometer extend from approximately 2.5-feet above grade to 0.04-feet below grade. Construction details for the wells/piezometer are shown on the boring/construction logs in Attachment B. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated.

Following placement of the screen and casing, the annular space in each borehole adjacent to the screen was filled with approximately 1.75 cubic feet of US Standard Sieve size No. 2 filter pack sand as appropriate for the formation. The filter pack sand was placed into the borehole using the tremie-pipe method and extends a minimum of 2 feet above the top of the screen. Immediately following placement of the filter pack, the wells/piezometer were pumped using a portable submersible pump until visibly clear water was discharged. A filter pack seal, composed of approximately 3.3 to 5.0 feet (i.e., greater than the minimum of 2 feet) of 3/8" coated bentonite pellets (approximately 5 gallons) was then placed on top of the filter pack by slowly flowing the dry pellets by gravity down the borehole and checking the placement thickness with a weighted tape. Potable water was then added to the boring and the bentonite was allowed to hydrate for a minimum of two hours before proceeding with well completion.

Following hydration of the bentonite, the remaining annular space was grouted with AquaGuard® bentonite grout mixture to ground surface using a tremie method. Based on information provided by the product manufacturer, AquaGuard® is a bentonite grout consisting of bentonite and additives that allow for a mixture of 30% solids by weight to facilitate grouting via tremie pipe, with additives that slow the bentonite curing so that proper placement can be achieved. Well DGWC-134 surface completion consists of a below grade well casing fitted with a lockable PVC well cap and a bolted and sealed 8-inch round flush mounted road-box protective casing with a 4-foot by 4-foot by 4-inch concrete pad. Surface completions for well DGWC-135 and piezometer B-136D consist of a locked, anodized aluminum protective casing and 4-foot by 4-foot by 4-inch concrete pad with engraved tags showing the monitoring well names. The annular space of the aluminum protective casings were filled with pea gravel to approximately 2 inches from top of PVC. A weep hole was drilled into the lower side of the protective casing.

Well Development Activities

The newly installed wells/piezometer were developed September 17-18, 2025 in general accordance with the *Monitoring Well Development Procedures* prepared by SCS (March 2016), and the US EPA Science and Ecosystem Support Division *Design and Installation of Monitoring Wells* (February 2008). The wells/piezometer were surged using a Reclaimer pump system. During development, water quality measurements of pH,

temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity were periodically performed using field-calibrated water quality equipment after the recovered groundwater conditions improved after initial purging. An AquaTroll® multimeter and a Hach turbidimeter were used for monitoring/water quality measurements. Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a permanent marking at the top of the casing and recorded to within 0.01 foot. Equipment calibration forms and development forms are included in Attachment B with development details summarized in Table 2.

Well Survey

The newly installed wells/piezometer were surveyed on September 12, 2025, by Metro Survey and Engineering. The survey was completed using Leica GS18T (survey-grade) global positioning system receiver and a closed level check loop with a Leica DNA10 digital level with a positional tolerance of 0.5/0.01' H:V. The top of the PVC casing was surveyed to 0.5 foot horizontal and 0.01-foot vertical tolerance, and a marking was made on the PVC to use for reference during future measurements. Surveyed coordinates and elevations are presented on the boring/construction diagrams and in Table 1. The certified surveyor's report dated September 15, 2025 is attached as Attachment C.

Closing

We appreciate the opportunity to assist SCS and Georgia Power with this project. Should you have any questions or require additional information, please contact the undersigned at (404) 237-2115.

WSP USA, INC.



Dawn L. Prell, CPG

Technical Principal, Hydrogeologist

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.



Nicholas McMillan, PG

Georgia Registered Professional Geologist No. 2308

Attachments: Figure 1: Well Location Map
 Table 1: Summary of Well Construction Details
 Table 2: Summary of Well Development
 Attachment A: Cascade Drilling Bond
 Attachment B: Boring Logs/Construction Diagrams, Development Forms and Calibration Logs
 Attachment C: Certified Well Survey

Figure

Path: M:\Plant_McDonough\MAXDAP1_Well_Install_20251021_VER2.mxd



LEGEND

- NEWLY INSTALLED WELL
- NEWLY INSTALLED PIEZOMETER
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

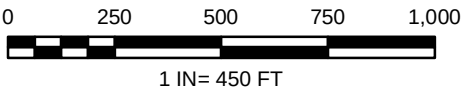
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JULY 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.

2. COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).

3. WELL LOCATIONS AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY ON SEPTEMBER 12, 2025.



CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON



PROJECT
WELL DESIGN AND INSTALLATION (DGWC-134, DGWC-135, AND B-136D) REPORT

TITLE
WELL LOCATION MAP

	CONSULTANT	YYYY-MM-DD	2025-10-22
	PREPARED	JMB	
	DESIGN	JMB	
	CHECKED	NJM	
	REVIEWED/APPROVED	DLP	

PROJECT No.
31406440.02

Rev.
1

FIGURE
1

Tables

TABLE 1
SUMMARY OF WELL CONSTRUCTION DETAILS
Georgia Power Company - Plant McDonough

Monitoring Well ID	Latitude	Longitude	NAD 83 Northing	NAD 83 Easting	Elevation On Top Of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Total Depth (feet bgs)	Screened Interval (feet bgs)	Top of Screen Elevation (feet NAVD88)	Bottom of Screen Elevation (feet NAVD88)	Screen Length (feet)	Water Level (feet btoc)	Date Installed
DGWC-134	N33.822808	W84.481892	1390732.5	2200850.4	764.64	764.68	25.4	15.0-25.0	749.68	739.68	10	10.48	9/5/2025
DGWC-135	N33.823370	W84.478928	1390933.9	2201751.0	795.15	792.66	39.0	28.6-38.6	764.06	754.06	10	25.40	9/3/2025
B-136D	N33.821546	W84.477259	1390269.0	2202256.1	778.09	775.57	75.1	64.7-74.7	710.87	700.87	10	52.49	9/4/2025

Notes:

Survey Data from Metro Engineering & Surveying Co., Inc.

ID - Identification

PVC - Polyvinyl chloride

NAD 83 - North American Datum 1983

NAVD88 - North American Vertical Datum 1988

bgs - Below ground surface

btoc - Below Top of Casing

Created by: MDM 10/3/2025

Checked by: JMB 10/16/2025



TABLE 2
SUMMARY OF WELL DEVELOPMENT
Georgia Power Company - Plant McDonough

Piezometer ID	Date Started	Time Started (hr:min)	Development Method	Measured Total Depth of Well (feet bTOC)	Initial Water level (feet bTOC)	Final Water Level (feet bTOC)	Initial Water Column Volume (gal)	Total Volume Removed (gal)	pH (SU)	Specific Conductance (mS/cm)	Temp (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
DGWC-134	9/18/2025	11:00	Reclaimer Pump	24.13	10.48	11.86	2.2	8.00	6.06	360.7	25.38	8.52	185.9	0.326
DGWC-135	9/17/2025	11:41	Reclaimer Pump	41.66	25.83	32.91	2.6	53.30	5.37	635.2	21.06	1.66	80.1	4.206
B-136D	9/17/2025	11:45	Reclaimer Pump	77.95	52.49	72.35	4.2	6.75	7.39	956.0	26.88	6.59	334.4	4.758

Notes:

hr:min - hours:minutes

bTOC - below Top of Casing

gal - gallons

SU - Standard Units

mS/cm - millisiemens per centimeter

°C - degrees Celcius

NTU - nephelometric turbidity units

mV - millivolts

mg/L - milligrams per liter

ORP - oxygen reduction potential

DO - dissolved oxygen

ID - Identification

PVC - Polyvinyl chloride

Temp - Temperature

Created by: MDM 10/3/2025

Checked by: JMB 10/16/2025

APPENDIX A

Cascade Drilling Bond

Bond Number 612424813**Performance Bond For Water Well Contractors**Name of Water Well Contractor Richard Alan Mooney

Know All Men By These Presents

That we Cascade Drilling, L.P. and Richard Alan Mooney

and all employees, officers and partners (collectively hereinafter, **Principal**), and we United States Fire Insurance Company, duly organized under the laws of the State of Delaware (hereinafter, **Surety**), are held and firmly bound unto the Director of the Environmental Protection Division, Department of Natural Resources, State of Georgia (**Director**) and his or her successor or successors in office, as **Obligee**, in the full sum of **THIRTY THOUSAND DOLLARS (\$30,000.00)** for the payment of which will and truly to be made, the Principal and Surety bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, by these presents.

WHEREAS, the Water Well Standards Act of 1985 (O.C.G.A. §§ 12-5-120 *et seq.*) (the Act) requires that a Water Well Contractor, as that term is defined by the Act, have a performance bond with the Director to ensure compliance with the Act; and WHEREAS the above bound Principal is subject to the terms and provisions of said Act.

NOW, THEREFORE, the conditions of this obligation are such that if the above bound Principal shall fully and faithfully perform the duties and in all things comply with the procedures and standards set forth in the Act as now and hereafter amended, and the rules and regulations promulgated pursuant thereto, including but not limited to the correction of any violation of such procedures and standards upon discovery, irrespective of whether such discovery is made before completion of any well subject to this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

And Surety, for value received, agrees that no amendment to existing laws, rules or regulations, or adoption of new laws, rules or regulations shall in anyway discharge its obligation on this bond, and does hereby waive notice of any such amendment, adoption or modification.

This bond shall be effective from the 30th day of June, 20 25 and shall continue in effect until June 30, 2027, unless sooner terminated by mutual agreement of Principal and Surety, provided that no such termination may be made unless sixty (60) days' prior written notice is made to the Director. In the event of such termination, the rights of the Director as Obligee and beneficiaries under this bond which arose prior to such termination shall continue.

IN WITNESS THEREOF the Principal and Surety have caused these present to be duly signed and sealed, this the 2nd day of May, 20 25.

Principal Cascade Drilling, L.P.**Surety** United States Fire Insurance Company

Print name:

Title:

Seal:

Print name: Melissa Haddick

Title: Attorney-in-Fact

Seal:

**POWER OF ATTORNEY
UNITED STATES FIRE INSURANCE COMPANY
PRINCIPAL OFFICE - MORRISTOWN, NEW JERSEY**

(PRODUCER CODE)

KNOW ALL MEN BY THESE PRESENTS: That United States Fire Insurance Company, a corporation duly organized and existing under the laws of the state of Delaware, has made, constituted and appointed, and does hereby make, constitute and appoint: **Sandra Parker; Melissa Haddick; Tannis Mattson; Orlando Aguirre; Stacy Killebrew; Madison Diaz and Megan Sivley** each, its true and lawful Attorney(s)-In-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver: Any and all bonds and undertakings of surety and other documents that the ordinary course of surety business may require, and to bind United States Fire Insurance Company thereby as fully and to the same extent as if such bonds or undertakings had been duly executed and acknowledged by the regularly elected officers of United States Fire Insurance Company at its principal office, in amounts or penalties: **One Hundred Twenty Five Million Eight Hundred Thousand Dollars (\$125,800,000)**

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind United States Fire Insurance Company except in the manner and to the extent therein stated.

This Power of Attorney is granted pursuant to Article IV of the By-Laws of United States Fire Insurance Company as now in full force and effect, and consistent with Article III thereof, which Articles provide, in pertinent part:

Article IV, Execution of Instruments - Except as the Board of Directors may authorize by resolution, the Chairman of the Board, President, any Vice-President, any Assistant Vice President, the Secretary, or any Assistant Secretary shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation.

Article III, Officers, Section 3.11, Facsimile Signatures. The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed, facsimile, lithographed or otherwise produced. In addition, if and as authorized by the Board of Directors, dividend warrants or checks, or other numerous instruments similar to one another in form, may be signed by the facsimile signature or signatures, lithographed or otherwise produced, of such officer or officers of the Corporation as from time to time may be authorized to sign such instruments on behalf of the Corporation. The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officer and its corporate seal hereunto affixed this 17th day of January, 2025.

UNITED STATES FIRE INSURANCE COMPANY



Matthew E. Lubin, President

State of New Jersey;
County of Morris }

On this 17th day of January, 2025, before me, a Notary public of the State of New Jersey, came the above named officer of United States Fire Insurance Company, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seal of United States Fire Insurance Company thereto by the authority of his office.



Ethan Schwartz (Notary Public)

I, the undersigned officer of United States Fire Insurance Company, a Delaware corporation, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of United States Fire Insurance Company on the ^{2nd} day of May 2025

UNITED STATES FIRE INSURANCE COMPANY

Michael C. Fay, Senior Vice President



*For verification of the authenticity of the Power of Attorney, please contact (phone number) or email: patricia.taber@amyntagroup.com

APPENDIX B

**Boring Logs/Construction
Diagrams, Development Forms and
Calibration Logs**

RECORD OF BOREHOLE: DGWC-134

Sheet 1 of 1

CLIENT: Southern Company START DATE: September 04, 2025 GS ELEVATION: 764.68 ft
PROJECT: Plant McDonough AP-1 END DATE: September 05, 2025 COORDINATES: N: 1390732.5 ft E: 2200850.4 ft
PROJECT NO: US-WSP-31406440.02 INCLINATION: 90.0° COORD SYS: SP GA West FIPS 1002 ft
LOCATION: Smyrna, GA CONTRACTOR: Cascade Environmental, LLC HORZ DATUM: NAD83 (2011)

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE			SAMPLES			CONSTRUCTION AND INSTALLATION DETAILS	GROUNDWATER OBSERVATIONS	WELL DIAGRAM	
			DESCRIPTION	USCS	STRATA PLOT	ELEV. DEPTH (ft)	NUMBER	TYPE				
1	Terra Sonic 150	Sonic	Hydrovac Cleared			0.0			WELL COMPLETION Pad Dimensions: 4' (L) x 4' (W) x 4" (D) WELL CASING Interval: 0.04 - 15.00 ft bgs Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush-threaded WELL SCREEN WITH END CAP Interval: 15.00 - 25.00 ft bgs Material: Schedule 40 PVC Diameter: 2" Slot Width: 0.010" Joint Type: Flush-threaded End Cap: 0.40 ft ANNULUS SEAL Interval: 0.00 - 7.95 ft bgs Type: AquaGuard® Bentonite Cement Grout FILTER PACK SEAL Interval: 7.95 - 12.95 ft bgs Type: Pel-Plug® Coated Bentonite Chip Seal Chip Size: 3/8" Hydration Period: 2-hr minimum FILTER PACK Interval: 12.95 - 25.40 ft bgs Type: Filter Pack Sand No. 2 Silica	18Sep25 00:00		End of hole at 25.40 ft.
2												
3												
4												
5												
6												
7												
8												
9												
10			(CL-ML) Sandy Clayey SILT; gray; wet			754.7						
11						10.0						
12												
13												
14			(SM) Sandy SILT; sand fine; gray to brown; micaceous, some clay, moist			750.7						
15						14.0						
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26						739.3						
27												
28												
29												
30												
31												



REV:
1

LOGGED: M. Mann
CHECKED: R. Nichols

DATE: Sep 04, 2025
DATE: Oct 20, 2025

Sheet 1 of 2

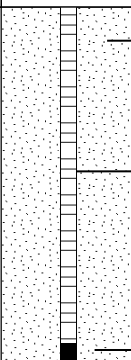
GS ELEVATION: 792.66 ft
COORDINATES: N: 1390933.9 ft E: 2201751.0 ft
COORD SYS: SP GA West FIPS 1002 ft
HORZ DATUM: NAD83 (2011)

HAMMER TYPE:				LOGGED: M. Mann CHECKED: R. Nichols	DATE: Sep 03, 2025 DATE: Oct 20, 2025	REV: 1
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RECORD OF BOREHOLE: DGWC-135

Sheet 2 of 2

CLIENT:	Southern Company	START DATE:	September 03, 2025	GS ELEVATION:	792.66 ft
PROJECT:	Plant McDonough AP-1	END DATE:	September 03, 2025	COORDINATES:	N: 1390933.9 ft E: 2201751.0 ft
PROJECT NO:	US-WSP-31406440.02	INCLINATION:	90.0°	COORD SYS:	SP GA West FIPS 1002 ft
LOCATION:	Smyrna, GA	CONTRACTOR:	Cascade Environmental, LLC	HORZ DATUM:	NAD83 (2011)

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE				SAMPLES			CONSTRUCTION AND INSTALLATION DETAILS	GROUNDWATER OBSERVATIONS	WELL DIAGRAM	
			DESCRIPTION	USCS	STRATA PLOT	ELEV. DEPTH (ft)	NUMBER	TYPE	REC %				
32	Terra Sonic 150	Sonic	(ML) Clayey SILT; tan to black; some sand; micaceous; moist to wet	ML			30' - 39'	Rotasonic	93				Nail Elev: 792.66 ft TOC Elev: 795.15 ft Filter Pack: #2 Silica Sand #2 SILICA SAND-FILLED U-PACK® SCHEDULE 40 PVC 0.010" SLOTTED SCREEN END CAP
33													
34													
35													
36													
37													
38													
39													
40			End of hole at 39.00 ft.			753.7							
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													

RECORD OF BOREHOLE: B-136D

Sheet 1 of 3

CLIENT: Southern Company START DATE: September 04, 2025 GS ELEVATION: 775.57 ft
PROJECT: Plant McDonough AP-1 END DATE: September 04, 2025 COORDINATES: N: 1390269.0 ft E: 2202256.1 ft
PROJECT NO: US-WSP-31406440.02 INCLINATION: 90.0° COORD SYS: SP GA West FIPS 1002 ft
LOCATION: Smyrna, GA CONTRACTOR: Cascade Environmental, LLC HORIZ DATUM: NAD83 (2011)

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE			SAMPLES			CONSTRUCTION AND INSTALLATION DETAILS	GROUNDWATER OBSERVATIONS	WELL DIAGRAM
			DESCRIPTION	USCS	STRATA PLOT	ELEV. DEPTH (ft)	NUMBER	TYPE			
1	Terra Sonic 150	Sonic	Hydrovac Cleared			0.0			WELL COMPLETION Pad Dimensions: 4' (L) x 4' (W) x 4" (D) WELL CASING Interval: 0.00 - 64.70 ft bgs Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush-threaded WELL SCREEN WITH END CAP Interval: 64.70 - 74.70 ft bgs Material: Schedule 40 PVC Diameter: 2" Slot Width: 0.010" Joint Type: Flush-threaded End Cap: 0.40 ft ANNULUS SEAL Interval: 0.00 - 59.05 ft bgs Type: AquaGuard® Bentonite Cement Grout FILTER PACK SEAL Interval: 59.05 - 62.30 ft bgs Type: Pel-Plug® Coated Bentonite Chip Seal Chip Size: 3/8" Hydration Period: 2-hr minimum FILTER PACK Interval: 62.30 - 75.10 ft bgs Type: Filter Pack Sand No. 2 Silica		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11			10.00 ft to 19.50 ft: No Recovery, core barrel blocked by boulder			765.6					
12						10.0					
13											
14											
15											
16											
17											
18											
19											
20			(GW) Sandy GRAVEL; gray to black; some coarse sand; wet			756.1					
21						19.5					
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											

Continued on Next Page

HAMMER TYPE:



LOGGED: M. Mann
CHECKED: R. Nichols

DATE: Sep 04, 2025
DATE: Oct 20, 2025

REV:
1

RECORD OF BOREHOLE: B-136D

Sheet 2 of 3

CLIENT: Southern Company
 PROJECT: Plant McDonough AP-1
 PROJECT NO: US-WSP-31406440.02
 LOCATION: Smyrna, GA

START DATE: September 04, 2025
 END DATE: September 04, 2025
 INCLINATION: 90.0°
 CONTRACTOR: Cascade Environmental, LLC

GS ELEVATION: 775.57 ft
 COORDINATES: N: 1390269.0 ft E: 2202256.1 ft
 COORD SYS: SP GA West FIPS 1002 ft
 HORZ DATUM: NAD83 (2011)

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE			SAMPLES			CONSTRUCTION AND INSTALLATION DETAILS	GROUNDWATER OBSERVATIONS	WELL DIAGRAM
			DESCRIPTION	USCS	STRATA PLOT	ELEV. DEPTH (ft)	NUMBER	TYPE	REC %		
32	Terra Sonic 150	Sonic	(CH) Silty CLAY; black to brown; some fine sand; soft; wet	CH							
33											
34											
35											
36											
37			(ML) Sandy Clayey SILT; black; soft; wet	ML		738.6					
38						37.0					
39											
40			(GW) Sandy GRAVEL; gray; rounded quartzite and gneiss cobbles; relic structure	GW		735.6					
41						40.0					
42											
43			(SC) Clayey SAND; red to brown; micaceous; relic structure; moist	SC		732.6					
44						43.0					
45											
46											
47											
48											
49											
50			(CH) Sandy Silty CLAY; gray; some gravel and Partially Weathered Rock; wet	CL		725.6					
51						50.0					
52											
53											
54											
55			(GW) Sandy GRAVEL with cobbles; gray; micaceous; Partially Weathered Rock; wet	GW		720.6					
56						55.0					
57											
58											
59											
60			Gneiss (bedrock); light to dark gray; fine to medium grained; strong foliation; slightly weathered			716.6					
61						59.0					
62											

Continued on Next Page

HAMMER TYPE:



LOGGED: M. Mann
 CHECKED: R. Nichols

DATE: Sep 04, 2025
 DATE: Oct 20, 2025

REV:
 1

Sheet 3 of 3

GS ELEVATION: 775.57 ft
COORDINATES: N: 1390269.0 ft E: 2202256.1 ft
COORD SYS: SP GA West FIPS 1002 ft
HORZ DATUM: NAD83 (2011)

HAMMER TYPE:				LOGGED: M. Mann		DATE: Sep 04, 2025		REV: 1
				CHECKED: R. Nichols		DATE: Oct 20, 2025		

WELL DEVELOPMENT FIELD RECORD

Page 1 of 1

PROJECT NAME / NUMBER MCD
 WELL DIA (IN) 2
 DEVELOPED BY J. Smith / D. Howard
 STARTED DEVEL 4-17-25
 DATE TIME
 W/L BEFORE DEVEL 1 1 1
 W/L DATE TIME
 WELL DEPTH BEFORE DEVEL 41.61
 STANDING WATER COLUMN (FT) 10
 SCREEN LENGTH 10

WELL ID MCD-H-135
 DATE OF INSTALL. 9/18/25 1247
 COMPLETED DEVEL 9/18/25 1247
 W/L AFTER DEVEL 32.91 9/18/25 1247 still recharging
 W/L DATE TIME
 WELL DEPTH AFTER DEVEL 41.66
 STANDING WELL VOLUME gal
 DRILLING WATER LOSS gal

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS
				pH (s.u.)	Sp Cond (mS/cm)	TEMP (°C)	Turbidity (NTU)	Color	ROD (mg/L)	ORP (mV)	
9-17-25 → 1141	0	2	25.83	5.98	594	22.43	247	brn	7.663	557.9	
1146	10	2	38.6	6.614	621.4	20.96	313	brn	8.141	453.9	
1151											DRY, Pause for recharge
1221	15	1.1	30.0	6.337	644.4	22.82	299		7.026	159.5	DRY, Pause for recharge
1307	15	1.1	30.0	6.449	634.7	20.91	87.8		8.060	394.2	
1309	20	1.1	37.01	6.609	643.8	20.98	89.4		8.237	532.7	
1314	25	1.1	39.91	6.621	644.0	21.01	120		8.221	529.6	
1318											DRY, Pause for recharge
1403	25	1.1	28.0	6.146	643.6	21.97	67.7		7.450	146.3	
1418	30	1	35.82	6.551	633.8	21.73	33.8		8.131	288.4	
1423	35	1	36.5	6.726	650.3	22.31	23.7		8.085	515.7	
1433	37.5	0.5	37.01	6.832	653.6	23.05	64.0		7.943	447.3	
1443	39	0.5	38.12	6.927	684.6	21.52	343		8.013	399.0	
1453	44.5	0.5	39.0	6.871	685.3	21.90	410		8.075	427.1	
1503	44	0.5	41.00	6.734	696.4	22.04	174		8.046	473.4	DRY, pause for recharge
1520											Return to normal
9/18/25 → 1106	0	0.2	25.93	6.167	589.0	26.09	146	6.220	5.108	159.8	Sarged well
1116	2.1	0.2	36.15	6.562	612.1	20.22	184	"	6.239	121.0	
1126	3.7	0.16	37.16	5.590	644.8	20.19	155	clearing	7.862	159.2	
1136	5.3	0.16	37.25	5.392	650.4	20.88	92.2	clearing	4.095	90.8	
1147	6.3	0.1	37.11	5.420	630.1	21.20	42.5	clearing	3.844	85.5	
1157	7.3	0.1	36.99	5.393	621.8	21.09	6.02	clear	4.014	87.1	
1207	8.3	0.1	36.96	5.400	604.7	20.75	1.79	clear	4.204	78.9	
1217	9.3	0.1	36.93	5.323	635.2	21.06	1.66	clear	4.206	80.1	
= TOTAL VOLUME REMOVED (gal)											

DEVELOPMENT METHOD

NOTES

WELL DEVELOPMENT FIELD RECORD

Page 1 of 1

PROJECT NAME / NUMBER PLANT McDERMOTTWELL ID: B1360WELL DIA (in) 2DEVELOPED BY EVER GUILLEN

DATE OF INSTALL

COMPLETED DEVEL

STARTED DEVEL 9-17-25 114511-17-25 1604WL BEFORE DEVEL 52.49 9-17-25 1145

WL AFTER DEVEL

72.35 9-17-25 1604WELL DEPTH BEFORE DEVEL 77.95

WELL DEPTH AFTER DEVEL

STANDING WATER COLUMN (FT) 25.51

STANDING WELL VOLUME

SCREEN LENGTH

DRILLING WATER LOSS

(gal)

(gal)

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft bgs)	FIELD PARAMETERS							REMARKS
				pH (s.u.)	Sp Cond (mS/cm)	TEMP (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)	
9-17/1247	0.1	200	52.44	7.59	924.9	27.97	32	CLEAR	4.203	175.8	
1252	0.25	200	54.56	7.51	935.0	22.89	37		2.303	197	
1257	0.5	200	58.31	7.48	927.6	23.66	33		6.816	239.1	
1302	0.75	150	62.47	7.46	935.8	23.71	27.2		2.594	251.3	
1307	1.0	125	64.61	7.45	944.4	22.88	208		2.650	269.8	SURGED
1312	1.25	100	65.72	7.47	922.2	23.13	146		9.939	245.7	
1317	1.50	100	66.28	7.42	934.4	25.57	167		4.041	277.5	
1322	1.75	100	66.59	7.41	953.3	26.75	143		3.387	199.9	
1329	2.0	100	66.92	7.38	953.8	28.24	121		3.146	237.2	
1337	2.25	100	67.18	7.35	955.6	28.95	283		3.238	244.1	
1342	2.5	100	67.22	7.34	953.0	30.12	194		3.116	208.4	
1348	2.75	100	67.30	7.30	913.7	32.01	333		3.028	263.0	
1423	3.0	100	67.83	7.30	931.3				3.152	257.7	
				7.28	922.9				3.166	281.2	
1433	3.25	100	68.38	7.29	922.9	33.08	199		3.166	281.2	
1443	3.5	100	68.51	7.39	938.6	30.06	297		3.999	336.7	
1448	3.75	100	68.61	7.39	951.7	30.31	101		3.510	333.8	
NEW FILE											
1501	4.0	150	69.03	7.45	965.6	28.89	101		3.819	279.2	
1506	4.25	150	69.15	7.43	951.0	28.87	138		3.660	335.0	
1512			69.58				68.9				
1517	4.5		69.84				47.7				INSTRUMENT NOT CONNECTING
NEW FILE											
1524	4.75	150	70.09	7.44	965.9	26.11	51.5		3.814	256.1	
1529	5.0	150	70.33	7.42	968.2	26.79	30.7		3.814	327.8	
1534	5.25	150	70.82	7.41	963.6	26.91	50.7		3.858	329.4	
1539	5.5	150	71.15	7.40	965.0	26.80	15.2		3.950	380.7	
1544	5.75	150	71.37	7.41	963.2	26.24	13.2		4.391	334.2	
1549	6.0	150	71.61	7.40	967.1	26.02	10.8		4.685	333.7	
1554	6.25	150	71.90	7.39	965.5	26.22	9.82		4.758	332.0	
1559	6.5	150	72.07	7.39	965.1	26.57	8.59		4.757	333.7	
1604	6.75	150	72.35	7.39	956.0	26.88	6.59		4.758	334.4	
= TOTAL VOLUME REMOVED (gal)											

DEVELOPMENT METHOD LOW FLOW w/ SURGINGNOTES 1510 INSTRUMENT CONNECTION PROBLEM -1524 REBOOT INSTRUMENTS & BEGIN NEW FILE

Site Name: Plant MCD

Field Instrumentation Calibration Form

Date: 9/17/25

Calibrated By:

Field Conditions: Sunny 60F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1146036
Turbidity Meter	Hach 2100Q	22090200086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	24014215	01/26	AIR
pH (SU)	4.00	24014215	↓	↓
pH (SU)	7.00	24014215		
pH (SU)	10.00	24014215		
D.O. (%)	N/A	24014215		
ORP (mV)	228.0	22090200086		

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4.490	25.00	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.00	23.09	± 0.1	GWMP
pH (SU)	7.00	7.00	22.53	± 0.1	GWMP
pH (SU)	10.00	10.00	24.16	± 0.1	GWMP
D.O. (%)	N/A	100%	20.94	$\pm 10\%$	NA
ORP (mV)	228.0	228	22.73	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.96	$\pm 10\%$ of standard	EPA 2023
	20	15.9		
	30	96.9		
	500	794		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4.392	35.16	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.00	25.08	± 0.1	GWMP
pH (SU)	7.00	7.01	34.96	± 0.1	GWMP
pH (SU)	10.00	10.02	35.64	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.78	$\pm 10\%$ of standard	EPA 2023
	20	19.2		
	30	98.1		
	500	792		

Notes:

Field Instrumentation Calibration Form

Site Name MDDate 9/17/25Field Conditions 803 sunnyCalibrated By JS

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	594
Turbidity Meter	Hach 2100Q	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	394		
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4445	27.2	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	4.05	50	± 0.1	GWMP
pH (SU)	7.00	6.88		± 0.1	GWMP
pH (SU)	10.00	9.97		± 0.1	GWMP
D.O. (%)	N/A	11.74		$\pm 10\%$	NA
ORP (mV)	228.0	221.3		± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.5	$\pm 10\%$ of standard	EPA 2023
	100	96.3		
	500	743		
	10	4.75		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}\text{C}$)	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	1555	23.0	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	5.07		± 0.1	GWMP
pH (SU)	7.00	6.48		± 0.1	GWMP
pH (SU)	10.00	4.99		± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.1	$\pm 10\%$ of standard	EPA 2023
	100	96		
	500	744		
	10	4.8		

Notes

Site Name: Plant MCDonogh

Field Instrumentation Calibration Form

Date: 9-18-25

Field Conditions: Hot-Humid-Clear

Calibrated By: EVER GUICEN

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1179231
Turbidity Meter	Hach 2100Q	830602000342

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (μ S/cm)	4,490	2401 4218		
pH (SU)	4.00	2401 4218		
pH (SU)	7.00	2401 4266		
pH (SU)	10.00	2401 1537		
D.O. (%)	N/A			
ORP (mV)	228.0	22490162		

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}$ C)	Acceptance Criteria	Reference
Specific Conductance (μ S/cm)	4,490	4554	23.14	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	3.81	23.87	± 0.1	GWMP
pH (SU)	7.00	6.67	23.89	± 0.1	GWMP
pH (SU)	10.00	9.52	23.91	± 0.1	GWMP
D.O. (%)	N/A	7.907	21.75	$\pm 10\%$	NA
ORP (mV)	228.0	230.5	24.03	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	2.0	20.3	$\pm 10\%$ of standard	EPA 2023
	100	98.3		
	800	809		
	10	10.0		

Calibration Check					
Time Start <u>1410</u>		Time Finish <u>1420</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature ($^{\circ}$ C)	Acceptance Criteria	Reference
Specific Conductance (μ S/cm)	4,490	4465	24.12	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	3.92	24.12	± 0.1	GWMP
pH (SU)	7.00	6.91	23.91	± 0.1	GWMP
pH (SU)	10.00	9.73	24.17	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	2.0	19.8	$\pm 10\%$ of standard	EPA 2023
	100	101		
	800	812		
	10	9.93		

Notes:

ATTACHMENT C

Certified Well Survey



1469 HIGHWAY 20 WEST • McDONOUGH, GA 30253
phone: 770-707-0777 fax: 770-707-0755
WWW.METRO-ENGINEERING.COM

SURVEYOR'S REPORT

SCOPE OF WORK:

Field survey of existing Monitoring Wells at Georgia Power Company, Plant McDonough in Smyrna, GA.

Horizontal and vertical datum was derived from RTK GPS observations with corrections received via a cellular modem utilizing the Leica "Smartnet" RTK Network and conventional surveying equipment. Horizontal datum is Georgia State Plane, West Zone, NAD83(2011) and vertical datum is NAVD88.

EQUIPMENT USED TO ESTABLISH THE MONITORING WELL LOCATIONS:

Leica GS18T GPS Receiver
Leica TS16 Total Station
Leica DNA10 Digital Level

CERTIFICATION:

I hereby certify that the center of well casing (PVC) has a horizontal accuracy of 0.5+/- feet or better using a Leica GS18T GPS (survey-grade) global positioning system receiver referencing the Georgia State Plane, West Zone, NAD83(2011) coordinate system in US survey feet. The top of well casing (PVC) elevation data was determined in feet above mean sea level based on the NAVD88 vertical datum. Vertical data was confirmed to be accurate within 0.01 foot through establishment of a closed level check loop with a Leica DNA10 digital level having a published accuracy of 0.9mm per dual-traverse Kilometer.

Field survey was completed on September 12, 2025.

Christopher G. Lea, GA. RLS #3427



Date: September 15, 2025

Plant McDonough
Monitoring Well Locations
September 12, 2025

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE (REBAR)
DGWC-134	N33.822808	W84.481892	1390732.4	2200849.4	764.68	1390732.5	2200850.4	764.64	764.42
DGWC-135	N33.823370	W84.478928	1390934.1	2201750.0	792.66	1390933.9	2201751.0	795.15	792.73
DGWC-136D	N33.821546	W84.477259	1390269.6	2202255.4	775.57	1390269.0	2202256.1	778.09	775.62



APPENDIX J

Well Design and Installation Report (INW-04)



November 11, 2025

Project No. US-WSP-31406440.McD23

Mr. Joju Abraham, PG

Southern Company Services
241 Ralph McGill Blvd., NE
Atlanta, Georgia 30308

**WELL DESIGN AND INSTALLATION REPORT (INW-04)
GEORGIA POWER COMPANY - PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Mr. Abraham,

WSP USA Inc. (WSP) is submitting this *Well Design and Installation Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power) to document the construction of one injection well at Plant McDonough in Smyrna, Georgia (Site). Monitoring well construction activities were performed in general accordance with the standards described in the United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, Operating Procedure for *Design and Installation of Monitoring Wells* (SESDGUID-101-R2 January 16, 2018) and the Georgia Water Wells Standards Act of 1985. Installation of the injection well was conducted under the oversight and direction of a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in August 2025. The field work consisted of the installation and development of one injection well. Following installation, Metro Engineering & Surveying (Metro) conducted a survey of the installed injection well on September 12, 2025. A summary of the activities is presented below. Figure 1 presents the location of the newly installed well.

Well Drilling and Construction Activities

The injection well (INW-04) was drilled and installed at the facility on August 7th, 2025 by Cascade Drilling, L.P. (Cascade), contracted through SCS. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling (Attachment A). The driller's name is provided on the boring/construction diagrams presented in Attachment B.

Drilling and well construction were completed under the supervision of a Professional Geologist registered to practice in Georgia. The rotosonic drilling technique was employed for borehole advancement, using a track-mounted TSI 150 rotosonic drill rig equipped with 4-inch sampling rods and a 6-inch casing sleeve. Continuous core samples were logged in the field for lithologic and geotechnical properties, then placed in core boxes and retained by SCS.

Downhole equipment was decontaminated prior to first use on site. The boring (lithologic) log and injection well construction record for the newly installed injection well is included in Attachment B. The construction data are summarized in Table 1, and the location of the well is provided on Figure 1.

The well was constructed within the borehole using factory-cleaned and sealed Schedule 40 polyvinyl chloride (PVC) products with flush-threaded fittings. The well was constructed with a 15-foot section of 3.25-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.020-inch factory-slotted PVC U-Pack screen. The well depth for INW-04 is shown in Table 1.

A flush-threaded PVC end cap was placed on the bottom of the well screen to provide a 0.40-foot sump/sediment trap and the annulus of the U-Pack screen section was filled with No. 1 filter sand, prior to insertion into the borehole. The screen was placed near the bottom of the borehole, with the remainder of the well constructed from 10-foot sections of 2-inch ID, flush-threaded, PVC casing riser. The top of the well is approximately 0.45-feet below grade. Construction details for the well are shown on the boring/construction logs in Attachment B. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated.

Following placement of the screen and casing, the annular space in the borehole adjacent to the screen was filled with 3.5 cubic feet of US Standard Sieve size No. 2 filter pack sand as appropriate for the formation. The filter pack sand was placed into the borehole using the tremie-pipe method and extends a minimum of 2 feet above the top of the screen. Immediately following placement of the filter pack, the injection well was pumped using a portable submersible pump until visibly clear water was discharged. A filter pack seal, composed of approximately 5.14 feet (i.e., greater than the minimum of 2 feet) of 3/8" coated bentonite pellets (approximately 5 gallons) was then placed on top of the filter pack by slowly flowing the dry pellets by gravity down the borehole and checking the placement thickness with a weighted tape. Potable water was then added to the boring and the bentonite was allowed to hydrate for a minimum of two hours before proceeding with well completion.

Following hydration of the bentonite, the remaining annular space was grouted with cement-bentonite grout mixture to ground surface using a tremie method. The surface completion consists of a below grade well casing fitted with a lockable PVC well cap and equipped with a bolted and sealed 8-inch round flush mounted road-box protective casing with a 2-foot by 2-foot by 4-inch concrete pad.

Well Development Activities

The newly installed well was developed on August 13-15th, 2025 in general accordance with the *Monitoring Well Development Procedures* prepared by SCS (March 2016), and the US EPA Science and Ecosystem Support Division *Design and Installation of Monitoring Wells* (February 2008). The well was surged using a Reclaimer pump system. During development, water quality measurements of pH, temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity were periodically performed using field-calibrated water quality equipment after the recovered groundwater conditions improved after initial purging. An AquaTroll® multimeter and a Hach turbidimeter were used for monitoring/water quality measurements. Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a permanent marking at the top of the casing and recorded to within 0.01 foot. Equipment calibration forms and development forms are included in Attachment B with development details summarized in Table 2.

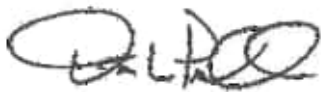
Well Survey

The newly installed well was surveyed on September 12, 2025 by Metro Survey and Engineering. The survey was completed using Leica GS18T (survey-grade) global positioning system receiver and a closed level check loop with a Leica DNA10 digital level with a positional tolerance of 0.5/0.01' H:V. The top of the PVC casing was surveyed to 0.5 foot horizontal and 0.01-foot vertical tolerance, and a marking was made on the PVC to use for reference during future measurements. Surveyed coordinates and elevations are presented on the boring/construction diagrams and in Table 1. The certified surveyor's report dated September 15, 2025 is attached as Attachment C.

Closing

We appreciate the opportunity to assist SCS and Georgia Power with this project. Should you have any questions or require additional information, please contact the undersigned at (404) 237-2115.

WSP USA, INC.



Dawn L. Prell, CPG
Technical Principal, Hydrogeologist

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.

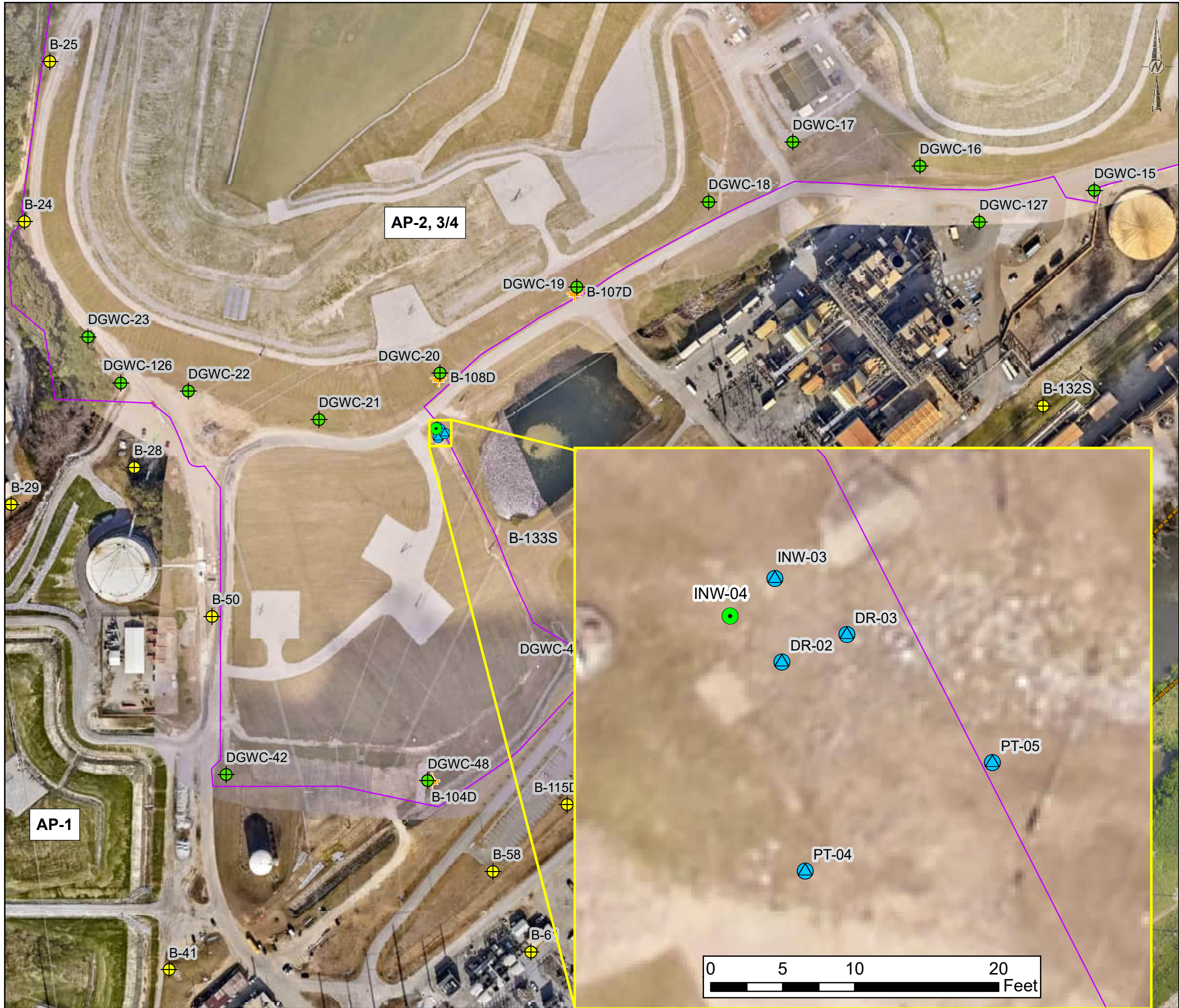


Nicholas McMillan, PG
Georgia Registered Professional Geologist No. 2308

Attachments: Figure 1: Well Location Map
Table 1: Summary of Well Construction Details
Table 2: Summary of Well Development
Attachment A: Cascade Drilling Bond
Attachment B: Boring Logs/Construction Diagrams, Development Forms and Calibration Logs
Attachment C: Certified Well Survey

Figure

Path: M:\Plant1_McDonough\AP234_INW04_Install_Report.mxd



LEGEND

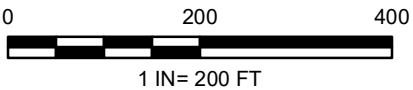
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- NEWLY INSTALLED WELL
- PILOT STUDY WELLS
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

- ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

- AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JULY 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.
- COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET).
- INJECTION WELL LOCATION AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY ON SEPTEMBER 12, 2025.



CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
WELL DESIGN AND INSTALLATION (INW-04) REPORT



TITLE WELL LOCATION MAP

	CONSULTANT	YYYY-MM-DD	2025-10-16
	PREPARED	JMB	
	DESIGN	JMB	
	CHECKED	NJM	
	REVIEWED/APPROVED	DLP	

PROJECT No. 31406440.02

Rev. 1

FIGURE 1

Tables

TABLE 1
SUMMARY OF WELL CONSTRUCTION DETAILS
Georgia Power Company - Plant McDonough

Monitoring Well ID	Latitude	Longitude	NAD 83 Northing	NAD 83 Easting	Elevation On Top Of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Total Depth (feet bgs)	Screened Interval (feet bgs)	Top of Screen Elevation (feet NAVD88)	Bottom of Screen Elevation (feet NAVD88)	Screen Length (feet)	Water Level (feet btoc)	Date Installed
INW-04	N33.826436	W84.477108	1392048.1	2202307.3	810.25	810.70	38.00	22.6-37.6	788.10	773.10	15	13.20	8/7/2025

Notes:

Survey Data from Metro Engineering & Surveying Co., Inc.

ID - Identification

PVC - Polyvinyl chloride

NAD 83 - North American Datum 1983

NAVD88 - North American Vertical Datum 1988

bgs - Below ground surface

btoc - Below Top of Casing

Created by: 10/03/2025 MDM

Checked by: 10/15/2025 JMB



TABLE 2
SUMMARY OF WELL DEVELOPMENT
Georgia Power Company - Plant McDonough

Piezometer ID	Date Started	Time Started (hr:min)	Development Method	Measured Total Depth of Well (feet bTOC)	Initial Water level (feet bTOC)	Final Water Level (feet bTOC)	Initial Water Column Volume (gal)	Total Volume Removed (gal)	pH (SU)	Specific Conductance (mS/cm)	Temp (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
INW-04	8/13/2025	10:22	Reclaimer Pump	38.11	13.04	13.60	4.09	329	5.746	2.357	27.32	4.01	168.1	0.685

Notes:
hr:min - hours:minutes
bTOC - below Top of Casing
gal - gallons
SU - Standard Units
mS/cm - millisiemens per centimeter
°C - degrees Celcius
NTU - nephelometric turbidity units

mV - millivolts
mg/L - milligrams per liter
ORP - oxygen reduction potential
DO - dissolved oxygen
ID - Identification
PVC - Polyvinyl chloride
Temp - Temperature

Created by: MDM 10/08/2025
Checked by: JMB 10/15/2025

APPENDIX A

Cascade Drilling Bond

Bond Number 612424813

Performance Bond For Water Well ContractorsName of Water Well Contractor Richard Alan Mooney

Know All Men By These Presents

That we Cascade Drilling, L.P. and Richard Alan Mooney
any and all employees, officers and partners (collectivelyhereinafter, **Principal**), and we United States Fire Insurance Company, duly organized under the laws of the State of Delaware (hereinafter, **Surety**), are held and firmly bound unto the Director of the Environmental Protection Division, Department of Natural Resources, State of Georgia (**Director**) and his or her successor or successors in office, as **Obligee**, in the full sum of **THIRTY THOUSAND DOLLARS (\$30,000.00)** for the payment of which will and truly to be made, the Principal and Surety bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, by these presents.WHEREAS, the Water Well Standards Act of 1985 (O.C.G.A. §§ 12-5-120 *et seq.*) (the Act) requires that a Water Well Contractor, as that term is defined by the Act, have a performance bond with the Director to ensure compliance with the Act; and WHEREAS the above bound Principal is subject to the terms and provisions of said Act.

NOW, THEREFORE, the conditions of this obligation are such that if the above bound Principal shall fully and faithfully perform the duties and in all things comply with the procedures and standards set forth in the Act as now and hereafter amended, and the rules and regulations promulgated pursuant thereto, including but not limited to the correction of any violation of such procedures and standards upon discovery, irrespective of whether such discovery is made before completion of any well subject to this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

And Surety, for value received, agrees that no amendment to existing laws, rules or regulations, or adoption of new laws, rules or regulations shall in anyway discharge its obligation on this bond, and does hereby waive notice of any such amendment, adoption or modification.

This bond shall be effective from the 30th day of June, 20 25 and shall continue in effect until June 30, 2027, unless sooner terminated by mutual agreement of Principal and Surety, provided that no such termination may be made unless sixty (60) days' prior written notice is made to the Director. In the event of such termination, the rights of the Director as Obligee and beneficiaries under this bond which arose prior to such termination shall continue.IN WITNESS THEREOF the Principal and Surety have caused these present to be duly signed and sealed, this the 2nd day of May, 20 25.**Principal** Cascade Drilling, L.P.**Surety** United States Fire Insurance Company

Print name:

Title:

Seal:



Print name: Melissa Haddick

Title: Attorney-in-Fact

Seal:

**POWER OF ATTORNEY
UNITED STATES FIRE INSURANCE COMPANY
PRINCIPAL OFFICE - MORRISTOWN, NEW JERSEY**

(PRODUCER CODE)

KNOW ALL MEN BY THESE PRESENTS: That United States Fire Insurance Company, a corporation duly organized and existing under the laws of the state of Delaware, has made, constituted and appointed, and does hereby make, constitute and appoint: **Sandra Parker; Melissa Haddick; Tannis Mattson; Orlando Aguirre; Stacy Killebrew; Madison Diaz and Megan Sivley** each, its true and lawful Attorney(s)-In-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver: Any and all bonds and undertakings of surety and other documents that the ordinary course of surety business may require, and to bind United States Fire Insurance Company thereby as fully and to the same extent as if such bonds or undertakings had been duly executed and acknowledged by the regularly elected officers of United States Fire Insurance Company at its principal office, in amounts or penalties: **One Hundred Twenty Five Million Eight Hundred Thousand Dollars (\$125,800,000)**

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind United States Fire Insurance Company except in the manner and to the extent therein stated.

This Power of Attorney is granted pursuant to Article IV of the By-Laws of United States Fire Insurance Company as now in full force and effect, and consistent with Article III thereof, which Articles provide, in pertinent part:

Article IV, Execution of Instruments - Except as the Board of Directors may authorize by resolution, the Chairman of the Board, President, any Vice-President, any Assistant Vice President, the Secretary, or any Assistant Secretary shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation.

Article III, Officers, Section 3.11, Facsimile Signatures. The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed, facsimile, lithographed or otherwise produced. In addition, if and as authorized by the Board of Directors, dividend warrants or checks, or other numerous instruments similar to one another in form, may be signed by the facsimile signature or signatures, lithographed or otherwise produced, of such officer or officers of the Corporation as from time to time may be authorized to sign such instruments on behalf of the Corporation. The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officer and its corporate seal hereunto affixed this 17th day of January, 2025.

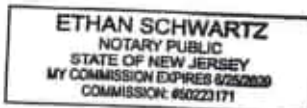
UNITED STATES FIRE INSURANCE COMPANY



Matthew E. Lubin, President

State of New Jersey
County of Morris

On this 17th day of January, 2025, before me, a Notary public of the State of New Jersey, came the above named officer of United States Fire Insurance Company, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seal of United States Fire Insurance Company thereto by the authority of his office.



Ethan Schwartz (Notary Public)

I, the undersigned officer of United States Fire Insurance Company, a Delaware corporation, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of United States Fire Insurance Company on the ^{2nd} day of May 20 25

UNITED STATES FIRE INSURANCE COMPANY

Michael C. Fay, Senior Vice President



*For verification of the authenticity of the Power of Attorney, please contact (phone number) or email: patricia.taber@amtyntagroup.com

APPENDIX B

**Boring Logs/Construction
Diagrams, Development Forms and
Calibration Logs**

RECORD OF BOREHOLE: INW-04

Sheet 1 of 2

CLIENT: Southern Company START DATE: August 07, 2025 GS ELEVATION: 810.70 ft
PROJECT: Plant McDonough AP-234 END DATE: August 07, 2025 COORDINATES: N: 1392048.1 ft E: 2202307.3 ft
PROJECT NO: US-WSP-31406440.02 INCLINATION: 90.0° COORD SYS: SP GA West FIPS 1002 ft
LOCATION: Smyrna, GA CONTRACTOR: Cascade Environmental, LLC HORZ DATUM: NAD83 (2011)

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE			SAMPLES			CONSTRUCTION AND INSTALLATION DETAILS	GROUNDWATER OBSERVATIONS	WELL DIAGRAM	
			DESCRIPTION	USCS	STRATA PLOT	ELEV. DEPTH (ft)	NUMBER	TYPE				
1	Terra Sonic 150	Sonic	No Recovery			0.0				WELL COMPLETION Pad Dimensions: 2' (L) x 2' (W) x 4" (D) WELL CASING Interval: 0.45 - 22.60 ft bgs Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush-threaded WELL SCREEN WITH END CAP Interval: 22.60 - 37.60 ft bgs Material: Schedule 40 PVC Diameter: 2" Slot Width: 0.020" Joint Type: Flush-threaded End Cap: 0.40 ft ANNULUS SEAL Interval: 0.00 - 14.86 ft bgs Type: Bentonite Cement Grout FILTER PACK SEAL Interval: 14.86 - 20.00 ft bgs Type: Pel-Plug® Coated Bentonite Chip Seal Chip Size: 3/8" Hydration Period: 2-hr minimum FILTER PACK Interval: 20.00 - 40.30 ft bgs Type: Filter Pack Sand No. 2 Silica	07Aug25 K 07.45	<



REV:
1

LOGGED: Terrell Parker
CHECKED: Rachel Nichols

DATE: Aug 07, 2025
DATE: Oct 20, 2025

RECORD OF BOREHOLE: INW-04

Sheet 2 of 2

CLIENT: Southern Company

PROJECT: Plant McDonough AP-234

PROJECT NO: US-WSP-31406440.02

LOCATION: Smyrna, GA

START DATE: August 07, 2025

END DATE: August 07, 2025

INCLINATION: 90.0°

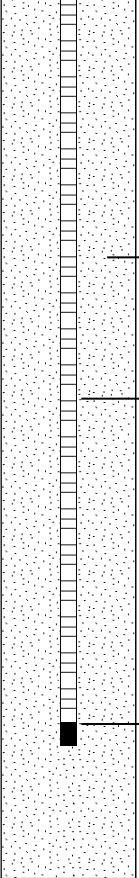
CONTRACTOR: Cascade Environmental, LLC

GS ELEVATION: 810.70 ft

COORDINATES: N: 1392048.1 ft E: 2202307.3 ft

COORD SYS: SP GA West FIPS 1002 ft

HORZ DATUM: NAD83 (2011)

DEPTH (ft)	DRILL RIG	DRILL METHOD	MATERIAL PROFILE				SAMPLES			CONSTRUCTION AND INSTALLATION DETAILS	GROUNDWATER OBSERVATIONS	WELL DIAGRAM	
			DESCRIPTION	USCS	STRATA PLOT	ELEV. DEPTH (ft)	NUMBER	TYPE	REC %			Nail Elev: 810.70 ft TOC Elev: 810.25 ft	
26	Terra Sonic 150	Sonic	(SM) Silty SAND; sand fine; dark brown; mottled with brown and orange; moderate plasticity; soft; moist	SM		784.2	30' - 40.3'	Rotasonic	88				
27			(SM) Silty SAND; sand fine; dark brown; mottled with brown and orange and black; micaceous; soft; moist			26.5							
28													
29													
30													
31													
32			(SM) Silty SAND; sand fine; brown; mottled with brown and orange and gray; micaceous; soft; moist			779.3							
33						31.4							
34													
35													
36													
37													
38													
39													
40													
41			Boring completed at 40.30 ft.			770.4							
42													
43													
44													
45													
46													
47													
48													
49													
50													



LOGGED: Terrell Parker
CHECKED: Rachel Nichols

DATE: Aug 07, 2025
DATE: Oct 20, 2025

REV:
1

Calibration Report

Instrument Aqua TROLL 400
Serial Number 1082822
Created 8/13/2025

Sensor **RDO**

Serial Number 1079619
Last Calibrated 8/13/2025

Calibration Details

Slope 0.88875103
Offset -0.000 mg/L

Calibration point 100%

Concentration 8.982 mg/L
Temperature 25.57 °C
Barometric Pressure 989.9 mbar

Sensor **Conductivity**

Serial Number 1082822
Last Calibrated 8/13/2025

Calibration Details

Offset 0.000 µS/cm
Cell Constant 0.907
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 1081452
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22528
Last Calibrated	8/13/2025

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	139.6 mV
Temperature	24.87 °C

Calibration Point 2

pH of Buffer	7.000 pH
pH mV	-9.5 mV
Temperature	25.07 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-177.0 mV
Temperature	25.33 °C

Slope and Offset 1

Slope	-49.7 mV/pH
Offset	-9.5 mV

Slope and Offset 2

Slope	-55.83 mV/pH
Offset	-9.5 mV

ORP

ORP Solution	ORP Standard
Offset	16.8 mV
Temperature	25.30 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080302
Created	8/14/2025

Sensor	RDO
--------	------------

Serial Number	1078430
Last Calibrated	8/14/2025

Calibration Details

Slope	0.9532002
Offset	-0.000 mg/L

Calibration point 100%

Concentration	9.214 mg/L
Temperature	20.48 °C
Barometric Pressure	988.7 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	1080302
Last Calibrated	8/14/2025

Calibration Details

Offset	0.000 µS/cm
Cell Constant	1.035
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	1080275
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	22508
Last Calibrated	8/14/2025

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	146.5 mV
Temperature	24.69 °C

Calibration Point 2

pH of Buffer	7.000 pH
pH mV	-9.8 mV
Temperature	24.90 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-175.8 mV
Temperature	24.82 °C

Slope and Offset 1

Slope	-52.11 mV/pH
Offset	-9.8 mV

Slope and Offset 2

Slope	-55.32 mV/pH
Offset	-9.8 mV

ORP

ORP Solution	ORP Standard
Offset	21.3 mV
Temperature	24.76 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 1082822
Created 8/15/2025

Sensor **RDO**

Serial Number 1079619
Last Calibrated 8/15/2025

Calibration Details

Slope 0.8908283
Offset -0.000 mg/L

Calibration point 100%

Concentration 8.656 mg/L
Temperature 27.60 °C
Barometric Pressure 992.1 mbar

Sensor **Conductivity**

Serial Number 1082822
Last Calibrated 8/15/2025

Calibration Details

Offset 0.000 µS/cm
Cell Constant 0.906
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 1081452
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	22528
Last Calibrated	8/15/2025

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.000 pH
pH mV	137.2 mV
Temperature	25.38 °C

Calibration Point 2

pH of Buffer	7.000 pH
pH mV	-8.8 mV
Temperature	26.27 °C

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-175.1 mV
Temperature	26.68 °C

Slope and Offset 1

Slope	-48.66 mV/pH
Offset	-8.8 mV

Slope and Offset 2

Slope	-55.42 mV/pH
Offset	-8.8 mV

ORP

ORP Solution	ORP Standard
Offset	22.8 mV
Temperature	26.69 °C

Low-Flow Test Report:

Test Date / Time: 8/13/2025 10:22:31 AM
Project: SCS McD (5)
Operator Name: Mark Mann

Location Name: MCD-INW-04 Latitude: 33.82718420308617 Longitude: -84.47516710327159 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23.11 ft Total Depth: 38.11 ft Initial Depth to Water: 13.04 ft	Pump Type: Reclaimer Tubing Type: LDPE Pump Intake From TOC: 33.11 ft Estimated Total Volume Pumped: 1159750 ml Flow Cell Volume: 90 ml Final Flow Rate: 1500 ml/min Final Draw Down: 12.61 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082822
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
8/13/2025 10:22 AM	00:00	6.235 pH	20.87 °C	1,505 µS/cm	5.917 mg/L	1,000 NTU	142.7 mV	22.90 ft	3,000 ml/min
8/13/2025 10:32 AM	10:00	6.295 pH	20.88 °C	1,794 µS/cm	5.627 mg/L	1,000 NTU	144.7 mV	26.05 ft	3,000 ml/min
8/13/2025 10:42 AM	20:00	6.313 pH	21.06 °C	1,865 µS/cm	6.078 mg/L	1,000 NTU	147.7 mV	27.38 ft	3,000 ml/min
8/13/2025 10:46 AM	23:46	6.226 pH	21.06 °C	1,903 µS/cm	5.755 mg/L	1,000 NTU	148.6 mV	27.38 ft	3,000 ml/min
8/13/2025 10:46 AM	24:13	6.225 pH	21.04 °C	1,904 µS/cm	5.757 mg/L		148.2 mV	28.77 ft	3,000 ml/min
8/13/2025 10:56 AM	34:13	6.305 pH	21.04 °C	1,936 µS/cm	6.188 mg/L		150.6 mV	29.40 ft	3,000 ml/min
8/13/2025 11:06 AM	44:13	6.323 pH	20.95 °C	1,979 µS/cm	6.287 mg/L		152.2 mV	29.40 ft	3,000 ml/min
8/13/2025 11:16 AM	54:13	6.327 pH	20.96 °C	1,999 µS/cm	6.376 mg/L		150.9 mV	29.40 ft	3,000 ml/min
8/13/2025 11:26 AM	01:04:13	6.322 pH	21.25 °C	2,023 µS/cm	6.391 mg/L		153.2 mV	29.40 ft	3,000 ml/min
8/13/2025 11:45 AM	01:22:30	6.346 pH	21.27 °C	2,150 µS/cm	6.283 mg/L	1,000 NTU	155.8 mV	30.50 ft	3,000 ml/min
8/13/2025 11:55 AM	01:32:30	6.308 pH	21.18 °C	2,089 µS/cm	6.253 mg/L		151.3 mV	30.50 ft	3,000 ml/min
8/13/2025 12:05 PM	01:42:30	6.374 pH	21.21 °C	2,134 µS/cm	6.461 mg/L	1,000 NTU	150.6 mV	30.29 ft	3,000 ml/min
8/13/2025 12:15 PM	01:52:30	6.395 pH	21.25 °C	2,183 µS/cm	6.524 mg/L		150.6 mV	30.29 ft	3,000 ml/min
8/13/2025 12:25 PM	02:02:30	6.376 pH	21.23 °C	2,141 µS/cm	6.490 mg/L	441.0 NTU	148.4 mV	31.00 ft	3,000 ml/min
8/13/2025 12:35 PM	02:12:30	6.393 pH	21.17 °C	2,160 µS/cm	6.584 mg/L		148.6 mV	31.00 ft	3,000 ml/min

8/13/2025 12:45 PM	02:22:30	6.392 pH	20.95 °C	2,154 µS/cm	6.518 mg/L	295.0 NTU	147.5 mV	31.80 ft	3,000 ml/min
8/13/2025 12:55 PM	02:32:30	6.401 pH	20.95 °C	2,182 µS/cm	6.560 mg/L	313.0 NTU	147.6 mV	32.08 ft	3,000 ml/min
8/13/2025 1:05 PM	02:42:30	6.288 pH	21.27 °C	2,194 µS/cm	5.922 mg/L		147.1 mV	32.08 ft	0.000 ml/min
8/13/2025 1:15 PM	02:52:30	6.231 pH	21.53 °C	2,266 µS/cm	5.449 mg/L		148.3 mV	32.08 ft	3,000 ml/min
8/13/2025 1:25 PM	03:02:30	6.271 pH	21.16 °C	2,230 µS/cm	5.974 mg/L	1,000 NTU	143.0 mV	29.57 ft	3,000 ml/min
8/13/2025 1:35 PM	03:12:30	6.348 pH	21.23 °C	2,274 µS/cm	6.164 mg/L		144.1 mV	29.57 ft	3,000 ml/min
8/13/2025 1:45 PM	03:22:30	6.352 pH	21.14 °C	2,170 µS/cm	6.394 mg/L	515.0 NTU	141.9 mV	31.20 ft	3,000 ml/min
8/13/2025 1:55 PM	03:32:30	6.367 pH	21.32 °C	2,179 µS/cm	6.465 mg/L		141.3 mV	31.20 ft	3,000 ml/min
8/13/2025 2:05 PM	03:42:30	6.387 pH	21.27 °C	2,208 µS/cm	6.482 mg/L	193.0 NTU	141.1 mV	31.60 ft	3,000 ml/min
8/13/2025 2:15 PM	03:52:30	6.397 pH	21.56 °C	2,201 µS/cm	6.403 mg/L		140.5 mV	31.60 ft	3,000 ml/min
8/13/2025 2:25 PM	04:02:30	6.395 pH	21.82 °C	2,199 µS/cm	6.308 mg/L	353.0 NTU	139.8 mV	32.46 ft	3,000 ml/min
8/13/2025 2:35 PM	04:12:30	6.401 pH	21.61 °C	2,236 µS/cm	6.422 mg/L	42.00 NTU	140.7 mV	32.34 ft	3,000 ml/min
8/13/2025 2:45 PM	04:22:30	6.373 pH	21.14 °C	2,229 µS/cm	6.355 mg/L		139.2 mV	32.34 ft	3,000 ml/min
8/13/2025 2:55 PM	04:33:04	6.412 pH	21.00 °C	2,243 µS/cm	6.525 mg/L	43.40 NTU	138.7 mV	32.18 ft	3,000 ml/min
8/13/2025 3:11 PM	04:48:41	6.398 pH	21.00 °C	2,254 µS/cm	6.432 mg/L	38.80 NTU	138.2 mV	32.18 ft	3,000 ml/min
8/13/2025 3:34 PM	05:11:35	6.573 pH	21.53 °C	2,244 µS/cm	7.044 mg/L	78.80 NTU	138.4 mV	32.27 ft	2,250 ml/min
8/13/2025 3:44 PM	05:21:35	6.329 pH	21.09 °C	2,271 µS/cm	6.152 mg/L		136.6 mV	32.27 ft	2,250 ml/min
8/13/2025 3:54 PM	05:31:35	6.311 pH	21.21 °C	2,277 µS/cm	5.985 mg/L	31.70 NTU	135.1 mV	31.45 ft	2,250 ml/min
8/13/2025 4:04 PM	05:41:35	6.289 pH	21.21 °C	2,282 µS/cm	5.935 mg/L	23.80 NTU	135.0 mV	31.48 ft	2,250 ml/min
8/13/2025 4:14 PM	05:51:35	6.270 pH	21.20 °C	2,292 µS/cm	5.991 mg/L		134.0 mV	31.48 ft	2,250 ml/min
8/13/2025 4:24 PM	06:01:35	6.258 pH	21.13 °C	2,300 µS/cm	6.030 mg/L	179.0 NTU	133.9 mV	30.88 ft	2,250 ml/min
8/13/2025 4:34 PM	06:11:35	6.271 pH	21.02 °C	2,324 µS/cm	5.906 mg/L		133.9 mV	30.88 ft	2,250 ml/min
8/13/2025 4:44 PM	06:21:35	6.258 pH	21.00 °C	2,273 µS/cm	5.883 mg/L	149.0 NTU	132.4 mV	30.22 ft	2,250 ml/min
8/13/2025 4:54 PM	06:31:35	6.090 pH	21.01 °C	2,305 µS/cm	4.213 mg/L	67.00 NTU	133.0 mV	29.80 ft	1,500 ml/min
8/13/2025 5:04 PM	06:41:35	6.024 pH	21.46 °C	2,324 µS/cm	3.181 mg/L	61.00 NTU	131.6 mV	28.00 ft	1,500 ml/min
8/13/2025 5:14 PM	06:51:35	5.980 pH	21.81 °C	2,327 µS/cm	2.779 mg/L	23.80 NTU	130.9 mV	26.55 ft	1,500 ml/min
8/13/2025 5:24 PM	07:01:35	5.911 pH	21.62 °C	2,332 µS/cm	1.879 mg/L	19.20 NTU	131.2 mV	25.02 ft	1,500 ml/min
8/13/2025 5:34 PM	07:11:35	5.876 pH	21.37 °C	2,331 µS/cm	1.509 mg/L		130.2 mV	25.73 ft	1,500 ml/min
8/13/2025 5:44 PM	07:21:35	5.865 pH	21.31 °C	2,323 µS/cm	1.377 mg/L	31.12 NTU	128.4 mV	25.65 ft	1,500 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/14/2025 10:16:44 AM
Project: SCS McD (6)
Operator Name: Jake Stucky

Location Name: MCD-INW-04 Latitude: 33.82718420308617 Longitude: -84.47516710327159 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23.11 ft Total Depth: 38.11 ft Initial Depth to Water: 14.33 ft	Pump Type: Reclaimer Tubing Type: LDPE Pump Intake From TOC: 33.11 ft Estimated Total Volume Pumped: 77936.664 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 13.47 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080302
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Test Notes:
Not complete

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
8/14/2025 10:16 AM	00:00	6.228 pH	20.98 °C	2,766 µS/cm	4.287 mg/L	1,000 NTU	183.1 mV	14.33 ft	200.0 ml/min
8/14/2025 10:26 AM	10:00	6.385 pH	20.78 °C	2,865 µS/cm	5.041 mg/L	340.0 NTU	181.8 mV	18.90 ft	200.0 ml/min
8/14/2025 10:36 AM	20:00	6.564 pH	20.66 °C	2,929 µS/cm	5.669 mg/L	1,000 NTU	181.6 mV	23.40 ft	200.0 ml/min
8/14/2025 10:46 AM	30:00	6.648 pH	20.67 °C	2,781 µS/cm	6.099 mg/L	777.0 NTU	178.3 mV	27.80 ft	200.0 ml/min
8/14/2025 10:56 AM	40:00	6.764 pH	20.72 °C	2,807 µS/cm	6.321 mg/L	495.0 NTU	178.1 mV	27.80 ft	200.0 ml/min
8/14/2025 11:06 AM	49:41	6.773 pH	20.72 °C	2,809 µS/cm	6.359 mg/L	321.0 NTU	177.9 mV	27.80 ft	200.0 ml/min
8/14/2025 11:16 AM	59:41	6.822 pH	20.79 °C	2,768 µS/cm	6.461 mg/L	135.0 NTU	174.2 mV	27.80 ft	200.0 ml/min
8/14/2025 11:26 AM	01:09:41	6.803 pH	20.84 °C	2,799 µS/cm	6.416 mg/L	227.0 NTU	175.4 mV	27.80 ft	200.0 ml/min
8/14/2025 11:36 AM	01:19:41	6.990 pH	21.10 °C	2,695 µS/cm	6.858 mg/L	100.0 NTU	171.2 mV	27.80 ft	200.0 ml/min
8/14/2025 11:46 AM	01:29:41	6.876 pH	21.02 °C	2,761 µS/cm	6.666 mg/L	60.30 NTU	168.9 mV	27.80 ft	200.0 ml/min
8/14/2025 11:56 AM	01:39:41	6.876 pH	20.96 °C	2,845 µS/cm	6.620 mg/L	46.80 NTU	164.1 mV	27.80 ft	200.0 ml/min
8/14/2025 12:06 PM	01:49:41	6.370 pH	21.32 °C	2,851 µS/cm	4.422 mg/L	14.20 NTU	161.6 mV	27.80 ft	200.0 ml/min
8/14/2025 12:16 PM	01:59:41	6.799 pH	21.15 °C	2,836 µS/cm	6.501 mg/L	35.10 NTU	157.5 mV	27.80 ft	200.0 ml/min
8/14/2025 12:26 PM	02:09:41	6.878 pH	21.18 °C	2,881 µS/cm	6.582 mg/L	44.00 NTU	151.1 mV	27.80 ft	200.0 ml/min
8/14/2025 12:36 PM	02:19:41	6.914 pH	21.37 °C	2,924 µS/cm	6.617 mg/L	87.70 NTU	145.9 mV	27.80 ft	200.0 ml/min

8/14/2025 12:46 PM	02:29:41	6.826 pH	21.04 °C	2,898 µS/cm	6.458 mg/L	43.90 NTU	137.2 mV	27.80 ft	200.0 ml/min
8/14/2025 12:56 PM	02:39:41	6.924 pH	21.43 °C	2,899 µS/cm	6.609 mg/L	31.90 NTU	122.3 mV	27.80 ft	200.0 ml/min
8/14/2025 1:06 PM	02:49:41	6.935 pH	21.49 °C	2,878 µS/cm	6.623 mg/L	20.00 NTU	110.1 mV	27.80 ft	200.0 ml/min
8/14/2025 1:16 PM	02:59:41	6.933 pH	21.41 °C	2,874 µS/cm	6.631 mg/L	45.00 NTU	102.4 mV	27.80 ft	200.0 ml/min
8/14/2025 1:26 PM	03:09:41	6.939 pH	21.39 °C	2,880 µS/cm	6.650 mg/L	21.70 NTU	96.7 mV	27.80 ft	200.0 ml/min
8/14/2025 1:36 PM	03:19:41	6.942 pH	21.48 °C	2,885 µS/cm	6.641 mg/L	19.60 NTU	93.2 mV	27.80 ft	200.0 ml/min
8/14/2025 1:46 PM	03:29:41	6.945 pH	21.55 °C	2,890 µS/cm	6.625 mg/L	32.60 NTU	91.1 mV	27.80 ft	200.0 ml/min
8/14/2025 1:56 PM	03:39:41	6.973 pH	21.28 °C	2,859 µS/cm	6.740 mg/L	84.00 NTU	90.7 mV	27.80 ft	200.0 ml/min
8/14/2025 2:06 PM	03:49:41	6.939 pH	21.51 °C	2,857 µS/cm	6.655 mg/L	101.0 NTU	92.0 mV	27.80 ft	200.0 ml/min
8/14/2025 2:16 PM	03:59:41	6.944 pH	21.46 °C	2,890 µS/cm	6.648 mg/L	56.00 NTU	90.9 mV	27.80 ft	200.0 ml/min
8/14/2025 2:26 PM	04:09:41	6.947 pH	21.55 °C	2,900 µS/cm	6.642 mg/L	86.50 NTU	89.1 mV	27.80 ft	200.0 ml/min
8/14/2025 2:36 PM	04:19:41	6.947 pH	21.52 °C	2,900 µS/cm	6.631 mg/L	25.30 NTU	88.4 mV	27.80 ft	200.0 ml/min
8/14/2025 2:46 PM	04:29:41	6.952 pH	21.28 °C	2,908 µS/cm	6.665 mg/L	30.20 NTU	87.9 mV	27.80 ft	200.0 ml/min
8/14/2025 2:56 PM	04:39:41	6.833 pH	21.47 °C	2,907 µS/cm	6.468 mg/L	23.30 NTU	90.3 mV	27.80 ft	200.0 ml/min
8/14/2025 3:06 PM	04:49:41	6.815 pH	21.25 °C	2,913 µS/cm	6.465 mg/L	36.10 NTU	92.6 mV	27.80 ft	200.0 ml/min
8/14/2025 3:16 PM	04:59:41	6.753 pH	21.19 °C	2,929 µS/cm	6.306 mg/L	34.10 NTU	94.5 mV	27.80 ft	200.0 ml/min
8/14/2025 3:26 PM	05:09:41	6.811 pH	21.33 °C	2,912 µS/cm	6.458 mg/L	22.00 NTU	94.7 mV	27.80 ft	200.0 ml/min
8/14/2025 3:36 PM	05:19:41	6.818 pH	21.40 °C	2,913 µS/cm	6.464 mg/L	34.10 NTU	95.4 mV	27.80 ft	200.0 ml/min
8/14/2025 3:46 PM	05:29:41	6.755 pH	21.51 °C	2,898 µS/cm	6.367 mg/L	23.30 NTU	97.0 mV	27.80 ft	200.0 ml/min
8/14/2025 3:56 PM	05:39:41	6.595 pH	21.63 °C	2,887 µS/cm	5.901 mg/L	18.20 NTU	100.2 mV	27.80 ft	200.0 ml/min
8/14/2025 4:06 PM	05:49:41	6.500 pH	21.55 °C	2,893 µS/cm	5.486 mg/L	24.60 NTU	100.5 mV	27.80 ft	200.0 ml/min
8/14/2025 4:16 PM	05:59:41	6.492 pH	21.50 °C	2,896 µS/cm	5.537 mg/L	94.80 NTU	105.3 mV	27.80 ft	200.0 ml/min
8/14/2025 4:26 PM	06:09:41	6.498 pH	21.47 °C	2,915 µS/cm	5.577 mg/L	26.00 NTU	106.6 mV	27.80 ft	200.0 ml/min
8/14/2025 4:36 PM	06:19:41	6.508 pH	21.55 °C	2,926 µS/cm	5.565 mg/L	26.10 NTU	107.3 mV	27.80 ft	200.0 ml/min
8/14/2025 4:46 PM	06:29:41	6.516 pH	21.63 °C	2,926 µS/cm	5.554 mg/L	25.00 NTU	108.1 mV	27.80 ft	200.0 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/15/2025 9:42:07 AM
Project: MCD-INW-04
Operator Name: Jake Stucky

Location Name: MCD-INW-04 Latitude: 33.82648055898404 Longitude: -84.47717811453109 Well Diameter: 2 in Casing Type: PVC Screen Length: 15 ft Top of Screen: 23.11 ft Total Depth: 38.11 ft Initial Depth to Water: 13.24 ft	Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 6876.667 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082822
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Test Notes:
Final purge proving development. Low flow test for samples to follow

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10%	+/- 5 %	+/- 0.2	+/- 5	+/- 10%	+/- 5	
8/15/2025 9:42 AM	00:00	5.718 pH	27.69 °C	2.325 mS/cm	0.897 mg/L	6.290 NTU	172.6 mV	13.24 ft	200.0 ml/min
8/15/2025 9:47 AM	05:00	5.748 pH	26.81 °C	2.355 mS/cm	0.926 mg/L	5.890 NTU	170.3 mV	13.45 ft	200.0 ml/min
8/15/2025 9:52 AM	10:00	5.751 pH	26.77 °C	2.364 mS/cm	1.030 mg/L	5.200 NTU	171.9 mV	13.60 ft	200.0 ml/min
8/15/2025 9:57 AM	15:00	5.750 pH	26.79 °C	2.361 mS/cm	0.913 mg/L	5.030 NTU	169.2 mV	13.60 ft	200.0 ml/min
8/15/2025 10:02 AM	20:00	5.751 pH	27.18 °C	2.359 mS/cm	0.811 mg/L	4.610 NTU	168.8 mV	13.60 ft	200.0 ml/min
8/15/2025 10:07 AM	25:00	5.749 pH	27.28 °C	2.357 mS/cm	0.785 mg/L	4.360 NTU	168.5 mV	13.60 ft	200.0 ml/min
8/15/2025 10:11 AM	29:23	5.750 pH	27.33 °C	2.352 mS/cm	0.750 mg/L	4.110 NTU	165.8 mV	13.60 ft	200.0 ml/min
8/15/2025 10:16 AM	34:23	5.746 pH	27.32 °C	2.357 mS/cm	0.685 mg/L	4.010 NTU	168.1 mV	13.60 ft	200.0 ml/min

Samples

Sample ID:	Description:
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ATTACHMENT C

Certified Well Survey



1469 HIGHWAY 20 WEST • McDONOUGH, GA 30253
phone: 770-707-0777 fax: 770-707-0755
WWW.METRO-ENGINEERING.COM

SURVEYOR'S REPORT

SCOPE OF WORK:

Field survey of existing Monitoring Wells at Georgia Power Company, Plant McDonough in Smyrna, GA.

Horizontal and vertical datum was derived from RTK GPS observations with corrections received via a cellular modem utilizing the Leica "Smartnet" RTK Network and conventional surveying equipment. Horizontal datum is Georgia State Plane, West Zone, NAD83(2011) and vertical datum is NAVD88.

EQUIPMENT USED TO ESTABLISH THE MONITORING WELL LOCATIONS:

Leica GS18T GPS Receiver
Leica TS16 Total Station
Leica DNA10 Digital Level

CERTIFICATION:

I hereby certify that the center of well casing (PVC) has a horizontal accuracy of 0.5+/- feet or better using a Leica GS18T GPS (survey-grade) global positioning system receiver referencing the Georgia State Plane, West Zone, NAD83(2011) coordinate system in US survey feet. The top of well casing (PVC) elevation data was determined in feet above mean sea level based on the NAVD88 vertical datum. Vertical data was confirmed to be accurate within 0.01 foot through establishment of a closed level check loop with a Leica DNA10 digital level having a published accuracy of 0.9mm per dual-traverse Kilometer.

Field survey was completed on September 12, 2025.

Christopher G. Lea, GA. RLS #3427



Date: September 15, 2025

Plant McDonough
Monitoring Well Locations
September 12, 2025

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE (REBAR)
INW-04	N33.826436	W84.477108	1392048.3	2202308.0	810.70	1392048.1	2202307.3	810.25	810.63



wsp



APPENDIX K

Well Design and Installation Report (INW-05)



March 20, 2026

Project No. US-WSP-31406440.McD23

Mr. Joju Abraham, PG

Southern Company Services
241 Ralph McGill Blvd., NE
Atlanta, Georgia 30308

**WELL DESIGN AND INSTALLATION (INW-05) REPORT
GEORGIA POWER COMPANY - PLANT MCDONOUGH, SMYRNA, GEORGIA**

Dear Mr. Abraham,

WSP USA Inc. (WSP) is submitting this *Well Design and Installation Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power) to document the construction of one well at Plant McDonough in Smyrna, Georgia (Site). Monitoring well construction activities were performed in general accordance with the standards described in the United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, Operating Procedure for *Design and Installation of Monitoring Wells* (SESDGUID-101-R2 January 16, 2018) and the Georgia Water Wells Standards Act of 1985. Installation of the injection well was conducted under the oversight and direction of a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed in January and February 2026. The field work consisted of the installation and development of one injection well. Following installation, Metro Engineering & Surveying (Metro) conducted a survey of the installed injection well on January 20, 2026. A summary of the activities is presented below. Figure 1 presents the location of the newly installed well.

Well Drilling and Construction Activities

The injection well (INW-05) was drilled and installed at the facility on January 7th, 2026 by Cascade Drilling, L.P. (Cascade), contracted through SCS. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling (Attachment A). The driller's name is provided on the boring/construction diagrams presented in Attachment B.

Drilling and well construction were completed under the supervision of a Professional Geologist registered to practice in Georgia. The rotosonic drilling technique was employed for borehole advancement, using a track-mounted Geoprobe 8140L rotosonic drill rig equipped with 4-inch sampling rods and a 6-inch casing sleeve. Continuous core samples were logged in the field for lithologic and geotechnical properties, then placed in core boxes and retained by SCS.

Downhole equipment was decontaminated prior to first use on site. The boring (lithologic) log and injection well construction record for the newly installed injection well is included in Attachment B. The construction data are summarized in Table 1, and the location of the well is provided on Figure 1.

The well was constructed within the borehole using factory-cleaned and sealed Schedule 40 polyvinyl chloride (PVC) products with flush-threaded fittings. The well was constructed with a 15-foot section of 3.25-inch outer diameter (OD) and 2-inch inner diameter (ID), flush-threaded, 0.020-inch factory-slotted PVC screen with a U-Pack sleeve. The well depth for INW-05 is shown in Table 1.

A flush-threaded PVC end cap was placed on the bottom of the well screen to provide a 0.33-foot sump/sediment trap and the annulus of the U-Pack sleeve section was filled with 20-40 filter sand, prior to insertion into the borehole. The screen was placed on a filter sand bed at the bottom of the borehole, with a well riser constructed with 10-foot sections of 2-inch ID, flush-threaded, PVC casing. The top of the well is approximately 0.25-feet below grade. Construction details for the well are shown on the boring/construction logs in Attachment B. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated.

Following placement of the screen and casing, the annular space in the borehole adjacent to the screen was filled with 3.7 cubic feet of US Standard Sieve size 20-40 filter pack sand as appropriate for the formation. The filter pack sand was placed into the borehole using the tremie-pipe method and extends a minimum of 2 feet above the top of the screen. Immediately following placement of the filter pack, the injection well was pumped using a portable submersible pump until the discharge was visibly clear water. A filter pack seal, composed of approximately 3.6 feet (i.e., greater than the minimum of 2 feet) of 3/8" coated bentonite pellets (approximately 4 gallons) was then placed on top of the filter pack by slowly flowing the dry pellets by gravity down the borehole and checking the placement thickness with a weighted tape. Potable water was then added to the boring and the bentonite was allowed to hydrate for a minimum of two hours before proceeding with well completion.

Following hydration of the bentonite, the remaining annular space was grouted with cement-bentonite grout mixture to ground surface using a tremie method. The surface completion consists of a below grade well casing fitted with a lockable PVC well cap and equipped with a bolted and sealed 8-inch round flush mounted road-box protective casing with a 2-foot by 2-foot by 4-inch concrete pad.

Well Development Activities

The newly installed well was developed on January 21st, 2026 in general accordance with the *Monitoring Well Development Procedures* prepared by SCS (March 2016), and the US EPA Science and Ecosystem Support Division *Design and Installation of Monitoring Wells* (February 2008). The well was surged using a Reclaimer pump system. During development, water quality measurements of pH, temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity were periodically performed using field-calibrated water quality equipment once the recovered groundwater conditions improved after initial purging. An AquaTroll® multimeter and a Hach turbidimeter were used for monitoring/water quality measurements. Water level measurements were collected using a decontaminated electronic water level indicator, referenced to a permanent marking at the top of the casing and recorded to within 0.01 foot. Equipment calibration forms and development forms are included in Attachment B with development details summarized in Table 2.

Well Survey

The newly installed well was surveyed on January 20, 2026 by Metro Survey and Engineering. The survey was completed using Leica GS18T (survey-grade) global positioning system receiver and a closed level check loop with a Leica DNA10 digital level with a positional tolerance of 0.5/0.01' H:V. The top of the PVC casing was surveyed to 0.5 foot horizontal and 0.01-foot vertical tolerance, and a marking was made on the PVC to use for reference during future measurements. Surveyed coordinates and elevations are presented on the boring/construction diagrams and in Table 1. The certified surveyor's report dated January 27, 2026 is attached as Attachment C.

Closing

We appreciate the opportunity to assist SCS and Georgia Power with this project. Should you have any questions or require additional information, please contact the undersigned at (404) 237-2115.

WSP USA, INC.



Dawn L. Prell, CPG
Technical Principal, Hydrogeologist

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.

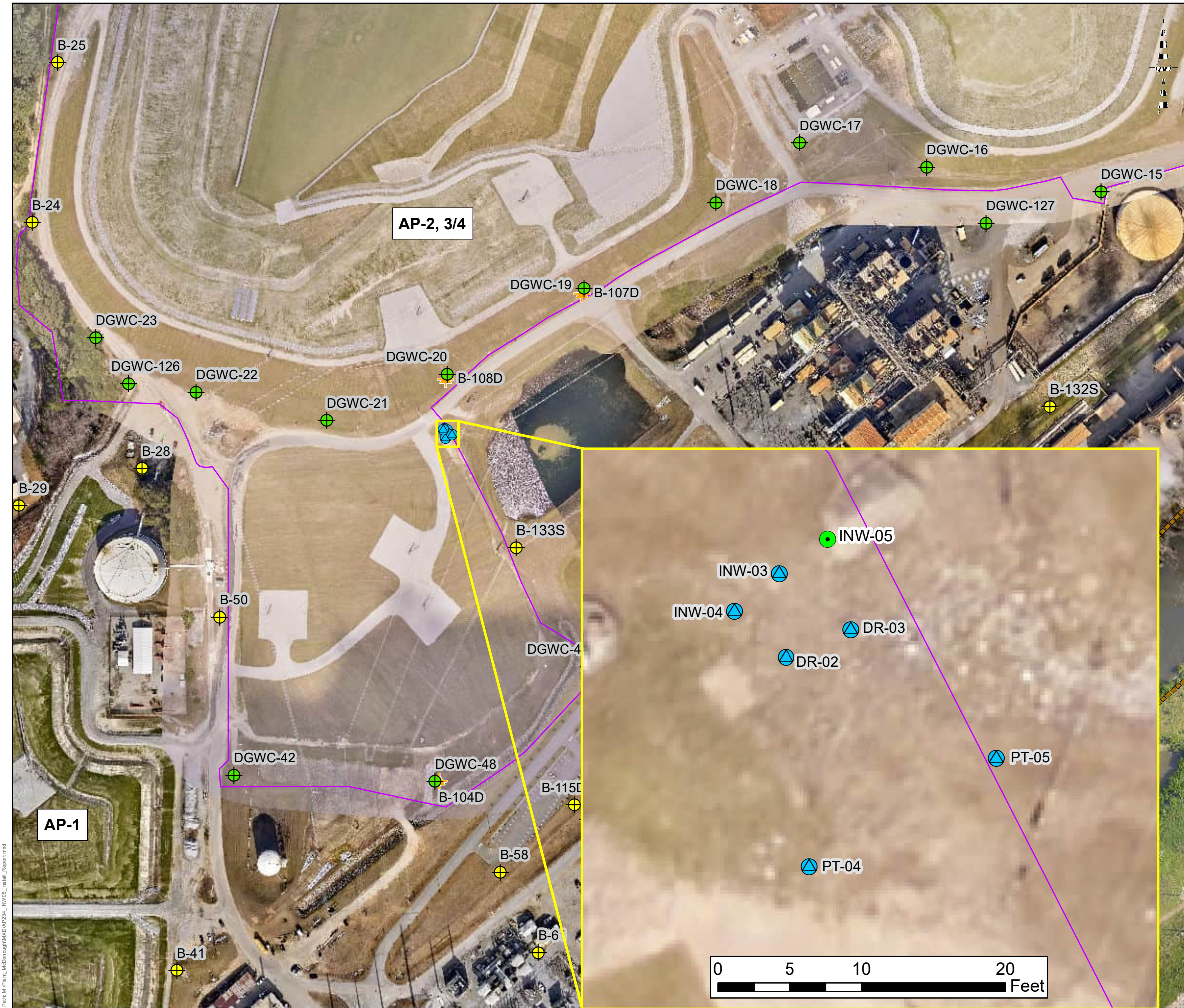


Nicholas McMillan, PG
Georgia Registered Professional Geologist No. 2308

Attachments: Figure 1: Well Location Map
Table 1: Summary of Well Construction Details
Table 2: Summary of Well Development
Attachment A: Cascade Drilling Bond
Attachment B: Boring Log/Construction Diagram, Development Form, and Calibration Log
Attachment C: Certified Well Survey

Figure

Path: M:\Plant_McDonough\AP234_INW05_Install_Report.mxd



LEGEND

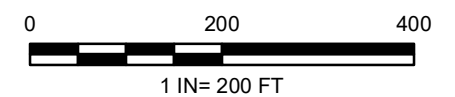
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- NEWLY INSTALLED WELL
- PILOT STUDY WELLS
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

- ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

- AERIAL IMAGERY DATE FOR AP-1, AP-2, AND AP-3/4 PROVIDED BY GEORGIA POWER, JULY 2024; AND SURROUNDING AREAS SOURCED BY PLEXEARTH, DATED SEPTEMBER 28, 2023.
- COORDINATE SYSTEM: NAD 1983 (2011) STATE PLANE GEORGIA WEST (U.S. FEET).
- INJECTION WELL LOCATION AND ELEVATIONS SURVEYED BY METRO ENGINEERING AND SURVEYING COMPANY ON JANUARY 20, 2026.



CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON
PROJECT
WELL DESIGN AND INSTALLATION (INW-05) REPORT



TITLE WELL LOCATION MAP

CONSULTANT	YYYY-MM-DD	2026-02-17
WSP	PREPARED	JMB
	DESIGN	JMB
	CHECKED	LND
	REVIEWED/APPROVED	DLP

PROJECT No.
31406440.02

Rev.
1

FIGURE
1

Tables

TABLE 1
SUMMARY OF WELL CONSTRUCTION DETAILS
Georgia Power Company - Plant McDonough

Monitoring Well ID	Latitude	Longitude	NAD 83 Northing	NAD 83 Easting	Elevation On Top Of PVC (feet NAVD88)	Elevation Ground Surface (feet NAVD88)	Total Depth (feet bgs)	Screened Interval (feet bgs)	Top of Screen Elevation (feet NAVD88)	Bottom of Screen Elevation (feet NAVD88)	Screen Length (feet)	Water Level (feet btoc)	Date Installed
INW-05	33.826451	-84.477084	1392053.4	2202314.4	810.23	810.48	37.46	21.86 - 36.86	788.62	773.62	15.0	15.40	1/6/2026

Notes:
Survey Data from Metro Engineering & Surveying Co., Inc.
ID - Identification
PVC - Polyvinyl chloride
NAD 83 - North American Datum 1983
NAVD88 - North American Vertical Datum 1988
bgs - Below ground surface
btoc - Below Top of Casing

Created by: JMB 2/17/2026
Checked by: LND 3/19/2026



TABLE 2
SUMMARY OF WELL DEVELOPMENT
Georgia Power Company - Plant McDonough

Piezometer ID	Date Started	Time Started (hr:min)	Development Method	Measured Total Depth of Well (feet bTOC)	Initial Water level (feet bTOC)	Final Water Level (feet bTOC)	Initial Water Column Volume (gal)	Total Volume Removed (gal)	pH (SU)	Specific Conductance (mS/cm)	Temp (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)
INW-05	1/21/2026	10:33	Reclaimer Pump	35.76	15.22	32.30	3.35	367	6.097	2.284	18.92	9.56	69.9	6.220

Notes:

hr:min - hours:minutes
bTOC - below Top of Casing
gal - gallons
SU - Standard Units
mS/cm - millisiemens per centimeter
°C - degrees Celcius
NTU - nephelometric turbidity units

mV - millivolts
mg/L - milligrams per liter
ORP - oxygen reduction potential
DO - dissolved oxygen
ID - Identification
PVC - Polyvinyl chloride
Temp - Tempeature

Created by: JMB 2/17/2026
Checked by: LND 3/19/2026



APPENDIX A

Cascade Drilling Bond

Bond Number 612424813

Performance Bond For Water Well ContractorsName of Water Well Contractor Richard Alan Mooney

Know All Men By These Presents

That we Cascade Drilling, L.P. and Richard Alan Mooney
and all employees, officers and partners (collectivelyhereinafter, **Principal**), and we United States Fire Insurance Company, duly organized under the laws of the State of Delaware (hereinafter, **Surety**), are held and firmly bound unto the Director of the Environmental Protection Division, Department of Natural Resources, State of Georgia (**Director**) and his or her successor or successors in office, as **Obligee**, in the full sum of **THIRTY THOUSAND DOLLARS (\$30,000.00)** for the payment of which will and truly to be made, the Principal and Surety bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, by these presents.WHEREAS, the Water Well Standards Act of 1985 (O.C.G.A. §§ 12-5-120 *et seq.*) (the Act) requires that a Water Well Contractor, as that term is defined by the Act, have a performance bond with the Director to ensure compliance with the Act; and WHEREAS the above bound Principal is subject to the terms and provisions of said Act.

NOW, THEREFORE, the conditions of this obligation are such that if the above bound Principal shall fully and faithfully perform the duties and in all things comply with the procedures and standards set forth in the Act as now and hereafter amended, and the rules and regulations promulgated pursuant thereto, including but not limited to the correction of any violation of such procedures and standards upon discovery, irrespective of whether such discovery is made before completion of any well subject to this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

And Surety, for value received, agrees that no amendment to existing laws, rules or regulations, or adoption of new laws, rules or regulations shall in anyway discharge its obligation on this bond, and does hereby waive notice of any such amendment, adoption or modification.

This bond shall be effective from the 30th day of June, 20 25 and shall continue in effect until June 30, 2027, unless sooner terminated by mutual agreement of Principal and Surety, provided that no such termination may be made unless sixty (60) days' prior written notice is made to the Director. In the event of such termination, the rights of the Director as Obligee and beneficiaries under this bond which arose prior to such termination shall continue.IN WITNESS THEREOF the Principal and Surety have caused these present to be duly signed and sealed, this the 2nd day of May, 20 25.**Principal** Cascade Drilling, L.P.**Surety** United States Fire Insurance Company

Print name:

Title:

Seal:



Print name: Melissa Haddick

Title: Attorney-in-Fact

Seal:



**POWER OF ATTORNEY
UNITED STATES FIRE INSURANCE COMPANY
PRINCIPAL OFFICE - MORRISTOWN, NEW JERSEY**

(PRODUCER CODE)

KNOW ALL MEN BY THESE PRESENTS: That United States Fire Insurance Company, a corporation duly organized and existing under the laws of the state of Delaware, has made, constituted and appointed, and does hereby make, constitute and appoint: **Sandra Parker; Melissa Haddick; Tannis Mattson; Orlando Aguilre; Stacy Killebrew; Madison Diaz and Megan Sivley** each, its true and lawful Attorney(s)-In-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver: Any and all bonds and undertakings of surety and other documents that the ordinary course of surety business may require, and to bind United States Fire Insurance Company thereby as fully and to the same extent as if such bonds or undertakings had been duly executed and acknowledged by the regularly elected officers of United States Fire Insurance Company at its principal office, in amounts or penalties: **One Hundred Twenty Five Million Eight Hundred Thousand Dollars (\$125,800,000)**

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind United States Fire Insurance Company except in the manner and to the extent therein stated.

This Power of Attorney is granted pursuant to Article IV of the By-Laws of United States Fire Insurance Company as now in full force and effect, and consistent with Article III thereof, which Articles provide, in pertinent part.

Article IV, Execution of Instruments - Except as the Board of Directors may authorize by resolution, the Chairman of the Board, President, any Vice-President, any Assistant Vice President, the Secretary, or any Assistant Secretary shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

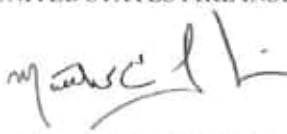
(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation.

Article III, Officers, Section 3.11, Facsimile Signatures. The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed, facsimile, lithographed or otherwise produced. In addition, if and as authorized by the Board of Directors, dividend warrants or checks, or other numerous instruments similar to one another in form, may be signed by the facsimile signature or signatures, lithographed or otherwise produced, of such officer or officers of the Corporation as from time to time may be authorized to sign such instruments on behalf of the Corporation. The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officer and its corporate seal hereunto affixed this 17th day of January, 2025.

UNITED STATES FIRE INSURANCE COMPANY





Matthew E. Lubin, President

State of New Jersey }
County of Morris }

On this 17th day of January, 2025, before me, a Notary public of the State of New Jersey, came the above named officer of United States Fire Insurance Company, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seal of United States Fire Insurance Company thereto by the authority of his office.





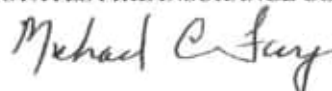
Ethan Schwartz (Notary Public)

I, the undersigned officer of United States Fire Insurance Company, a Delaware corporation, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of United States Fire Insurance Company on the ^{2nd} day of May 20 25

UNITED STATES FIRE INSURANCE COMPANY





Michael C. Fay, Senior Vice President

*For verification of the authenticity of the Power of Attorney, please contact (phone number) or email: patricia.taber@amtyntagroup.com

APPENDIX B

**Boring Logs/Construction
Diagrams, Development Forms and
Calibration Logs**

RECORD OF BOREHOLE: INW-05

Sheet 1 of 2

PROJECT: Plant McDonough AP-234
PROJECT NUMBER: US-WSP-31406440.02
DRILLED DEPTH: 37.50 ft

DRILL RIG: Geoprobe 8140L
DRILL METHOD: Rotosonic
DATE STARTED: 1/06/25
DATE COMPLETED: 1/08/26

NORTHING: 1392053.40
EASTING: 2202314.40
GS ELEVATION: 810.48 ft
TOC ELEVATION: 810.23 ft

DEPTH W.L.: 15.40 ft
ELEVATION W.L.: 795.08 ft
DATE W.L.: 1/06/25
TIME W.L.: 08:30 AM

DEPTH (ft)	ELEVATION (ft)	MATERIAL PROFILE			SAMPLE NUMBER	TYPE	REC / ATT	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS		WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	STRATA PLOT							
									Nail Elev: 810.48 ft Pipe Elev: 810.23 ft		
1	810	No Recovery									STEEL FLUSH MOUNT IN CONCRETE WELL PAD WELL COMPLETION Pad Dimensions: 2' (L) x 2' (W) x 4" (D) WELL CASING Interval: 0.25 - 21.86 ft bgs Material: Schedule 40 PVC Diameter: 2" Joint Type: Flush-threaded WELL SCREEN WITH END CAP Interval: 21.86 - 36.86 ft bgs Material: Schedule 40 PVC Diameter: 2" Slot Width: 0.020" Joint Type: Flush-threaded End Cap: 0.33 ft ANNULUS SEAL Interval: 0.00 - 15.90 ft bgs Type: Bentonite Cement Grout FILTER PACK SEAL Interval: 15.90 - 19.50 ft bgs Type: Pel-Plug® Coated Bentonite Chip Seal Chip Size: 3/8" Hydration Period: 2-hr minimum FILTER PACK Interval: 19.50 - 37.50 ft bgs Type: Filter Pack Sand 20-40 Silica
2	809										
3	808										
4	807										
5	806					Air Knife	0.00 10.00				
6	805										
7	804										
8	803										
9	802										
10	801										
11	800	(SM) Silty SAND; brown to gray brown; slight micaceous; compact; moist									PVC RISER Bentonite Cement Grout Pel-Plug® Coated Bentonite Chips Filter Pack Sand 20-40 Silica SLOTTED SCREEN
12	799				1	Rotosonic	3.00 3.00				
13	798										
14	797	(SM) Silty SAND; brown to light olive brown; slight micaceous; relic structure; compact; moist									
15	796										
16	795				2	Rotosonic	5.00 5.00	06Nov/25 12.15			
17	794										
18	793										
19	792	(SM) Silty SAND; light olive brown with black streaks; slight micaceous; compact; moist	SM								
20	791										
21	790				3	Rotosonic	5.00 5.00				
22	789										
23	788										
24	787										
25	786										
26	785	(SM) Silty SAND; brownish yellow to black; trace gravel; slight micaceous; compact; moist to wet			4	Rotosonic	5.00 5.00				

Continued on Next Page
DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: N. Drew

LOGGED BY: T. Keller
CHECKED BY: N. Mcmillan
DATE: 3/19/26



RECORD OF BOREHOLE: INW-05

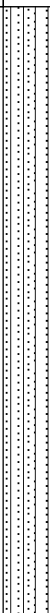
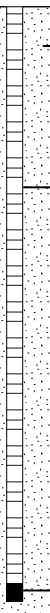
Sheet 2 of 2

PROJECT: Plant McDonough AP-234
PROJECT NUMBER: US-WSP-31406440.02
DRILLED DEPTH: 37.50 ft

DRILL RIG: Geoprobe 8140L
DRILL METHOD: Rotosonic
DATE STARTED: 1/06/25
DATE COMPLETED: 1/08/26

NORTHING: 1392053.40
EASTING: 2202314.40
GS ELEVATION: 810.48 ft
TOC ELEVATION: 810.23 ft

DEPTH W.L.: 15.40 ft
ELEVATION W.L.: 795.08 ft
DATE W.L.: 1/06/25
TIME W.L.: 08:30 AM

DEPTH (ft)	ELEVATION (ft)	MATERIAL PROFILE				SAMPLE NUMBER	TYPE	REC / ATT	GROUNDWATER OBSERVATIONS	CONSTRUCTION AND INSTALLATION DETAILS		WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	STRATA PLOT	ELEV. ----- DEPTH (ft)					Nail Elev: 810.48 ft Pipe Elev: 810.23 ft		
27		(SM) Silty SAND; brownish yellow to black; trace gravel; slight micaceous; compact; moist to wet	SM		782.5 28.0	5	Rotosonic	5.00 5.00			Filter Pack Sand 20-40 Silica SLOTTED SCREEN END CAP	
783												
28	782	(SM) Silty SAND; light brown to brownish black; trace clay; slight micaceous; compact; moist										
29	781											
30	780											
31	779											
32	778											
33	777											
34	776											
35	775											
36	774											
37	773											
773		Boring completed at 37.50 ft.			773.0							
38	772											
39	771											
40	770											
41	769											
42	768											
43	767											
44	766											
45	765											
46	764											
47	763											
48	762											
49	761											
50	760											
51	759											
52	758											
53												

DRILLING COMPANY: Cascade Environmental, LLC
DRILLER: N. Drew

LOGGED BY: T. Keller
CHECKED BY: N. Mcmillan
DATE: 3/19/26



Low-Flow Test Report:

Test Date / Time: 1/21/2026 10:33:48 AM
Project: Inw-05
Operator Name: Js

Location Name: MCD-INW-05 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25 ft Total Depth: 35.76 ft Initial Depth to Water: 15.22 ft	Pump Type: Development Tubing Type: LDPE Pump Intake From TOC: 30 m Estimated Total Volume Pumped: 367.717 gal Flow Cell Volume: 90 ml Final Flow Rate: 1 gal/min Final Draw Down: 17.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1283133
--	--	---

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
1/21/2026 10:33 AM	00:00	5.609 pH	18.46 °C	1,893 µS/cm	5.682 mg/L	1,000 NTU	106.2 mV	15.22 ft	1.000 gal/min
1/21/2026 10:38 AM	05:00	5.898 pH	18.60 °C	1,900 µS/cm	6.896 mg/L	1,000 NTU	82.6 mV	31.00 ft	1.000 gal/min
1/21/2026 10:39 AM	05:35	5.922 pH	18.56 °C	1,965 µS/cm	7.032 mg/L	1,000 NTU	117.4 mV	31.00 ft	1.000 gal/min
1/21/2026 10:44 AM	10:35	6.016 pH	18.28 °C	1,989 µS/cm	7.502 mg/L	1,000 NTU	78.5 mV	32.30 ft	1.000 gal/min
1/21/2026 10:49 AM	15:35	6.027 pH	18.29 °C	2,092 µS/cm	7.604 mg/L	1,000 NTU	123.1 mV	32.30 ft	1.000 gal/min
1/21/2026 10:54 AM	20:35	6.101 pH	18.15 °C	2,069 µS/cm	7.964 mg/L	1,000 NTU	76.9 mV	32.30 ft	1.000 gal/min
1/21/2026 10:59 AM	25:35	6.087 pH	18.08 °C	2,044 µS/cm	7.905 mg/L	1,000 NTU	76.1 mV	32.30 ft	1.000 gal/min
1/21/2026 11:04 AM	30:35	6.114 pH	18.42 °C	2,225 µS/cm	7.659 mg/L	978.0 NTU	70.4 mV	32.30 ft	1.000 gal/min
1/21/2026 11:09 AM	35:35	6.330 pH	18.46 °C	2,255 µS/cm	8.112 mg/L	822.0 NTU	61.0 mV	32.30 ft	1.000 gal/min
1/21/2026 11:14 AM	40:35	6.477 pH	18.39 °C	2,286 µS/cm	8.374 mg/L	644.0 NTU	62.3 mV	32.30 ft	1.000 gal/min
1/21/2026 11:19 AM	45:35	6.493 pH	18.55 °C	2,271 µS/cm	8.513 mg/L	520.0 NTU	67.4 mV	32.30 ft	1.000 gal/min
1/21/2026 11:24 AM	50:35	6.572 pH	18.55 °C	1,927 µS/cm	8.572 mg/L	467.0 NTU	68.6 mV	32.30 ft	1.000 gal/min
1/21/2026 11:29 AM	55:35	6.737 pH	18.37 °C	2,269 µS/cm	8.668 mg/L	398.0 NTU	67.5 mV	32.30 ft	1.000 gal/min
1/21/2026 11:34 AM	01:00:35	6.485 pH	18.33 °C	2,126 µS/cm	8.361 mg/L	437.0 NTU	73.3 mV	32.30 ft	1.000 gal/min
1/21/2026 11:39 AM	01:05:35	6.311 pH	18.60 °C	1,945 µS/cm	8.329 mg/L	374.0 NTU	78.1 mV	32.30 ft	1.000 gal/min

1/21/2026 11:44 AM	01:10:35	6.244 pH	18.66 °C	2,016 µS/cm	8.099 mg/L	317.0 NTU	81.2 mV	32.30 ft	1.000 gal/min
1/21/2026 11:49 AM	01:15:35	6.315 pH	18.64 °C	2,092 µS/cm	8.285 mg/L	378.0 NTU	80.5 mV	32.30 ft	1.000 gal/min
1/21/2026 11:54 AM	01:20:35	6.343 pH	18.55 °C	2,105 µS/cm	8.427 mg/L	311.0 NTU	80.2 mV	32.30 ft	1.000 gal/min
1/21/2026 11:59 AM	01:25:35	6.379 pH	18.46 °C	2,141 µS/cm	8.497 mg/L	234.0 NTU	79.0 mV	32.30 ft	1.000 gal/min
1/21/2026 12:04 PM	01:30:35	6.409 pH	18.37 °C	2,156 µS/cm	8.540 mg/L	109.0 NTU	77.6 mV	32.30 ft	1.000 gal/min
1/21/2026 12:09 PM	01:35:35	6.440 pH	18.29 °C	2,148 µS/cm	8.571 mg/L	111.0 NTU	75.9 mV	32.30 ft	1.000 gal/min
1/21/2026 12:14 PM	01:40:35	6.475 pH	18.26 °C	2,163 µS/cm	8.577 mg/L	64.00 NTU	74.6 mV	32.30 ft	1.000 gal/min
1/21/2026 12:19 PM	01:45:35	6.480 pH	18.22 °C	2,161 µS/cm	8.577 mg/L	25.90 NTU	72.9 mV	32.30 ft	1.000 gal/min
1/21/2026 12:24 PM	01:50:35	6.192 pH	18.27 °C	2,217 µS/cm	7.306 mg/L	16.20 NTU	74.2 mV	32.30 ft	1.000 gal/min
1/21/2026 12:29 PM	01:55:35	5.973 pH	18.71 °C	2,047 µS/cm	5.980 mg/L	33.20 NTU	75.2 mV	32.30 ft	1.000 gal/min
1/21/2026 12:34 PM	02:00:35	5.894 pH	18.99 °C	2,141 µS/cm	5.179 mg/L	56.80 NTU	73.5 mV	32.30 ft	1.000 gal/min
1/21/2026 12:39 PM	02:05:35	5.998 pH	18.77 °C	2,201 µS/cm	6.073 mg/L	33.80 NTU	75.0 mV	32.30 ft	1.000 gal/min
1/21/2026 12:44 PM	02:10:35	6.068 pH	18.61 °C	2,199 µS/cm	6.443 mg/L	19.30 NTU	75.0 mV	32.30 ft	1.000 gal/min
1/21/2026 12:49 PM	02:15:35	6.093 pH	18.54 °C	2,172 µS/cm	6.711 mg/L	16.80 NTU	75.2 mV	32.30 ft	1.000 gal/min
1/21/2026 12:54 PM	02:20:35	6.103 pH	18.48 °C	2,150 µS/cm	6.824 mg/L	12.20 NTU	75.3 mV	32.30 ft	1.000 gal/min
1/21/2026 12:59 PM	02:25:35	6.030 pH	17.79 °C	2,154 µS/cm	8.665 mg/L	13.80 NTU	84.3 mV	32.30 ft	1.000 gal/min
1/21/2026 1:04 PM	02:30:35	6.027 pH	19.05 °C	2,221 µS/cm	6.210 mg/L	12.20 NTU	72.1 mV	32.30 ft	1.000 gal/min
1/21/2026 1:09 PM	02:35:35	6.050 pH	19.17 °C	2,237 µS/cm	6.250 mg/L	11.70 NTU	74.0 mV	32.30 ft	1.000 gal/min
1/21/2026 1:14 PM	02:40:35	6.076 pH	19.22 °C	2,242 µS/cm	6.377 mg/L	19.20 NTU	72.9 mV	32.30 ft	1.000 gal/min
1/21/2026 1:19 PM	02:45:35	6.099 pH	19.18 °C	2,247 µS/cm	6.489 mg/L	11.60 NTU	72.5 mV	32.30 ft	1.000 gal/min
1/21/2026 1:24 PM	02:50:35	6.104 pH	19.12 °C	2,246 µS/cm	6.493 mg/L	14.20 NTU	73.0 mV	32.30 ft	1.000 gal/min
1/21/2026 1:29 PM	02:55:35	6.099 pH	19.04 °C	2,263 µS/cm	6.431 mg/L	11.90 NTU	72.7 mV	32.30 ft	1.000 gal/min
1/21/2026 1:34 PM	03:00:35	6.104 pH	19.03 °C	2,264 µS/cm	6.399 mg/L	12.60 NTU	72.5 mV	32.30 ft	1.000 gal/min
1/21/2026 1:39 PM	03:05:35	6.102 pH	19.04 °C	2,278 µS/cm	6.369 mg/L	15.00 NTU	71.9 mV	32.30 ft	1.000 gal/min
1/21/2026 1:44 PM	03:10:35	6.098 pH	19.04 °C	2,271 µS/cm	6.370 mg/L	14.90 NTU	71.8 mV	32.30 ft	1.000 gal/min
1/21/2026 1:49 PM	03:15:35	6.096 pH	18.99 °C	2,277 µS/cm	6.379 mg/L	15.40 NTU	72.1 mV	32.30 ft	1.000 gal/min
1/21/2026 1:54 PM	03:20:35	6.094 pH	18.98 °C	2,288 µS/cm	6.357 mg/L	68.00 NTU	71.2 mV	32.30 ft	1.000 gal/min
1/21/2026 1:59 PM	03:25:35	6.102 pH	18.96 °C	2,280 µS/cm	6.361 mg/L	42.80 NTU	70.8 mV	32.30 ft	1.000 gal/min
1/21/2026 2:04 PM	03:30:35	6.094 pH	19.00 °C	2,281 µS/cm	6.321 mg/L	39.10 NTU	71.0 mV	32.30 ft	1.000 gal/min

1/21/2026 2:09 PM	03:35:35	6.096 pH	19.01 °C	2,274 µS/cm	6.303 mg/L	34.10 NTU	70.4 mV	32.30 ft	1.000 gal/min
1/21/2026 2:14 PM	03:40:35	6.091 pH	19.03 °C	2,278 µS/cm	6.273 mg/L	24.90 NTU	70.5 mV	32.30 ft	1.000 gal/min
1/21/2026 2:19 PM	03:45:35	6.089 pH	19.09 °C	2,286 µS/cm	6.266 mg/L	25.20 NTU	70.7 mV	32.30 ft	1.000 gal/min
1/21/2026 2:21 PM	03:47:43	6.085 pH	19.11 °C	2,315 µS/cm	6.253 mg/L	23.80 NTU	116.0 mV	32.30 ft	1.000 gal/min
1/21/2026 2:31 PM	03:57:43	6.082 pH	19.18 °C	2,299 µS/cm	6.239 mg/L	21.80 NTU	74.0 mV	32.30 ft	1.000 gal/min
1/21/2026 2:41 PM	04:07:43	6.078 pH	19.22 °C	2,285 µS/cm	6.239 mg/L	18.70 NTU	73.4 mV	32.30 ft	1.000 gal/min
1/21/2026 2:51 PM	04:17:43	6.076 pH	19.25 °C	2,288 µS/cm	6.208 mg/L	16.90 NTU	73.7 mV	32.30 ft	1.000 gal/min
1/21/2026 3:01 PM	04:27:43	6.070 pH	19.27 °C	2,283 µS/cm	6.214 mg/L	17.20 NTU	74.1 mV	32.30 ft	1.000 gal/min
1/21/2026 3:11 PM	04:37:43	6.054 pH	19.31 °C	2,296 µS/cm	6.033 mg/L	20.10 NTU	73.8 mV	32.30 ft	1.000 gal/min
1/21/2026 3:21 PM	04:47:43	6.035 pH	19.39 °C	2,254 µS/cm	5.845 mg/L	19.70 NTU	73.4 mV	32.30 ft	1.000 gal/min
1/21/2026 3:31 PM	04:57:43	6.053 pH	19.36 °C	2,303 µS/cm	5.981 mg/L	11.50 NTU	72.7 mV	32.30 ft	1.000 gal/min
1/21/2026 3:41 PM	05:07:43	5.978 pH	19.30 °C	2,270 µS/cm	5.333 mg/L	11.40 NTU	72.9 mV	32.30 ft	1.000 gal/min
1/21/2026 3:51 PM	05:17:43	5.970 pH	19.21 °C	2,130 µS/cm	5.881 mg/L	10.90 NTU	74.7 mV	32.30 ft	1.000 gal/min
1/21/2026 4:01 PM	05:27:43	6.045 pH	19.18 °C	2,325 µS/cm	5.956 mg/L	14.70 NTU	72.9 mV	32.30 ft	1.000 gal/min
1/21/2026 4:11 PM	05:37:43	6.061 pH	19.23 °C	2,327 µS/cm	6.033 mg/L	12.40 NTU	72.3 mV	32.30 ft	1.000 gal/min
1/21/2026 4:21 PM	05:47:43	6.077 pH	19.13 °C	2,325 µS/cm	6.127 mg/L	17.30 NTU	71.5 mV	32.30 ft	1.000 gal/min
1/21/2026 4:31 PM	05:57:43	6.093 pH	19.02 °C	2,323 µS/cm	6.184 mg/L	10.60 NTU	70.3 mV	32.30 ft	1.000 gal/min
1/21/2026 4:41 PM	06:07:43	6.097 pH	18.92 °C	2,284 µS/cm	6.220 mg/L	9.560 NTU	69.9 mV	32.30 ft	1.000 gal/min

Samples

Sample ID:	Description:
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Field Instrumentation Calibration Form

Date 1/21/25

Field Conditions Cold

Calculated By: JS

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In Situ Aquatroll	H200567
Turbidity Meter	Nach 2100Q	22001000007567

Parameter		Calibration Standard Information		
Specific Conductance ($\mu\text{S/cm}$)	Standard	Lot #	Date of Expiration	Brand
pH (SU)	4.490	2p2165	9/26	AIR
pH (SU)	4.00			
pH (SU)	7.00			
DO (%)	10.00			
ORP (mV)	N/A			
	228.0			

Time Start		Calibration			
Parameter	Standard	Time Finish	Calibration Solution	Acceptance Criteria	Reference
Specific Conductance ($\mu S/cm$)	4 490	Calibration Value	Calibration Temperature ($^{\circ}C$)	$\pm 10\%$ of standard	EPA 2023
pH (SU)	4.00	3.481	1.8	± 0.1	GWMP
pH (SU)	7.00	4.11	1.8	± 0.1	GWMP
pH (SU)	10.00	7.147	1.2	± 0.1	GWMP
DO (%)	N/A	10.13	3.45	$\pm 10\%$	NA
ORP (mV)	228.0	103	258.0	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	3.21	$\pm 10\%$ of standard	EPA 2023
	10	1.2		
	5	7.01		
	1	4.82		

Time Start		Calibration Check			
Parameter	Standard	Time Finish	Calibration Solution	Acceptance Criteria	Reference
Specific Conductance ($\mu\text{S}/\text{cm}$)	4.490	4613	Calibration Value	Temperature ($^{\circ}\text{C}$)	$\pm 10\%$ of standard
pH (SU)	4.00	72.6	10.15	± 0.1	EPA 2023
pH (SU)	7.00	3.99		± 0.1	GWMP
pH (SU)	10.00	6.98		± 0.1	GWMP
		10.03			

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	2	20.6	$\pm 10\%$ of standard	EPA 2023
	1	49.6		
	0.2	80.7		
	10	9.99		

Nicotina

ATTACHMENT C

Certified Well Survey



1469 HIGHWAY 20 WEST • McDONOUGH, GA 30253
phone: 770-707-0777 fax: 770-707-0755
WWW.METRO-ENGINEERING.COM

SURVEYOR'S REPORT

SCOPE OF WORK:

Field survey of existing Monitoring Wells at Georgia Power Company, Plant McDonough in Smyrna, GA.

Horizontal and vertical datum was derived from RTK GPS observations with corrections received via a cellular modem utilizing the Leica "Smartnet" RTK Network and conventional surveying equipment. Horizontal datum is Georgia State Plane, West Zone, NAD83(2011) and vertical datum is NAVD88.

EQUIPMENT USED TO ESTABLISH THE MONITORING WELL LOCATIONS:

Leica GS18T GPS Receiver
Leica TS16 Total Station
Leica DNA10 Digital Level

CERTIFICATION:

I hereby certify that the center of well casing (PVC) has a horizontal accuracy of 0.5+/- feet or better using a Leica GS18T GPS (survey-grade) global positioning system receiver referencing the Georgia State Plane, West Zone, NAD83(2011) coordinate system in US survey feet. The top of well casing (PVC) elevation data was determined in feet above mean sea level based on the NAVD88 vertical datum. Vertical data was confirmed to be accurate within 0.01 foot through establishment of a closed level check loop with a Leica DNA10 digital level having a published accuracy of 0.9mm per dual-traverse Kilometer.

Field survey was completed on January 20, 2026.

Christopher G. Lea, GA. RLS #3427



Date: January 27, 2026

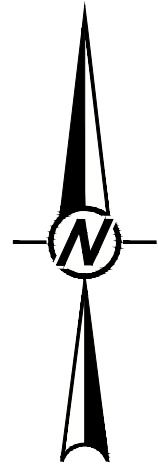
Plant McDonough
Injection Well Locations
January 20, 2026

Well ID	LATITUDE	LONGITUDE	NAIL NORTHING	NAIL EASTING	NAIL ELEV	PVC NORTHING	PVC EASTING	TOP PVC ELEV	ELEV AT BASE (REBAR)
INW-05	N33.826450	W84.477086	1392053.4	2202314.4	810.48	1392053.1	2202313.8	810.23	810.49



APPENDIX L

Vibrating Wire Piezometer Data



LEGEND

- PRE-CLOSURE CONTOURS (MARCH 2018)
- PROPERTY BOUNDARY MARKERS/LIMITS
- EXISTING OVERHEAD ELECTRIC LINES IN CCR POND 2 & 3/4 AREA TO REMAIN & TO BE PROTECTED
- 900 FINAL CLOSURE CONTOURS
- 800 CLOSURE CONTOURS OUTSIDE LIMITS OF CCR
- PROPOSED PERMIT BOUNDARY AP-2, AP-3/4
- P-2 DUAL VW PIEZOMETER & INCLINOMETER
- P-1 TRI LEVEL VW PIEZOMETER & INCLINOMETER
- P-7 DUAL LEVEL VW PIEZOMETER
- AP-1 EXISTING AP4 DAM PIEZOMETER
- AE-1 TEMPORARY AEM WELL
- EW-D1
- AEM & TOE DRAIN WATER CONVEYANCE PIPING, SEE NOTE 4
- FINAL LIMITS OF LINER
- FINAL LIMITS OF CCR

REFERENCES

1. THE EXISTING SITE TOPOGRAPHY AND CONTOUR ELEVATIONS WERE PROVIDED BY GEORGIA LAND DEPARTMENT AND METRO ENGINEERING AND SURVEYING CO, INC. THE DATE OF THE SURVEY PROVIDED AND SHOWN ON THIS SET OF PLANS IS 03-18-2018. REFER TO THE SURVEY DRAWING TITLED "TOPOGRAPHIC MAP PREPARED FOR GEORGIA POWER COMPANY PLANT MCDONOUGH - GEORGIA STATE PLANE WEST SURVEY FEET - DATE OF PHOTOGRAPHY 03-18-2018."

NOTES

- ELEVATIONS SHOWN OUTSIDE OF CLOSURE LIMITS ARE BASED ON MARCH 2018 TOPOGRAPHY AND MAY NOT REPRESENT CURRENT CONDITIONS.
- INSTRUMENTATION, DEWATERING WELLS AND EXISTING PIEZOMETERS AND TOE DRAINS WITHIN EXCAVATION AREAS TO BE MAINTAINED, PROTECTED AND LOWERED AS NECESSARY THROUGHOUT CONSTRUCTION. IF DAMAGED THEY SHALL BE REPLACED IN KIND UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- NO INSTRUMENTATION OR AEM AND TOE DRAIN WATER MANAGEMENT INFRASTRUCTURE IN AP-2.
- AEM WATER PIPING IS DUAL CONTAINED WHEN OUTSIDE LIMITS OF CCR.
- A WATERSHED SOLAR POWERCAP® PILOT SOLAR INSTALLATION IS INSTALLED ON THE SOUTHWEST SLOPE OF AP-3/4. THE POWERCAP® SYSTEM IS A DIRECT SURFACE INSTALLATION WHICH CONSISTS OF A SOLAR ARRAY PLACED ON THE CLOSURETURF ENGINEERED COVER SYSTEM. THE PILOT SOLAR INSTALLATION WAS COMPLETED ON JANUARY 31, 2019 AND COVERS AN AREA OF 0.07 ACRES.

FOR PERMITTING PURPOSES
NOT FOR CONSTRUCTION



CLIENT
GEORGIA POWER COMPANY



PROJECT
PLANT MCDONOUGH - ATKINSON
ASH POND 3 AND ASH POND 4 (AP-3/4) CLOSURE
& ASH POND 2 (AP-2) CLOSURE

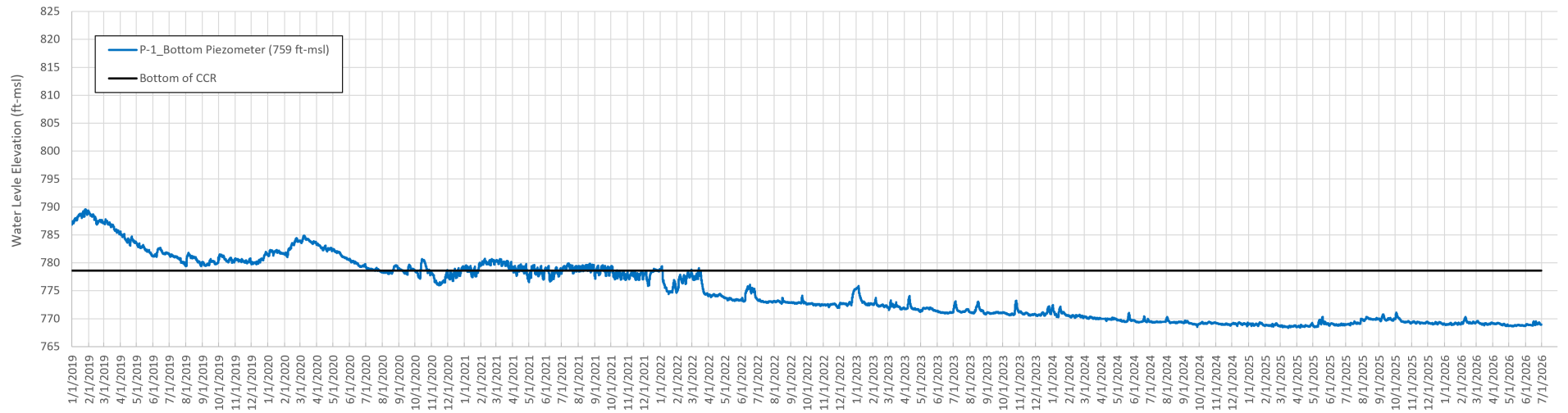
TITLE
POST-CLOSURE CONTACT WATER MANAGEMENT AND
INSTRUMENTATION PLAN

CONSULTANT	YYYY-MMM	2025-FEB
	DESIGNED	GLH
	PREPARED	RMS
	CHECKED	LS
	REVIEWED / APPROVED	GLH

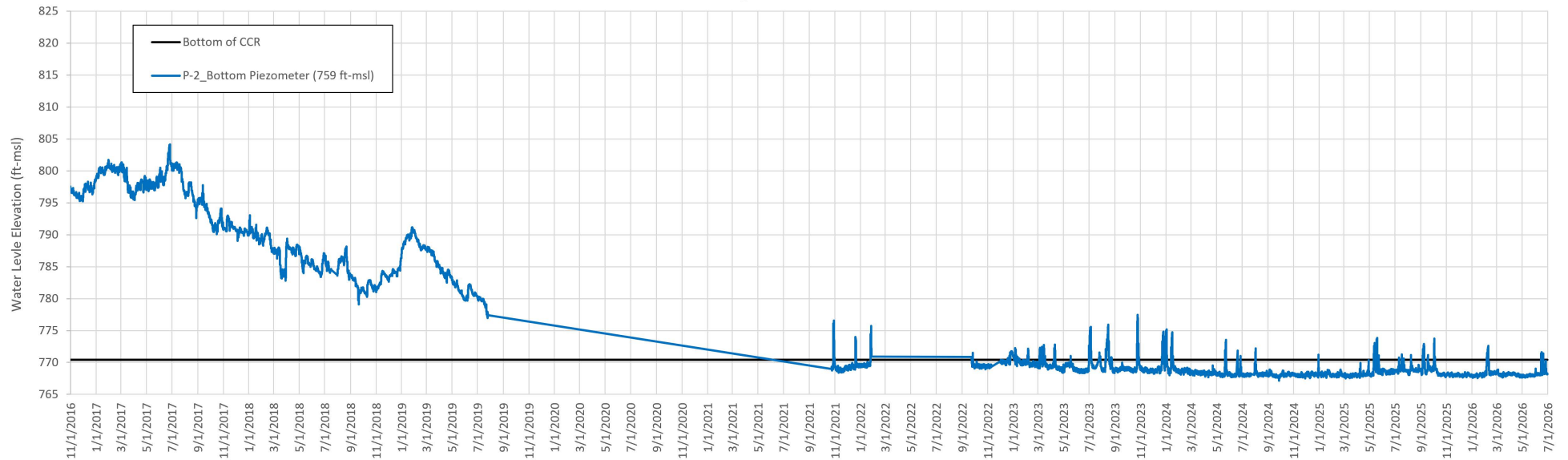
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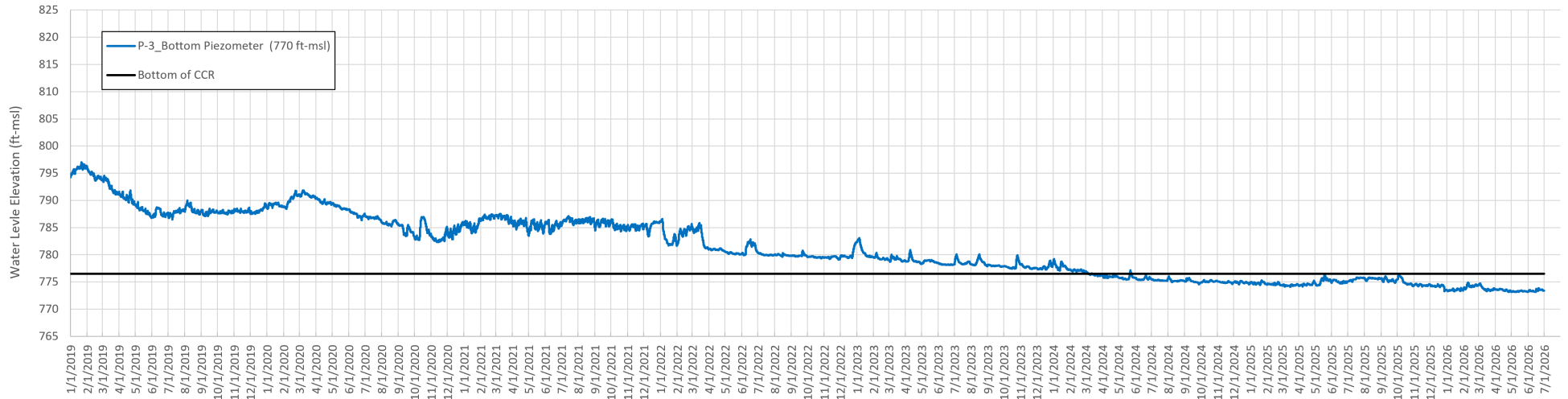
P-1 Vibrating Wire Piezometer - All Time



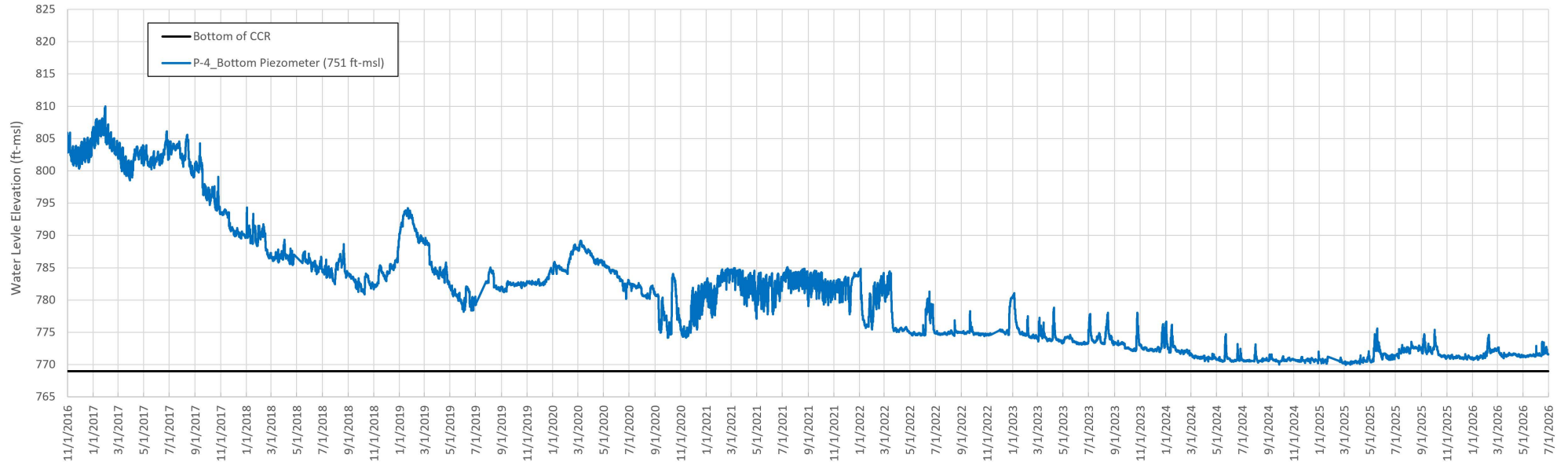
P-2 Vibrating Wire Piezometer - All Time



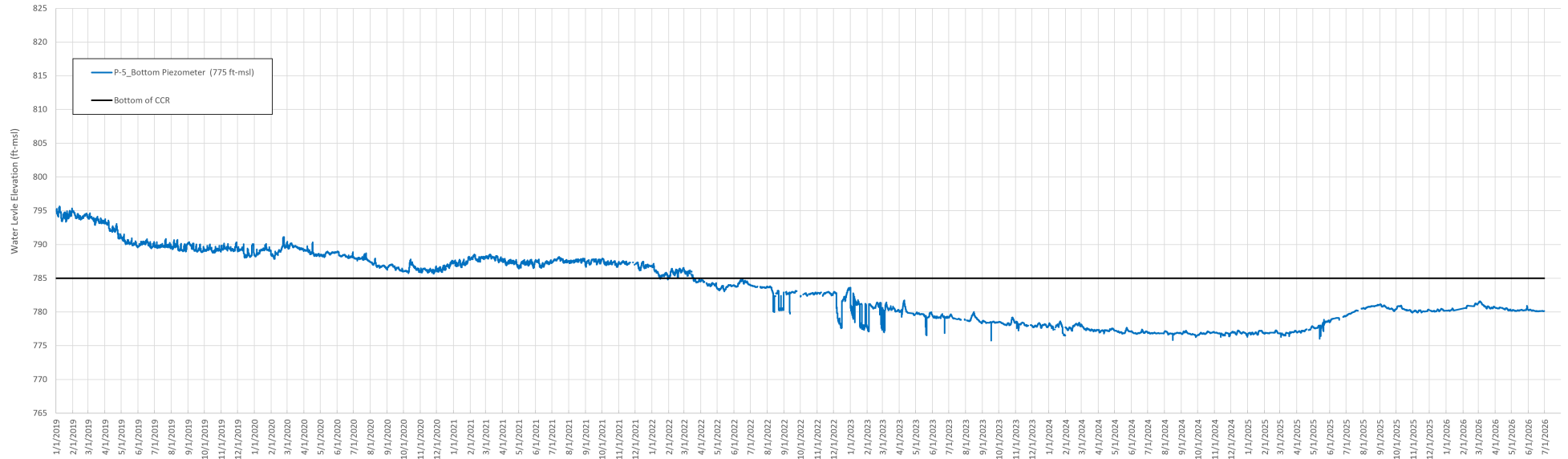
P-3 Vibrating Wire Piezometer - All Time



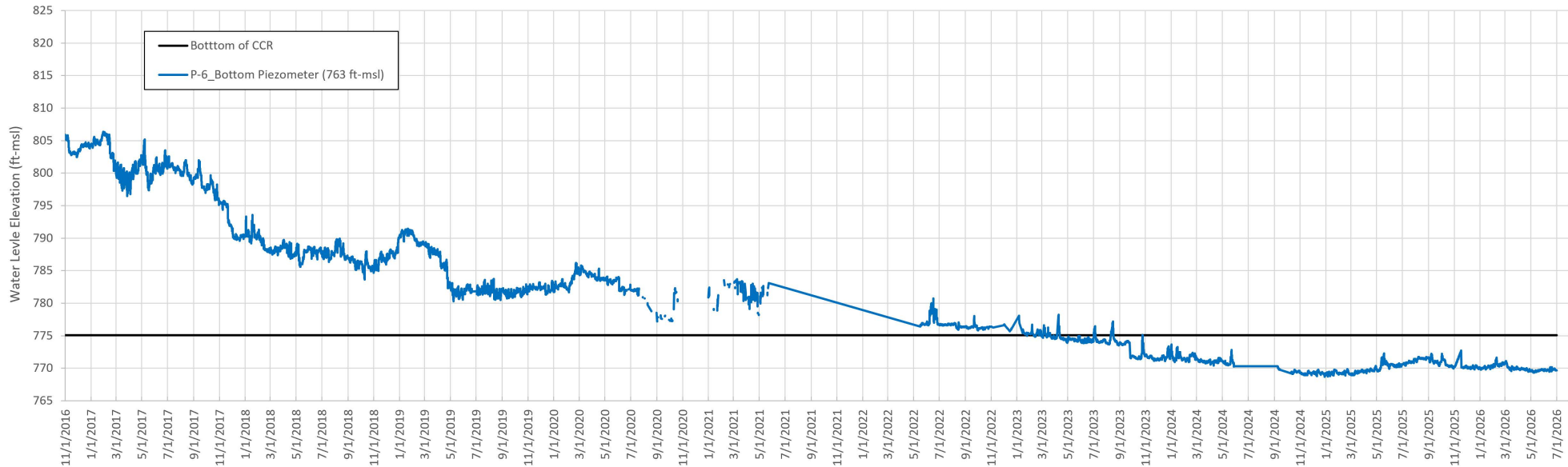
P-4 Vibrating Wire Piezometer - All Time



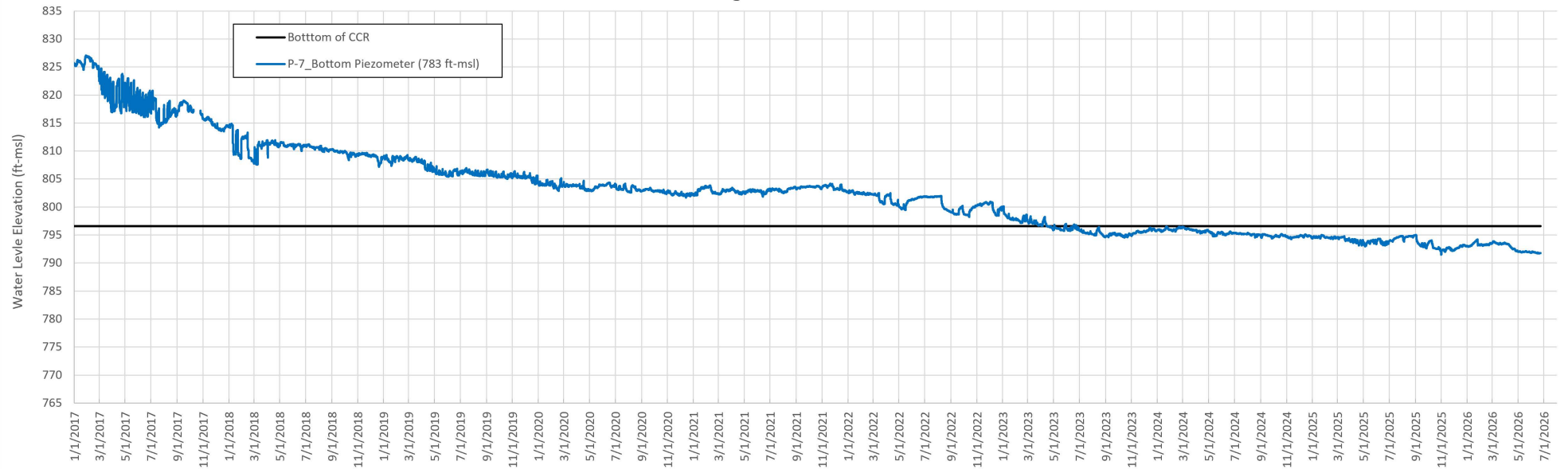
P-5 Vibrating Wire Piezometer - All Time



P-6 Vibrating Wire Piezometer - All Time



P-7 Vibrating Wire Piezometer - All Time



wsp

