2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT SLURRY POND 3 & 4 WINYAH GENERATING STATION

by Santee Cooper Moncks Corner, South Carolina

January 31, 2025

Table	e of Contents	Page
1.	Annual Groundwater Monitoring Report Summary	1
2.	40 CFR §257.90 Applicability	1
	2.1 40 CFR § 257.90(a) and (c)	1
	2.2 40 CFR § 257.90(e) – Summary	2
	2.2.1 Status of the Groundwater Monitoring Program	2
	2.2.2 Key Actions Completed	2
	2.2.3 Problems Encountered	3
	2.2.4 Actions to Resolve Problems	3
	2.2.5 Project Key Activities for Upcoming Year	3
	2.3 40 CFR § 257.90(e) – Information	4
	2.3.1 40 CFR § 257.90(e)(1)	4
	2.3.2 40 CFR § 257.90(e)(2)	4
	2.3.3 40 CFR § 257.90(e)(3)	4
	2.3.4 40 CFR § 257.90(e)(4)	4
	2.3.5 40 CFR § 257.90(e)(5)	5

Table No. Title

- 1 Summary of Analytical Results
- 2 2024 Synoptic Water Levels for Groundwater Monitoring Wells

Figure No. Title Location of Slurry Pond 3 & 4 Groundwater Monitoring Wells for CCR Compliance Potentiometric Map February 2024 Potentiometric Map April 2024 Potentiometric Map July 2024 Potentiometric Map November 2024

Appendix A - Statistical Analyses

Appendix B – Laboratory Analytical Reports

Appendix C – Well Installation Record - WAP-15 Replacement

1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2024 Annual Groundwater Monitoring Corrective Action Report for Slurry Pond 3 & 4 at the Winyah Generating Station (WGS). This 2024 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated April 17, 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

In accordance with § 257.90(e)(6), an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit is provided below:

At the start of the current annual reporting period (January 1, 2024), the WGS Slurry Pond 3 & 4 continued to operate under an assessment monitoring program in accordance with § 257.95, which was initiated on July 16, 2018. As required by § 257.93(h)(2), the initial statistical analysis to determine if statistically significant levels (SSLs) of one or more Appendix IV constituents were present downgradient of Slurry Pond 3 & 4 identified SSLs above the groundwater protection standards (GWPS) for arsenic and lithium. The SSLs for arsenic and lithium were addressed through completion of a successful alternate source demonstration (ASD) which was certified on October 9, 2019. The successful ASD, provided in the 2019 Annual Groundwater Report, allowed this CCR unit to remain in assessment monitoring. SSLs of Appendix IV constituents were not identified in downgradient monitoring wells for this unit during the semiannual monitoring events completed in 2024. Therefore, at the end of the current annual reporting period (December 31, 2024), Slurry Pond 3 & 4 remains in the assessment monitoring program.

To report on the activities conducted during the prior calendar year and document progress complying with the CCR Rule, the specific requirements listed in § 257.90(e)(1) through (5) are provided in the next section in bold/italic type followed by a short narrative stating how that specific requirement was met.

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a) and (c)

All CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under § 257.90 through § 257.98.

Once a groundwater monitoring system and groundwater monitoring program has been established at the CCR unit as required by this subpart, the owner or operator must conduct groundwater monitoring and, if necessary, corrective action through the active life and post-closure care period of the CCR unit.

The Slurry Pond 3 & 4 at WGS is an existing CCR surface impoundment which is no longer receiving CCR or non-CCR waste streams and is undergoing closure by removal. As such, it is subject to the groundwater monitoring and corrective action requirements set forth by the EPA in 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Unit Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

2.2 40 CFR § 257.90(e) - SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report documents the activities completed in 2024 for WGS Slurry Pond 3 & 4 as required by the subject regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.95, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

Earlier, statistically significant increases (SSIs) of Appendix III constituents were identified downgradient of Slurry Pond 3 & 4, and the notification was provided on January 15, 2018. As a result, an assessment monitoring program was initiated as required by § 257.94(e)(2). The notification was placed in the facility's operating record as required by § 257.106(h)(4). As required by § 257.93(h)(2), a statistical evaluation of the detected Appendix IV constituents determined there were statistically significant exceedances of groundwater protection standards (GWPS) for arsenic and lithium. Therefore, an assessment of corrective measures and nature and extent was initiated per §257.95(g)(3). An alternate source demonstration (ASD) was also initiated at that time. Haley & Aldrich, Inc. documented in the ASD that naturally occurring conditions exist within the uppermost shallow alluvial aquifer which are responsible for mobilizing naturally occurring arsenic and lithium. Additional details are documented in the ASD report provided as an appendix to the 2019 Annual Groundwater Monitoring and Corrective Action Report. Because of the successful ASD, Slurry Pond 3 & 4 remained in assessment monitoring.

For the assessment monitoring events in 2024, SSLs of Appendix IV constituents above GWPS were not identified in groundwater downgradient of this unit consistent with prior sampling results. Therefore, this CCR unit will remain in assessment monitoring in 2024.

2.2.2 Key Actions Completed

The following key actions were completed in 2024:

- Prepared 2023 Annual Report including:
 - The Annual Report was placed in the facility's operating record pursuant to § 257.105(h)(1);
 - Pursuant to § 257.106(h)(1), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];
 - Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)].

- Collected and analyzed two rounds of groundwater samples (February-March and July) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the concentrations in the facility's operating record as required by § 257.95(d)(1). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B.
- Completed statistical evaluations to determine if SSLs of GWPS were present for detected Appendix IV constituents in accordance with § 257.93(h)(2) (Appendix A).
- WAP-29 was added to the compliance groundwater monitoring network for the first sampling event of 2024.
- Replaced WAP-15 on February 15, 2024, due to irreparable damage to the original well.
- Continued with improved potentiometric surface characterization of the uppermost aquifer given changing site conditions by completing sitewide synoptic water level measurements on an approximately quarterly basis to further evaluate temporal changes.
 Continued evaluation of turbidity, oxidation-reduction potential, and well screen submersion trends sitewide in wells and to identify wells to be redeveloped by a certified well driller to remove buildup of sediment fines and suspected biofouling on the well screens. A submersible camera was also used where applicable to investigate wells with unsubmerged screens prior to redevelopment. Plans to conduct redevelopment will be finalized in 2025 and reported in the 2025 Annual Report.

2.2.3 Problems Encountered

As a result of nearby construction, WAP-15 was accidentally run over and damaged beyond repair. The damage was discovered during the collection of synoptic water levels prior to the February 2024 sampling event.

2.2.4 Actions to Resolve Problems

WAP-15 was quickly replaced on February 15, 2024, in the same location. After the well was developed, WAP-15 was sampled on March 5, 2024, as part of the first sampling event of 2024.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2025 include the following:

- Prepare the 2024 annual report; place it in the record as required by § 257.105(h)(1); notify the state [§ 257.106(d)]; and post to the facility's publicly available CCR website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring consistent with § 257.95.
- Complete semi-annual statistical analysis of assessment monitoring analytical data to determine if SSLs of the detected Appendix IV constituents are present above GWPS.
- Continue monitoring the results of WAP-15 to ensure that it was an effective replacement well.
- Continue improving the potentiometric surface characterization of the uppermost aquifer given changing site conditions by expanding the number of locations for collecting surface water elevations from unlined ponds.

2.3 40 CFR § 257.90(e) - INFORMATION

At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

2.3.1 40 CFR § 257.90(e)(1)

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

As required by § 257.90(e)(1), a map showing the locations of the CCR unit and associated upgradient and downgradient monitoring wells for Slurry Pond 3 & 4 is presented as Figure 1.

2.3.2 40 CFR § 257.90(e)(2)

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

A replacement well for WAP-15 was installed on February 15, 2024.

2.3.3 40 CFR § 257.90(e)(3)

In addition to all the monitoring data obtained under § 257.90 through § 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

In accordance with § 257.95(b) and § 257.95(d)(1), two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection, and monitoring data obtained for the groundwater monitoring program for Slurry Pond 3 & 4 is presented in Table 1 of this report. In addition, and in accordance with § 257.95(d)(3), Table 1 includes the groundwater protection standards established under § 257.95(d)(2). Laboratory analytical data reports, along with field sampling forms, are provided in Appendix B to this report.

2.3.4 40 CFR § 257.90(e)(4)

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and

As required by § 257.93(h) a statistical analysis of the Appendix III constituents was completed by January 15, 2018. Baseline analytical data collected from background monitoring wells WBW-1 and WAP-1 were combined to develop Upper Tolerance Limits (UTLs). The UTLs for each Appendix III constituent were compared to the analytical results for the downgradient monitoring wells WAP-4, WAP-14, WAP-15, and WAP-16. Constituents with analytical results exceeding the UTLs were identified as SSIs over background for the respective Appendix III constituent. This statistical analysis determined that statistically significant increases of boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids were present downgradient of Slurry Pond 3 & 4. An evaluation of alternate sources for SSIs was initiated and completed on April 13, 2018, as provided in § 257.94(e)(2). A source causing the SSI over background levels other

than the CCR unit was not identified at that time and an assessment monitoring program was initiated on July 16, 2018.

The assessment monitoring program has been established to meet the requirements of 40 CFR § 257.95. As required by § 257.95, the statistical evaluation of the detected Appendix IV constituents determined there were SSLs above GWPS for arsenic and lithium. Therefore, an assessment of corrective measures and a nature and extent investigation was initiated per §257.95(g)(3) on May 15, 2019. However, prior to completing the assessment of corrective measures and the evaluation of the nature and extent of arsenic and lithium, Haley & Aldrich documented naturally occurring conditions that exist within the uppermost shallow alluvial aquifer responsible for the mobilizing naturally occurring arsenic and lithium and certified the ASD on October 9, 2019. Based on the statistical evaluation for the 2024 data, no new SSLs were identified (Appendix A). Therefore, at the end of the current annual reporting period (December 31, 2024), Slurry Pond 3 & 4 will remain in assessment monitoring in 2025.

2.3.5 40 CFR § 257.90(e)(5)

Other information required to be included in the annual report as specified in § 257.90 through § 257.98.

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.95 of the CCR Rule. There are no applicable requirements from Sections § 257.96 through § 257.98.

Groundwater flow rate and direction are provided as Figures 2, 3, 4, and 5 for each synoptic water level event as specified in § 257.93(c).

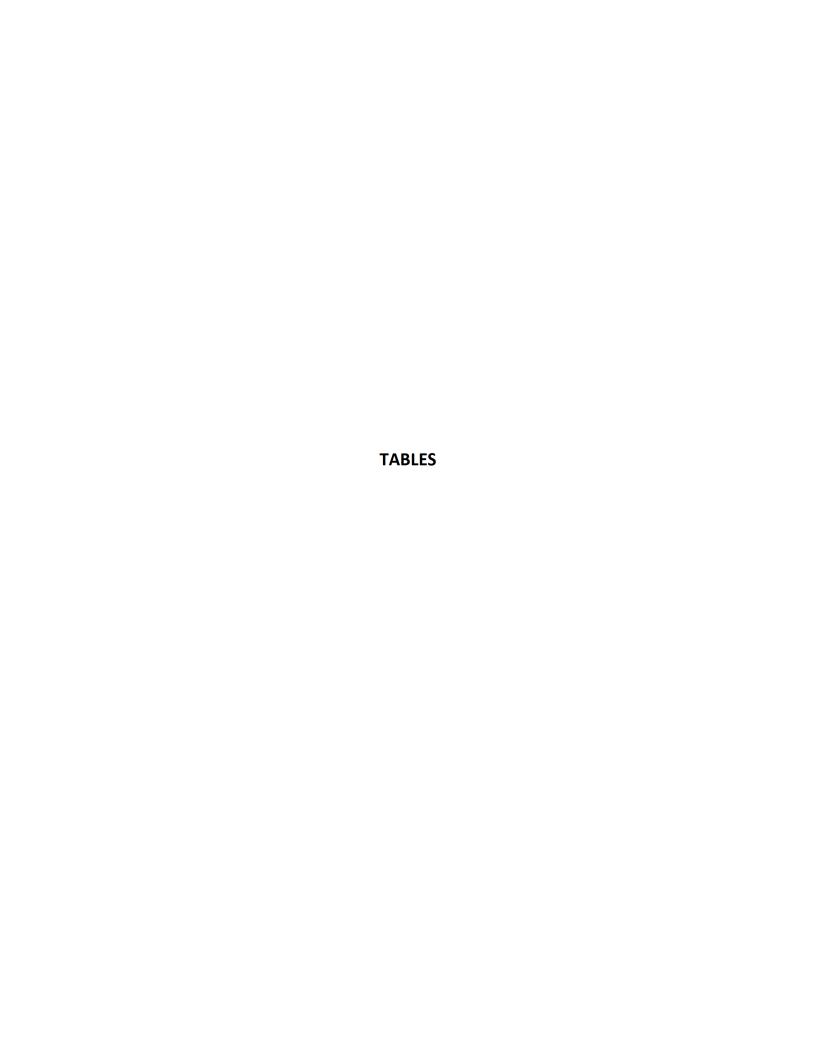


Table 1 - Summary of Analytical Results Winyah Generating Station Slurry Pond 3 & 4 Assessment Monitoring 2024

								2									,	Appellux is constituents	Collegian	9										Field Parameters	ameters			
Well ID Purpose	Sample Event	Laboratory Sample ID Number	m m	Boron Calcium		Chloride Fluoride Suffate	nde Suh		Total pl Dissolved Solids	PH Anti	Antlmony	Arsenic Ba	Barlum Ber	Beryllium Cad	Cadmlum Chr	Chromium	Cobatt Flux	Fluoride	sad Lithium	m Mercury	ny Molybdenum	anum Radium 226	um Radium 8 228	-40 0	Selenium Selenium ne	Thallium	Groundwater	Groundwater Elevation	ater pH	Specific	Temperature	Reduction Potential	Turbidity	Dissolved
			-	-	⊢	H	H			Su us	Н	Н		ш		n ng/L n	Н	Н	Н	L ug/L	ng/L	Н	Н	Н	-	ш	Feet	Feet	S	Sn	o	AM.	UTU	mdd
		ž	Method E0	EPA EPA 6010D 6020B	'A EPA 0B 300.0	A EPA		300.0	SM 2540C	m 8	EPA 6	EPA E 8020B 60	EPA EPA 6020B	EPA 6020B E	EPA EPA 6020B		EPA E 6020B 30	300.0 602	EPA EPA 60208 6010D			10D EPA 903.1 Mod	A EPA -1 904.0	A EPA 0 903.1 Mod	EPA 6020B	6020B						SM2580		
		US	GWPS/ US EPA MCL/RSL	1	1	- 4.00	00		ı	- R	25.0	19.0	2000	4.00	5.00	100	6.00	4.00 15	15.0 40.0	0 2.00	000		<u>'</u>	6.00	90.0	2.00	ı	ı	ŀ	I	ı	1	1	'
	and Wells																		П															
Background	2/5/24	AF90595	37.1		11.6	<0.10	30.2	80.00		<5.0	9.6		<0.5		<5.0	0.84	4 <0.10	0 <1.0	<5.0	<0.2	<5.0	2.03	0.185	2.215	<10.0	v1.0	4.86	24.58	4.41	139	16.98	0.89	0.100	1.06
Background	7/1/24	AG03721	30.4		9.26	<0.10			4.45			68.1		<0.5						<0.2	<5.0	2.13	2.16	4.29	<10.0	41.0	5.71	23.73	4.42	120	24.57	25.0	۰	1.01
total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	Ī
Backoround	2/8/24	AF90834	185	2.2	4.50	<0.10			Т	<5.0		Т		<0.5			8 <0.10		0,	<0.2	<5.0	0.0320	2.16	2.192	<10.0	41.0	7.16	24.82	4.54	56.0	16.40	158	7.20	3.58
Background	77/1/24	AG03766	13.2	Г	4.92	<0.10	7.22	<25	4.04	Г	<5.0	0 12.9	<0.5		<5.0	0.54	Г	0 <1.0	Г	<0.2	<5.0	0.102		2.512	<10.0	<1.0	7.27	24.70	4.04	47.0	24.17	258	1.40	4.10
total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	
	100		+	-	+	+	+	+	1	+	1	1		1	1	1	+	+	+	1	1	+	1	1	1	1		1						
Sturry Fond 3 and 4 Wells	and 4 Wells	Open Comme				9				T		T								9	9	0.470		ш	ш	0 77	1	20.00	175	262	40.00	400	8	0000
Assessment 2/6/24	2/0/24	Arsubas	1.07	93.8	50.00	01.0	0.7	7007	1.42	0.00	20.0	25.3	20.0	40.0	20.0	202	0.00	2 5	0.00	707	20.0	0.470	4 00	0.0408	10.0	2 4	1.75	12.00	747	300	72.47	25.	20.00	0.030
Assessment	1/10/24	A000120			0	20.10	c	*	0	0	0	0	0	6	6	2	0	0	0	0	0	0	0	18	0.012	0	65.7	2	2 0.45	2000	6		2 2	4.30
total eatings				4	7	7	4		4	*	4	,	4	4	4	•	4		4			4				4		4	4					
Assessment	2/19/24	AF90611	8436	Г	Γ		867	5075		<5.0										<0.2	<5.0	0.552		2.402	<10.0	c1.0	4.20	10.49	746	6440	16.81	-360	1.00	0.840
Duplicate	2/19/24	AF90612	8200	1190	1480	0.95	873	4970	П		41.6	6 47.1	c0.5		<5.0	<0.5	5 0.95	c1.0	<5.0	<0.2	<5.0	1.04	1.26	2.3	<10.0	<1.0	ŧ	**	*				ī	:
		AG03741	1998				921	5352	П											<0.2	<6.0	1.22		3.47	<10.0	<1.0	6.20	8.49	7.34	6480	24.68	409	0	0.780
Duplicate	7/17/24	AG03742	916(938	2380		5.2				<0.5				4.0		<0.2	<5.0	1.28	2.56	3.84	<10.0	0.6	:	:	1		1	:	:	1
total samples				4	4	4	4	*	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		7	7	2	2	7	2	
CHANNE	SHEPA	AEGN613	0000		1080		П	3324		Τ		81.5	50 S	60.5		405	0 10	610	51.4	<0.0>	65.0	1 00	-0.28D		700	010	2.52	11.43	7.18	4640	19 15	.870	c	0 700
Т	#2/CI/2	AC03743	5790	790	000	0 0	870	4030	01.10	200	2. 6.0				0.50					202	0.55	1 26	0.028	2 188	410.0	0.50	5.02	8 94	6.02	4640	24.47	-384		0.740
total samples	-			2	2	2	2	2	2	2	24	2	2	24	2	2	~	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2	
CMANE	2/20/24	AF90614	6410	229	870	<0.10		3128							<5.0	<0.5			19.0	<0.2	<5.0	6.88	-2.70	6.88	<10.0	<1.0	4.72	4.51	6.89	3750	17.91	-396	0	0.690
CMANE	7/17/24	AG03744	6390		773	<0.1	658	3236		9.9	<5.0	0 172	<0.5	<0.5			60.1	<1.0		<0.2	<5.0	1.33	1.38	2.71	П	۲.0	5.89	3.34	629	3730	22.63	-347	4.80	0.820
WAP-14B total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2 2		2	2	2	2	2	2	
CMAME	200024	AF90615	453		269	0.18	ı	8512		Τ	45.0	87.4	<0.5	20.5			0.18	c1.0		<0.2	<5.0	1.91	-1.32	1.91	<10.0	<1.0	8.88	5.00	649	1290	16.29	43.0	٥	0.830
	7/17/24	AG03745	78.3	192	278	0.11	129	1106	7.05	<5.0	Г	Г			<6.0	<0.5			15.8	<0.2	<5.0	2.00	0.264	2.264	<10.0	41.0	10.99	2.89	2.05	1500	24.74	-184	5.20	0.800
WAP-14C total samples	Electric Co.			2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	2	2		2	2	2	2	2	2	
Assessment 3/5/24	3/5/24	AF93805	4440		915	0.17	470	2529	6.65	<5.0		0 223	<0.5	<0.5			5 0.17	4.0		40.2 0.2	<5.0	1.57	3.49	5.06	<10.0	4.0	6.85	13.56	6.65	3370	20.31	-50.0	0	1.04
Dunicate	3/5/24	AF93806	4480		808	0.17	458	2551				ı			<5.0	<0.5			49.5	<0.2	<5.0	1.79	0.983	2.773	<10.0	×1.0	:	:	:	:	:	:	:	:
1_	7/17/24	AG03746	4510	614	864	0.50	527	3234	6.53	5.4	<5.0	0 243	<0.5				0.50	<1.0		<0.2	<5.0	1.47	1.80	3.27	<10.0	<1.0	8.76	11,65	6.53	3920	23.29	-128	0	0.790
total samples				3	m	8	60	3	63	2	3	63	3	6	3	60	2	60	177	m	60	62	-	-	+	33		2	2	2	2	2	2	
Accommond	Parama	AEOOG17	1800		218	0.04		1180		T				0.0						c 0>	66.0	3.00	-1 48	8	0.01	44.0	0.34	15.74	A RU	1790	18 12	-64.0	0	0.920
Accountment	7/45/74	AC027A7	1760	202	226	40.40	280	1100	8 77 Y	C.F.O.	250	83.3	202		0.85	202	50 10	0 57	5.75	202	0.50	1 59	183	3.21	2100	40	11.27	13.81	677	1840	25.08	-101		0.830
- 100	***/CT//	1		0	6	2	0		2	0	2	0	0	2	2	0	0	0	-	6	2	2	2	0	2	2		2	2	2	2	100	2 2	
				•			-	-		-					-		-	-					1											
Assessment 2/15/24	2/15/24	AF90633	6940		657	<0.10	447	2244		<5.0	0.5>	0 26.9	<0.5		<5.0	3.9		0 <1.0	<5.0	<0.2	<5.0	0.472	0.882	1.354	<10.0	<1.0	5.90	6.44	6.11	2800	19.38	43.0	0	1.69
Assessment	7/17/24	AG03764	9250	909	942	<0.1		3348						<0.5			<0.1			<0.2	<5.0	0.962		2.862	<10.0	<1.0	7.94	4.40	5.94	4130	24.80	-100	0	0.780
4 4 4 4 4																																		

2. All Bedge and the Administration (Correction Returns).

2. Due to challenge with taboratory delay, all providender samples were not analyzed by a single absoratory. This account for the majority of the reporting limit variability, Marrix interference also contributed to variable RILs.

4. Deet to challenges with taboratory delay, all providender samples were not analyzed by a single absoratory. This accounts for the majority of the reporting limit variability, Marrix interference also contributed to variable RILs.

4. Deet to challenge with taboratory delay, and the casing (Dico), the wester surface. Elevation is shown relative to mean sea here! (ms).

5.*** resears not collected. Marrix or quipture a simple.

Table 2
Cross Generating Station

2024 Synoptic Water Levels for Groundwater Monitoring Wells

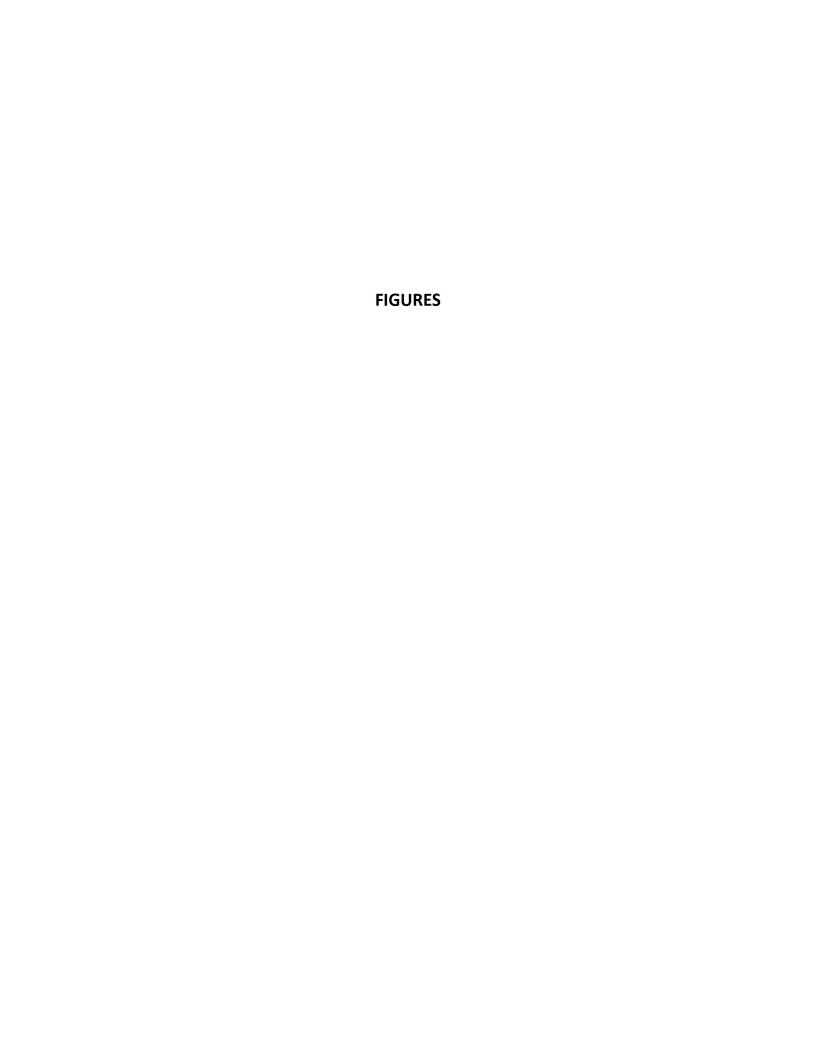
Top of Casing Depth to CW Flovation Depth to	to water	\(\frac{1/2024}{GW}\) \(\frac{1}{GW}\) \
Well Name Elevation (ft inst) Groundwater (ft inst) Groundwat	water (c)	Elevation (ft ms) 74.11 74.33 74.30 72.01 74.15 73.96 73.11 72.88 73.12 72.63 72.86 82.57 74.24 73.60 72.01 71.84 72.91 71.34 72.91 73.73 73.95 73.15 72.98 74.08 73.85 73.57 73.15 72.78 72.11
PM-1	1	(ft msj) 74.11 74.33 74.30 72.01 74.15 73.96 73.11 72.88 73.12 72.63 72.86 82.57 74.24 73.60 72.01 71.84 72.91 72.91 71.34 73.63 72.96 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91
PM-1 83.24 7.75 75.49 8.14 83.24 8.50 74.74 9.1 CBW-1 85.80 8.50 77.30 9.12 85.80 10.41 75.39 11. CAP-1 82.70 8.50 74.20 6.61 82.70 7.66 75.04 8.4 CAP-2 89.70 15.10 74.60 15.91 89.70 16.98 72.72 17. CAP-3 91.49 14.70 76.79 15.47 91.49 16.54 74.95 17. CAP-4 91.77 15.05 76.72 15.77 91.77 16.67 74.80 17. CAP-5 91.78 14.60 77.18 15.26 91.78 16.67 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.82 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.64 17.57 74.07 18. CAP-10	77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	74.33 74.30 72.01 74.15 73.96 73.11 72.88 73.12 72.63 72.86 82.57 74.24 73.60 72.01 71.84 72.91 72.91 73.73 73.85 73.38 72.92 72.91 73.73 74.92 75.92 76.93 77.93
CBW-1 85.80 8.50 77.30 9.12 85.80 10.41 75.39 11. CAP-1 82.70 8.50 74.20 6.61 82.70 7.66 75.04 8.4 CAP-2 89.70 15.10 74.60 15.91 89.70 16.98 72.72 17. CAP-3 91.49 14.70 76.79 15.47 91.49 16.54 74.95 17. CAP-4 91.77 15.05 76.72 15.77 91.77 16.97 74.80 17. CAP-5 91.78 14.60 77.18 15.26 91.78 17.66 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.81 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.64 17.57 74.07 18. CAP-8 91.61 15.95 75.66 16.67 91.61 19.30 73.31 18. CAP-10	77 7 7 9 9 9 9 9 9 1 9 1 9 1 9 1 9 1 9 1	74.33 74.30 72.01 74.15 73.96 73.11 72.88 73.12 72.63 72.86 82.57 74.24 73.60 72.01 71.84 72.91 72.91 73.73 73.85 73.38 72.92 72.91 73.73 74.92 75.92 76.93 77.93
CAP-1 82.70 8.50 74.20 6.61 82.70 7.66 75.04 8.4 CAP-2 89.70 15.10 74.60 15.91 89.70 16.98 72.72 17. CAP-3 91.49 14.70 76.79 15.47 91.49 16.54 74.95 17. CAP-4 91.77 15.05 76.72 15.77 91.77 16.97 74.80 17. CAP-5 91.78 14.60 77.18 15.26 91.78 17.66 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.82 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.62 18.05 73.77 18. CAP-8 91.61 15.95 75.66 16.67 91.61 18.30 73.31 18. CAP-10 95.68 20.25 75.43 21.12 95.68 22.40 73.28 13. CAP-11 <td>9 9 4 4 4 1 1 7 7 7 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>74.30 72.01 74.15 73.96 73.11 72.88 73.12 72.86 82.57 74.24 73.60 72.01 71.84 72.91 71.34 72.91 72.91 71.34 72.91 73.33 73.38 72.92 72.91 73.73 72.98 74.08 73.85 73.85 73.85 73.15 72.78 72.78</td>	9 9 4 4 4 1 1 7 7 7 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	74.30 72.01 74.15 73.96 73.11 72.88 73.12 72.86 82.57 74.24 73.60 72.01 71.84 72.91 71.34 72.91 72.91 71.34 72.91 73.33 73.38 72.92 72.91 73.73 72.98 74.08 73.85 73.85 73.85 73.15 72.78 72.78
CAP-2 89.70 15.10 74.60 15.91 89.70 16.98 72.72 17. CAP-3 91.49 14.70 76.79 15.47 91.49 16.54 74.95 17. CAP-4 91.77 15.05 76.72 15.77 91.77 16.97 74.80 17. CAP-5 91.78 14.60 77.18 15.26 91.78 17.66 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.82 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.64 17.57 74.07 18. CAP-8 91.61 15.95 75.66 16.67 91.61 18.30 73.31 18. CAP-9 91.59 14.35 77.24 14.62 91.59 17.82 73.77 18. CAP-10 95.68 20.25 75.43 21.12 95.68 22.40 73.28 13. CAP-11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74.15 73.96 73.11 72.86 73.12 72.63 72.86 82.57 74.24 73.60 72.01 71.84 72.91 72.91 71.34 73.63 73.38 72.92 72.91 73.73 73.73 72.98 74.08 73.85 73.57 73.15 74.15
CAP-3 91.49 14.70 76.79 15.47 91.49 16.54 74.95 17. CAP-4 91.77 15.05 76.72 15.77 91.77 16.97 74.80 17. CAP-5 91.78 14.60 77.18 15.26 91.78 17.66 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.82 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.64 17.57 74.07 18. CAP-8 91.61 15.95 75.66 16.67 91.61 18.30 73.31 18. CAP-9 91.59 14.35 77.24 14.62 91.59 17.82 73.77 18. CAP-10 95.68 20.25 75.43 21.12 95.68 22.40 73.28 13. CAP-11 95.55 19.20 76.35 18.72 95.55 20.71 74.84 21. CAP-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74.15 73.96 73.11 72.86 73.12 72.63 72.86 82.57 74.24 73.60 72.01 71.84 72.91 72.91 71.34 73.63 73.38 72.92 72.91 73.73 73.73 72.98 74.08 73.85 73.57 73.15 74.15
CAP-5 91.78 14.60 77.18 15.26 91.78 17.66 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.82 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.64 17.57 74.07 18. CAP-8 91.61 15.95 75.66 16.67 91.61 18.30 73.31 18. CAP-9 91.59 14.35 77.24 14.62 91.59 17.82 73.77 18. CAP-10 95.68 20.25 75.43 21.12 95.68 22.40 73.28 13. CAP-11 95.55 19.20 76.35 18.72 95.55 20.71 74.84 21. CAP-12 98.33 22.25 76.08 23.72 98.33 24.13 74.20 24. CAP-12 98.33 24.13 74.20 24. R.83 80.77 7.65 73.12 8. <t< td=""><td>77 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td><td>73.11 72.88 73.12 72.63 72.86 82.57 74.24 73.60 72.91 71.84 72.91 73.63 73.38 72.92 72.91 73.73 72.92 73.73 72.98 74.08 73.85 73.57 73.15</td></t<>	77 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	73.11 72.88 73.12 72.63 72.86 82.57 74.24 73.60 72.91 71.84 72.91 73.63 73.38 72.92 72.91 73.73 72.92 73.73 72.98 74.08 73.85 73.57 73.15
CAP-5 91.78 14.60 77.18 15.26 91.78 17.66 74.12 18. CAP-6 91.82 14.65 77.17 15.89 91.82 18.05 73.77 18. CAP-7 91.64 14.75 76.89 15.19 91.64 17.57 74.07 18. CAP-8 91.61 15.95 75.66 16.67 91.61 18.30 73.31 18. CAP-9 91.59 14.35 77.24 14.62 91.59 17.82 73.77 18. CAP-10 95.68 20.25 75.43 21.12 95.68 22.40 73.28 13. CAP-11 95.55 19.20 76.35 18.72 95.55 20.71 74.84 21. CAP-12 98.33 22.25 76.08 23.72 98.33 24.13 74.20 24. CAP-13 80.77 4.15 76.62 4.78 80.77 7.65 73.12 8. CCMLF-1	77 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	72.88 73.12 72.63 72.66 82.57 74.24 73.60 72.01 71.84 72.91 71.34 73.63 73.33 72.92 72.91 73.73 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 72.91 73.73 73.75 74.08 73.57 73.15 72.78 72.78 72.71
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CCMLF-1 80.86 3.45 77.41 4.00 80.86 7.11 73.75 7.5 CCMLF-1D 80.65 3.20 77.45 3.74 80.65 6.89 73.76 7.7 CCMLF-2 84.08 6.75 77.33 7.43 84.08 11.53 72.55 12. POZ-3 82.61 4.30 78.81 4.98 82.61 7.80 74.81 85. POZ-4 82.73 3.95 78.78 5.07 82.73 8.34 74.39 9.3 POZ-5D 82.49 4.15 78.34 5.21 82.49 8.56 73.93 9.5 POZ-6 83.84 5.80 78.04 6.44 83.84 9.86 73.98 10. POZ-7 82.02 3.95 78.07 4.77 82.02 7.44 74.58 8.2 POZ-8 83.13 4.80 78.33 5.84 83.13 9.12 74.01 10. CLF1B-1	33 35 55 36 37 38 39 55	72.91 72.91 71.34 73.63 73.38 72.92 72.91 73.73 72.98 74.08 73.85 73.57 73.15 72.78 72.11
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POZ-5D 82.49 4.15 78.34 5.21 82.49 8.56 73.93 9.3 POZ-6 83.84 5.80 78.04 6.44 83.84 9.86 73.98 10. POZ-7 82.02 3.95 78.07 4.77 82.02 7.44 74.58 8.3 POZ-8 83.13 4.80 78.33 5.84 83.13 9.12 74.01 10. CLF1B-1 83.76 6.00 77.76 6.66 83.76 8.70 75.06 9.6 CLF1B-2 82.04 4.35 77.69 5.05 82.04 7.18 74.86 8.1 CLF1B-3 82.75 3.95 78.80 5.82 82.75 8.18 74.57 9.1 CLF1B-4 82.74 3.85 78.89 5.80 82.74 8.55 74.19 9.2 CLF1B-5 81.09 3.40 77.69 4.23 81.09 7.32 73.77 8.3 CCMAP-1 <t< td=""><td>33 3 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6</td><td>72.92 72.91 73.73 72.98 74.08 73.85 73.57 73.15 72.78 72.11</td></t<>	33 3 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	72.92 72.91 73.73 72.98 74.08 73.85 73.57 73.15 72.78 72.11
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CLF1B-1 83.76 6.00 77.76 6.66 83.76 8.70 75.06 9.6 CLF1B-2 82.04 4.35 77.69 5.05 82.04 71.8 74.86 8.1 CLF1B-3 82.75 3.95 78.80 5.82 82.75 8.18 74.57 9.1 CLF1B-4 82.74 3.85 78.89 5.80 82.74 8.55 74.19 9.5 CLF1B-5 81.09 3.40 77.69 4.23 81.09 7.32 73.77 8.3 CLF1B-5D 80.93 3.85 77.08 4.55 80.93 7.72 73.21 8.8 CCMAP-1 80.21 4.50 75.71 5.10 80.21 7.61 72.60 8.4 CCMAP-2 81.24 6.50 74.74 7.14 81.24 8.02 73.22 8.5 CCMAP-3 81.91 6.15 75.76 6.92 81.91 8.58 73.33 8.9 CCMAP-4		74.08 73.85 73.57 73.15 72.78 72.11
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CCMAP-4 81.83 4.45 77.38 5.19 81.83 7.64 74.19 8.6	. 1	72.69
	$\overline{}$	72.96
CCMAP-5 83.71 6.15 77.56 6.93 83.71 9.33 74.38 10.	$\overline{}$	73.23
500 500 000 000 100 100 100 100 100 100	-	73.42
CCMAP-6 84.41 7.90 76.51 8.45 84.41 11.61 72.80 12. CCMAP-7 81.57 7.05 74.52 7.59 81.57 8.21 73.36 8.5	_	71.84
	-	72.64
CCMAP-8 82.89 6.40 76.49 6.99 82.89 9.80 73.09 10. CCMAP-9 82.51 6.00 76.51 6.62 82.51 9.75 72.76 10.	$\overline{}$	72.17 71.71
CCMAP-10 81.80 5.55 76.25 6.08 81.80 9.10 72.70 10.	$\overline{}$	71.79
CCMAP-11 80.29 4.00 76.29 5.01 80.29 8.11 72.18 9.1	$\overline{}$	71.19
CCMAP-12 80.58 4.75 75.83 5.71 80.58 7.42 73.16 8.6		72.58
CCMAP-13 80.11 4.55 75.56 5.36 80.11 6.93 73.18 7.6	_	72.51
CCMAP-14 78.64 4.40 74.24 4.71 78.64 5.43 73.21 6.0	$\overline{}$	72.60
CGYP-1 91.89 15.95 75.94 19.69 91.89 17.56 74.33 17.	$\overline{}$	73.91
CGYP-2 84.88 8.50 76.38 13.20 84.88 10.56 74.32 11.	$\overline{}$	73.87
CGYP-3 83.95 6.95 77.00 9.41 83.95 9.37 74.58 9.8	$\overline{}$	74.11
CGYP-4 83.49 6.65 76.84 8.27 83.49 8.20 75.29 8.6	-	74.89
CGYP-5 84.12 7.90 76.22 9.09 84.12 8.14 75.98 8.3	$\overline{}$	75.77
CGYP-6 83.93 7.15 76.08 9.46 74.47 9.9	-	74.02
CGYP-7 85.37 9.20 76.17 13.10 85.37 10.97 74.40 11.	2	73.95
CGSPZ-1 83.31 7.45 75.86 8.64 83.31 8.61 74.70 9.2		74.09
CGSPZ-2 82.56 6.70 75.86 9.38 82.56 8.29 74.27 8.5		74.01
CGSPZ-3 82.85 4.75 78.10 6.19 82.85 9.91 72.94 10.		72.34
CGSPZ-4 81.28 3.80 77.48 4.82 81.28 7.68 73.60 8.7		72.55
CGSPZ-5 80.56 2.75 77.81 5.39 80.56 8.27 72.29 9.6		70.94
CCMGP-1 84.30 8.15 76.15 13.43 84.30 10.07 74.23 10.	3	73.77
CCMGP-2 96.73 20.05 76.68 24.20 96.73 22.54 74.19 22.	7	73.76
CCMGP-3 84.44 8.45 75.99 12.38 84.44 10.54 73.90 10.	7	73.47
CCMGP-4 84.82 8.50 76.32 12.78 84.82 10.31 74.51 10.	9	74.03
CCMGP-5 79.91 4.70 75.21 6.06 79.91 6.56 73.35 7.0		72.83
CGS-PSE-1 75.07 - 75.27 - 74.97 -		74.80
CGS-PSE-2 81.99 - 80.27 - 79.30 -		76.85
CGS-PSE-3 79.52 - 76.88 - 76.49 -		76.52
CGS-PSE-4 76.37 - 75.64 - 74.88 -		75.43
CGS-PSE-5 78.50 - 77.28 - 76.57 -		76.49
CGS-PSE-6 74.71 - 74.58 - 74.46 -		74.21
CGS-PSE-7 83.35 - 85.75 - 85.30 -		86.29
CGYPSW-1-WSE 75.13 - 75.16 - 74.88 -		74.93
CGYPSW-2-WSE 75.15 - 75.18 - 75.02 -		75.01
CGYPSW-3-WSE 75.49 - 75.37 - 75.45 -		75.26
CGYPSW-4-WSE 75.83 - 75.69 - 75.76 -		75.75
CGYPSW-6-WSE 75.12 - 75.17 - 74.85 -		74.70
CGYPSW-7-WSE 75.15 - 75.20 - 74.83 -		74.76
CGYPSW-8-WSE 75.14 - 75.23 - 74.86 -		74.79
GMPSW-WET-1SWE 75.98 - 75.81 - 74.35 -		74.24
GMPSW-WET-2SWE 75.55 - 75.34 - 74.49 -		74.50
GMPSW-CPD-1SWE 78.47 - 77.62 - 77.38 -		77.74
STAFF GAUGE 76.80 - 76.45		-
STAFF GAUGE 76.63 - 76.48		-

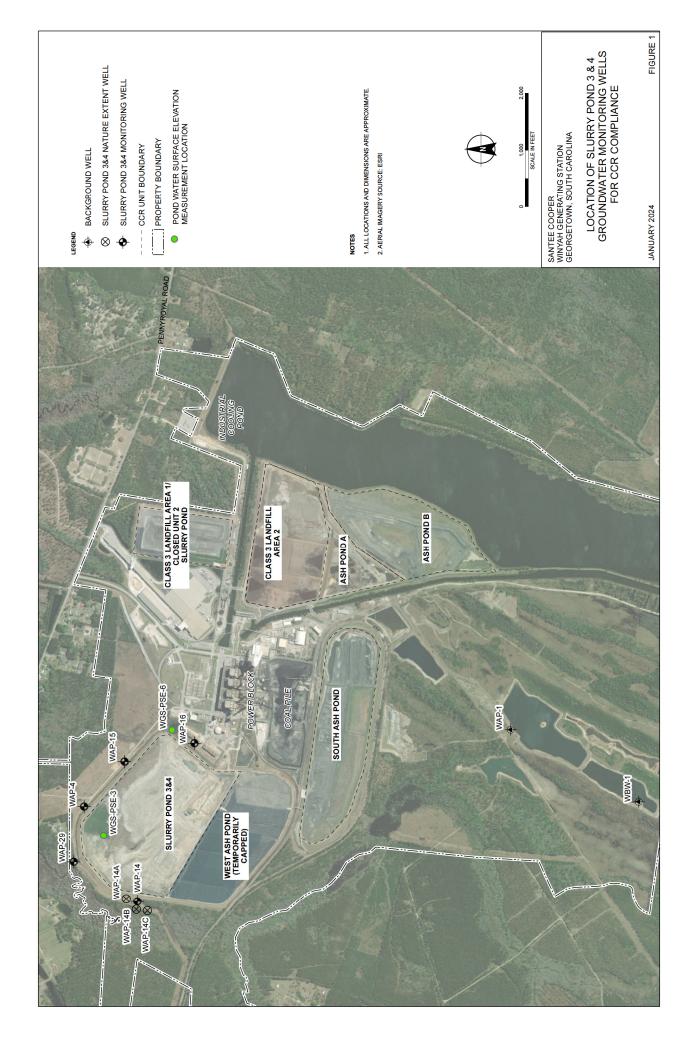
Notes:

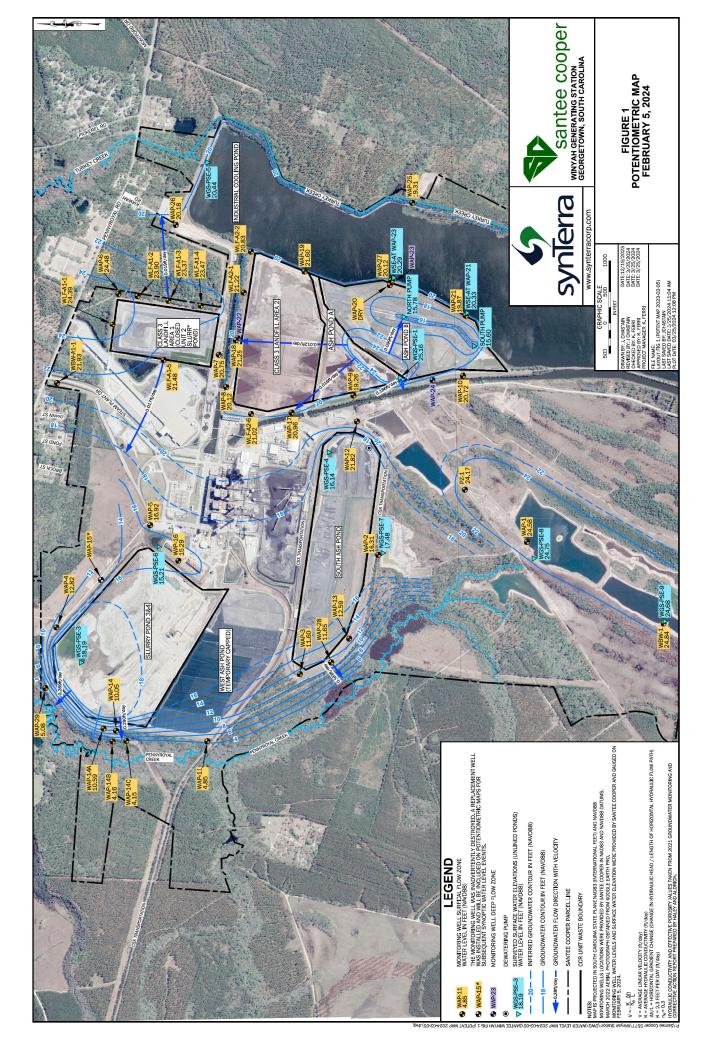
^{1.} Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SCDES NPDES Permit #SC0037401 and are not used for CCR constituent concentrations.

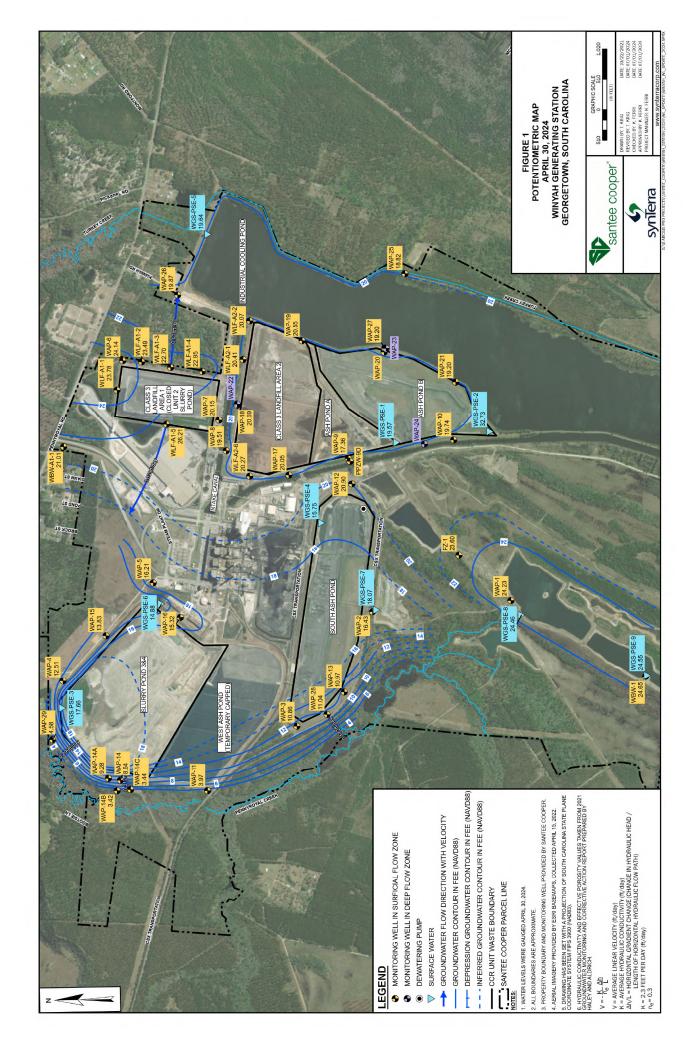
^{2.} Depth to Groundwater is measured below the top of casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to the mean sea level (msl).

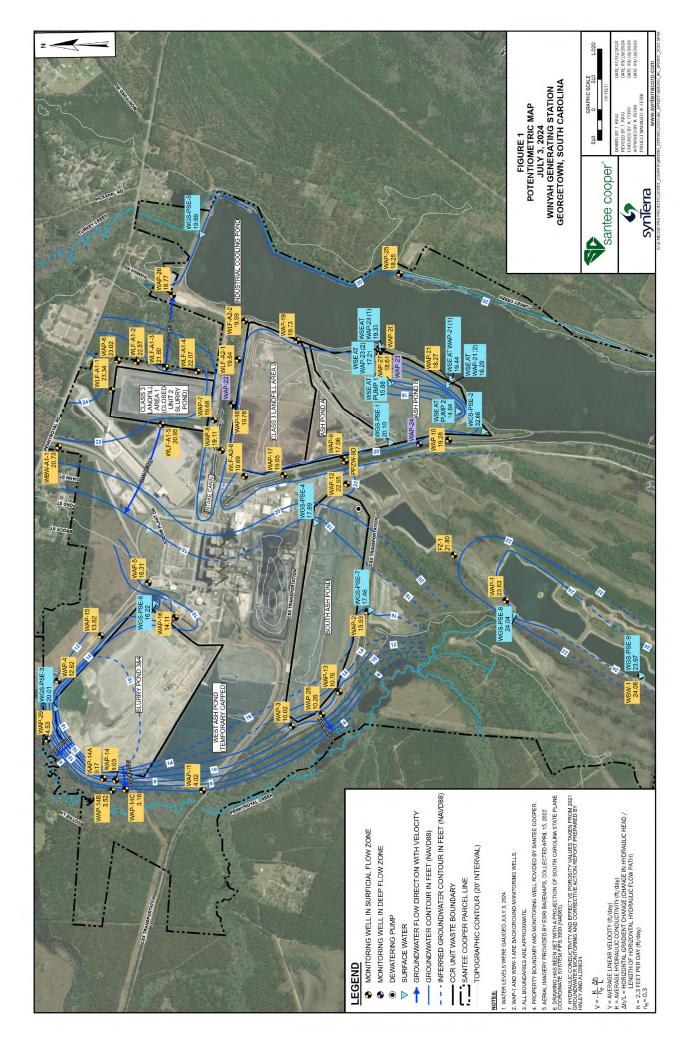
^{3.} Pond surface elevations (PSE) and staff gauge elevations were collected to aid in the potentiometric surface interpretation elevation.

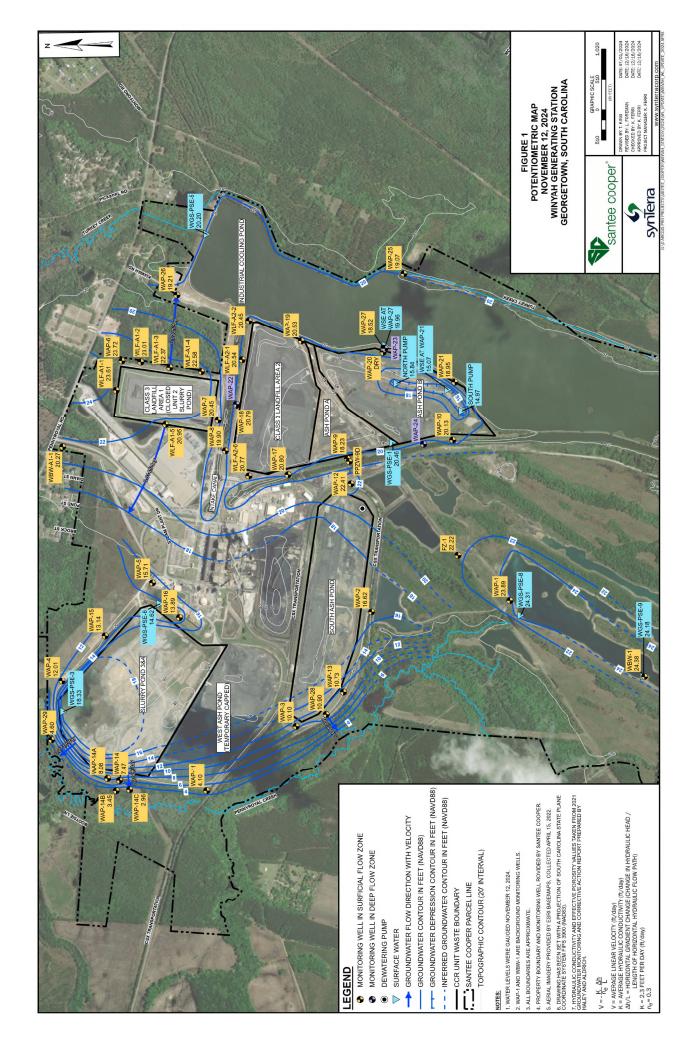


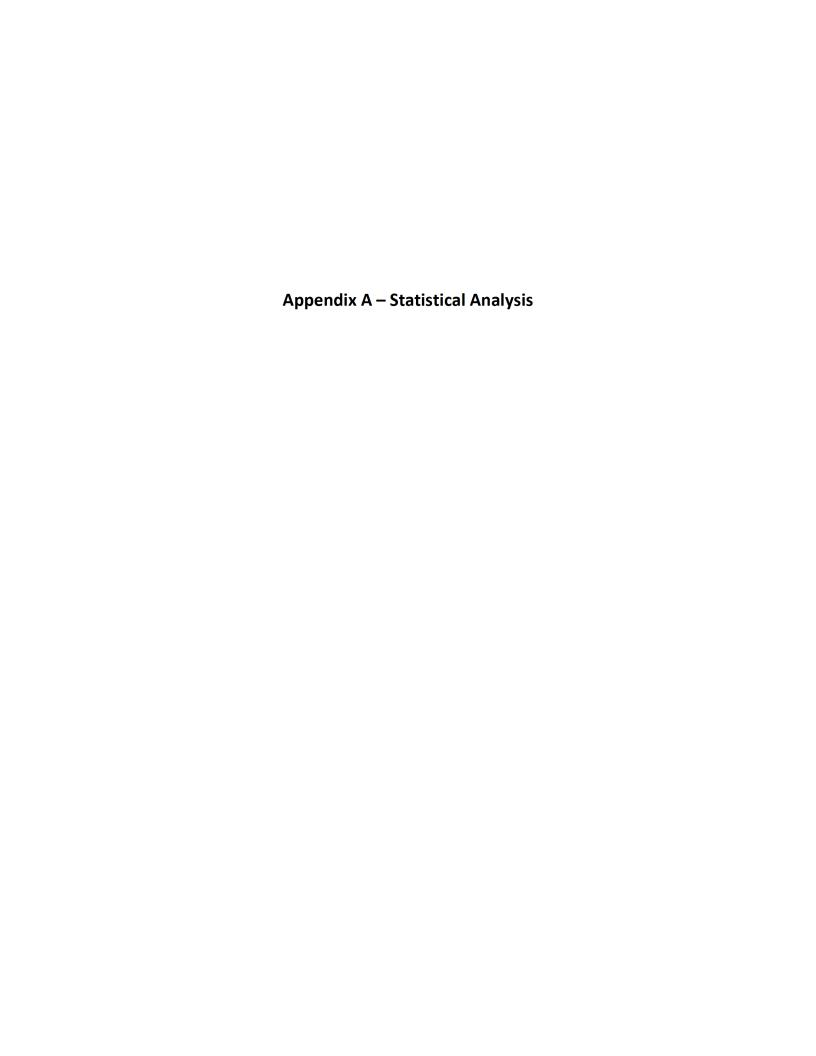














HALEY & ALDRICH, INC. 400 Augusta Street Suite 100 Greenville, SC 29601 864.214.8750

TECHNICAL MEMORANDUM

July 15, 2024

File No. 132892-100-009-02

SUBJECT: Statistical Evaluation of the February and March 2024 Semiannual Groundwater

Assessment Monitoring Data, Winyah Generating Station, Slurry Pond 3 & 4

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the February and March 2024 semiannual assessment monitoring event for Winyah Generating Station (WGS) Slurry Pond 3 & 4. Data for this groundwater sampling event were validated on April 16 and April 24, 2024 by Santee Cooper.

BACKGROUND

The WGS Slurry Pond 3 & 4 ceased receipt of all coal combustion residual (CCR) and non-CCR wastewater inflows prior to April 11, 2021. Closure by excavation and removal of CCR is currently underway.

Statistically significant levels (SSLs) of arsenic and lithium above Groundwater Protection Standards (GWPS) were identified in previous assessment monitoring events. Subsequently, an alternative source demonstration (ASD) was completed on September 12, 2019, which concluded that a source other than the WGS Slurry Pond 3 & 4 was contributing to the SSLs for arsenic and lithium. Accordingly, the unit has remained in assessment monitoring.

Recent analytical testing results were evaluated to determine if SSLs exist above GWPS of Appendix IV groundwater monitoring constituents. Using interwell and intrawell evaluations, data from the semiannual groundwater sampling event for the downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4)) represents a SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL). This statistical method was certified by Haley & Aldrich, Inc. on October 12, 2017.

A combination of interwell and intrawell evaluations were used for the statistical analysis. Interwell evaluations were performed for Appendix IV constituents detected downgradient of Slurry Pond 3 & 4 and compared to the most recent values from downgradient compliance wells against a background dataset. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of

South Carolina Public Service Authority (Santee Cooper) July 15, 2024 Page 2

the maximum contaminant level, regional screening level (RSL), or site background concentration. The intrawell evaluation for arsenic and lithium compares the most recent values from each compliance well against a background dataset composed of its own historical data. Data from the most recent groundwater sampling event from each compliance well were compared to the corresponding GWPS to determine if a SSL existed. The results of the statistical analysis are presented in Table I.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the assumed distribution of background, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to development the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

If an Appendix IV constituent concentration from the event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate the presence of a SSL. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence.

After testing for outliers, the UTLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed. A visual inspection of the data was performed using distribution plots for the downgradient sample data. Based on our review, no sample data were identified as outliers that warranted removal from the dataset.

The background well (WAP-1 and WBW-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation.

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.



¹ Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.

South Carolina Public Service Authority (Santee Cooper) July 15, 2024 Page 3

TREND ANALYSIS

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table 1. In summary, analyzed trends for the compliance wells are identified as stable or decreasing. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSL. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

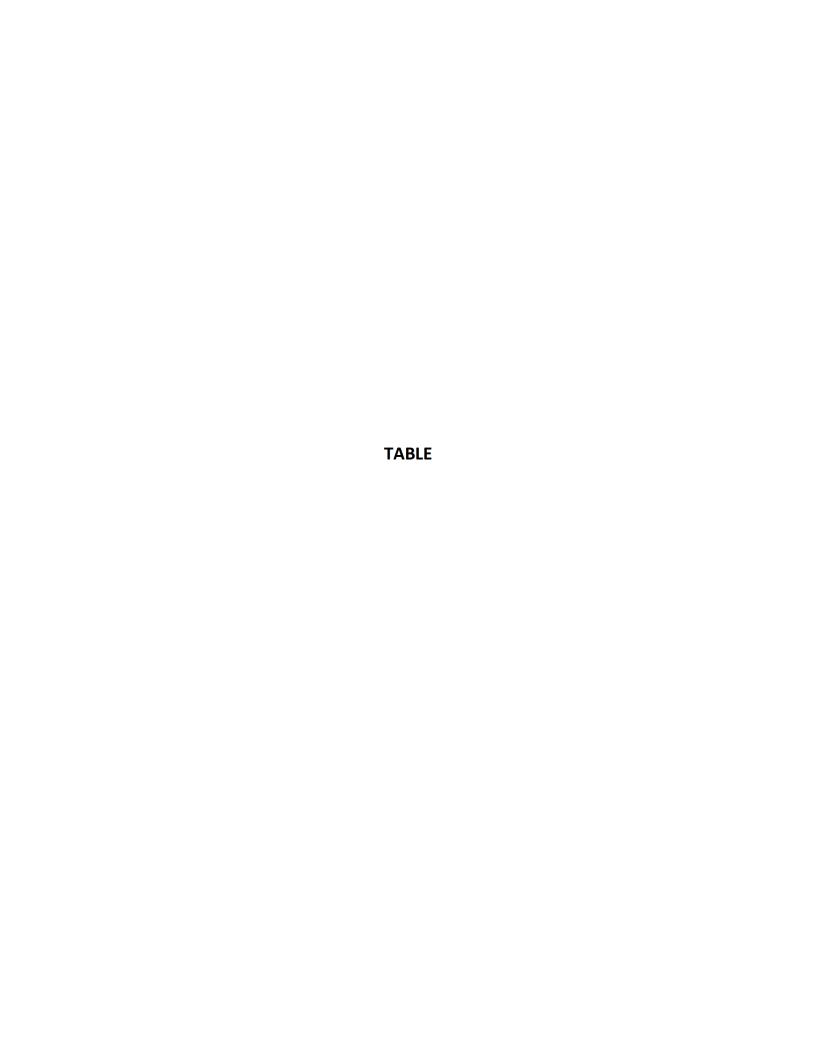
The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the February and March 2024 semiannual assessment monitoring event were compared to their respective GWPS (Table 1). A sample concentration greater than the GWPS is considered to represent a SSL. Interwell comparisons were used for most constituents in downgradient wells. An intrawell comparison was used for arsenic and lithium as supported by the successful 2019 Alternate Source Demonstration (ASD). SSLs were not identified for the February and March 2024 monitoring event.

Arsenic, barium, fluoride, lithium, and radium were detected; however, they fell below their respective SSLs. Short-term increases in the concentrations of Appendix IV constituents are not unexpected during dewatering and excavation closure activities. Concentrations are expected to decrease once the closure is complete and groundwater equilibrium is restored. The expected date for completing CCR removal for Slurry Pond 3 & 4 is 2025. Groundwater trends will continue to be monitored during future sampling events.

Enclosures:

Table 1 – WGS Slurry Pond 3 & 4 February and March 2024 Semiannual Assessment Monitoring





3S S	LURK	Y PO	ND 38	14 H 202	4 SEP	MANN	UALA	SSES	SMEN	NTO	ABLE 1	WGS SLURRY POND 3&4	EBRUARY AND MARCH 2024 SEMIANNUAL ASSESSMENT MONITORING AREA
1 :LURRY POND 3&4 ARY AND MARCH 2024 SEMIANNUAL ASSESS WEN	Y POND 3&4 IND MARCH 2024 SEMIANNUAL ASSESS VIEN	ND 3&4 MARCH 2024 SEMIANNUAL ASSESSWEN	44 H 2024 SEMIANNUAL ASSESSWEN	4 SEMIANNUAL ASSESSVIEN	AIANNUAL ASSESSVIEN	UAL ASSESS WEN	SSESSMEN	SMEN					T MO
A. ILURRY POND 3&4 ARY AND MARCH 2024 SEMIANNUAL ASSESS WENT MONITOI	Y POND 3&4 IND MARCH 2024 SEMIANNUAL ASSESSMENT MONITOI	ND 3&4 MARCH 2024 SEMIANNUAL ASSESSWENT MONITOI	44 H 2024 SEMIANNUAL ASSESSWENT MONITOI	4 SEMIANNUAL ASSESS VIENT MONITO	AIANNUAL ASSESS VIENT MONITO	UAL ASSESSMENT MONITOL	SSESSMENT MONITO	SMENT MONITO	T MONITO				RING
J. ILURRY POND 3&4 ARY AND MARCH 2024 SEMIANNUAL ASSESSVIENT MONITORING /	Y POND 3&4 IND MARCH 2024 SEMIANNUAL ASSESS WENT MONITORING A	ND 3&4 MARCH 2024 SEMIANNUAL ASSESSWENT MONITORING /	44 H 2024 SEMIANNUAL ASSESSMENT MONITORING A	4 SEMIANNUAL ASSESS WENT MONITORING	AIANNUAL ASSESSVENT MONITORING	UAL ASSESSMENT MONITORING A	SSESSMENT MONITORING	SMENT MONITORING A	TMONITORING	ING			AREA
1. I.URRY POND 38.4 ARY AND MARCH 2024 SEMIANNUAL ASSESSWENT MONITORING AREA	Y POND 3&4 IND MARCH 2024 SEMIANNUAL ASSESSMENT MONITORING AREA	ND 3&4 MARCH 2024 SEMIANNUAL ASSESSWENT MONITORING AREA	44 H 2024 SEMIANNUAL ASSESS'NENT MONITORING AREA	A SEMIANNUAL ASSESSVIENT MONITORING AREA	AIANNUAL ASSESS VIENT MONITORING AREA	UAL ASSESSMENT MONITORING AREA	.SSESS VIENT MONITORING AREA	SVENT MONITORING AREA	T MONITORING AREA	IING AREA			

SSI	0 0 0 0 0	2 2 2 2	2 2 2 2	2 2 2 2	2 2 2 2	2 2 2 2	2222	2 2 2 2	2 2 2 2	2 2 2 2
of Exceedance above GWPS (SSL)	zzzz	zzzz	z z z z	2 2 2 2	z z z z	z z z z	z z z z	z z z z	z z z z	z z z z
GWPS (Higher of MCL/RSL or Background Limit)	0,025	0.010 0.048 0.010 0.010	2.000	4000	0.005	0.100	0.008	00.4	0.015	0.040 0.270 0.220 0.250
intra-well Analysis Fixceedance above Background at Individual Well		zzzz								z z z z
Upper Ex Prediction		0.005 0.008 0.005								0.031 0.270 0.220 0.250
Exceedance above Background at Individual	ZZZZ	z > z z	z z > z	z z z z	ZZZZ	zzzz	2 2 2 2	z > > >	ZZZZ	z z > z
Upper Tolerance B Limit a	0.025	6000	0.094	0.0005	0.0005	0.0050	0.0084	0.140	0.0100	0.012
95 LCL										
Detect?	2 2 2 2	2 > 2 2		2 2 2 2	2 2 2 2	2 2 2 2	2 2 2 2	2 > >	2 2 2 2	2 2 > >
February and March 2024 Concentration	0.005	0.005 0.043 0.005 0.005	0.032 0.048 0.223 0.080	0.0005	0.0005	0.005	0.0005	0.10 0.91 0.17 0.21	0.001 0.001 0.001 0.001	0.005 0.005 0.048 0.007
Distribution	Non- parametric	Non- parametric	n-parametric	4	Non- parametric	Non- parametric	Non- parametric	Non- parametric	Non- parametric	Non- parametric
Trend	NA N	NA NA NA Stable Decrease	Stable Increase Decrease Stable Stable Decrease	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	NA N	Increase NA NA NA NA NA NA NA	NA NA Stable Stable Decrease Stable	A A A A A A A	NA NA Decrease NA Stable NA
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CCR MCL/RSL	0000 0000 0000 0000 0000 0000 0000	0.01 0.01 0.01 0.01 0.01	2 2 2 2 2	0.004	0.005	0.1 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	900.0	4 4 4 4 4 4	0.015 0.015 0.015 0.015 0.015	0.04
Coefficient of Variance	0.7581 0.7935 0.847 0.847 1.694 0.847	0.2091 0.2405 0.2683 0.5934 0.5046 0.2851	0.6344 0.6632 0.2322 0.2075 0.7462 0.3275	0 0 0.2233 0.2233 2.036 0.2233	0 0 0.554 0.2233 0.4466 0.2233	0 0 0.3205 0.08662 0.3244 0.1431	1.468 0.53 0.0603 0.1915 3.234 0.1427	1.15E-08 0.1009 0.1781 0.4793 0.7228 0.2971	1.196 1.02 0.5008 1.109 2.164 1.074	0.193 0.2279 0.4261 2.134 1.9826 2.513
Standard	0.004588 0.004677 0.004894 0.004894 0.004894 0.009788 0.004894	0.0009258 0.001261 0.00179 0.01222 0.002518	0.01171 0.02728 0.01044 0.01167 0.01598 0.03641	0 0 0.000179 0.000179 0.001702 0.000179 fotal (mg/L)	0 0 0.0003252 0.0001179 0.0002358	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.001799 0.0003797 0.0003055 0.0001015 0.004956	0.01041 0.01041 0.01845 0.2584 0.11724 0.04714	0.002722 0.00271 0.00201 0.002 0.002 0.00198	0.001791 0.002079 0.0051 0.05835 0.08486
Variance	CCR Appendix-V: Antimony, Total (mg/L) 0.00002105 0.004584 0.00002398 0.004894 0.0002395 0.004894 0.0000479 0.005894 0.0000479 0.005898	0.0064 0.0000318 0.0064 0.00000139 0.001261 0.0004 0.00000139 0.001278 0.0064 0.00000319 0.001278 0.0064 0.00000317 0.0002318	COR Appendix-Viv. Barium, Total (reg.4), 20, 234 0, 0000137 0, 01171 0, 000014 0, 0000	0 000010000000000000000000000000000000	0 0 1.057E-07 1.389E-08 2.778E-08 1.389E-08	COR Appendix N. Chronnium, Total (mg/L) 0.005 0.01 0.01 2.8354-66 0.0013 2.8352-67 0.0015 2.8352-67 0.0015 0.0015 0.001602 CRA Appendix-N: Cobalt, Total (mg/L)	0.00838 3.237E-06 0.0017 0.0016 1.442E-07 0.0003 0.00064 9.333E-10 0.00003 0.00093 1.03E-08 0.00001 0.0066 1.278E-05 0.00901 0.0006 4.869E-09 0.0000	COA Appendacy Fudner (INFL) 1.13.25E-18 1.18.0001064 0.01041 1.006676 0.01842 0.006774 0.006872 0.01724 0.007322 0.00774 0.	7.407E-06 4.041E-06 5.352E-07 4.002E-06 7.866E-06 3.919E-06	0.0099 3.208E-06 0.001791 0.0116 4.322E-06 0.002079 0.0031 0.00000261 0.0051 0.27 0.00340 0.00588 0.00916 0.002516 0.05916
Maximum Detect	Appendix-IV 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0064 0.00042 0.00063 1	0.0534 C 0.093 C 0.093 C 0.093 C 0.0536 C 0.0556 C 0.0556 C 0.0556 C 0.0556	0.00351 1.	11 2 1 1	0.005 0.005 0.0031 0.0015 1 0.0019 4 CR Appendix-I	0.00838 3 0.0016 1 0.00064 9 0.00093 1 0.0066 1.	0.14 0.13 0.13 0.146 0.125 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.	0.00456 4 0.0031 5 0.0039 4 0.0012 3	0.0099 3 0.0116 4 0.031 0.0 0.2683 0.00916 0
95th Percentile	0.007 0.007 0.008 0.008 0.016	0.005 0.00819 0.005 0.04679 0.01239 0.005	0.044 0.081 0.0615 0.07945 0.6694 0.1797	0.0005 0.0005 0.000575 0.000575 0.000544 0.000575	0.0005 0.00095 0.000975 0.000115 0.000575	0.005 0.005 0.005 0.005 0.001 0.005	0.00315 0.0015 0.0005 0.0007 0.01301 0.00051	0.1 0.1285 0.129 0.907 0.552	0.01 0.00457 0.0025 0.0025 0.005 0.005	0.01 0.01 0.01649 0.1013 0.12482 0.01
50th Percentile (Median)	0.005 0.005 0.005 0.005 0.001	0.005 0.005 0.005 0.01705 0.01	0.015 0.0434 0.0433 0.05085 0.465	0.0005 0.0005 0.0005 0.0005 0.001	0.0005 0.0005 0.0005 0.0005 0.001	0.005 0.005 0.005 0.005 0.001	0.0005 0.0005 0.0005 0.001 0.001	0.1 0.1 0.54 0.32 0.155	0.001 0.001 0.001 0.002 0.002	0.01 0.01 0.01 0.0788 0.01
Mean	0.00605 0.00578 0.00578 0.01082 0.00578	0.00443 0.00524 0.00439 0.00999 0.00426	0.0185 0.0411 0.045 0.0562 0.459	0.0005 0.0005 0.000528 0.000528 0.001356 0.000528	0.0005 0.000587 0.000528 0.001029 0.000528	0.005 0.005 0.00527 0.0049 0.00484	0.000123 0.000716 0.000507 0.00053 0.00208	0.1 0.103 0.104 0.539 0.332 0.159	0.00227 0.00197 0.00146 0.0018 0.00288	0.00928 0.00912 0.012 0.0273 0.0908
Range of Non- Detect	0.005-0.025 0.002-0.025 0.002-0.025 0.002-0.025 0.002-0.025 0.002-0.025	0.003-0.005 0.003-0.005 0.003-0.005 0.003-0.005 0.003-0.005		0.2005-0.0005 0.0005-0.0005 0.0005-0.001 0.0005-0.001 0.0005-0.0005	0.2005-0.0005 0.2005-0.0005 0.0005-0.002 0.0005-0.001 0.0005-0.001	0.005-0.005 0.005-0.005 0.005-0.001 0.005-0.005 0.005-0.005	0.0005-0.0005 0.0005-0.0005 0.0005-0.0005 0.0005-0.001 0.0005-0.01	0.1-0.1 0.1-0.1 0.1-0.1 0.1-0.1 0.1-0.1	3.001-0.01 3.001-0.01 0.001-0.0025 3.001-0.01 5.001-0.01	0.005-0.01 0.005-0.01 0.005-0.01 0.005-0.05 0.01-0.01 0.005-0.25
Percent Ran Non-Detects	100% 0.1 100% 0.1 100% 0.1 100% 0.1 100% 0.1	100% 0.78% 0.096% 0.196	%0 %0 %0 %0	00% 000 000 000 000 000 000 000 000 000 000 000	CO %001 CO %001 00 %001 00 %001 00 %001	95% 0.1	52% 0.01 62% 0.01 95% 0.00 90% 0.00 67% 0.1	95% 91% 52% 9% 18%	82% 3. 96% 00 95% 3. 100% 3.	95% 0.2 41% 0.2 41% 0.3 41% 0.3 46% 0.3 66% 0.
Frequency of Pe	0/19 1 0/19 1 0/18 1 1/18 5 0/17 1 0/18 1	0/21 1 5/23 7 1/24 9 20/22 6 8/21 6	21/21 23/23 24/24 22/22 22/22	0/19 1 0/19 1 0/18 1 0/18 1 5/17 7 0/18 1	0/20 1 0/22 1 0/23 1 0/23 1 0/18 1 0/18 1 0/17 1 1 0/18 1 1	1/20 8	6/21 6 8/21 6 1/21 9 2/21 9 7/21 6	1/22 2 2/22 5 11/23 5 21/23 18/22 1	0/20 1 1/23 8 1/23 9 1/21 9 0/20 1 1/21 8	1/21 9 1/21 9 13/22 4 4/22 8 18/21 1
Freque Preque				WBW-1 0/2 WAP-1 0/3 WAP-4 0/3 WAP-14 0/3 WAP-15R 5/4 WAP-16 0/3 WA	WBW-1 0) WAP-1 0) WAP-14 0) WAP-15R 0)					
Locati	WBW-1 WAP-1 WAP-1 WAP-15 WAP-15 WAP-15 WAP-15	WBW-1 WAP-1 WAP-14 WAP-15R	WBW-1 WAP-1 WAP-4 WAP-14 WAP-15R	WBI WAI WAP WAP	WAI WAI WAP WAP-	WBW-1 WAP-1 WAP-14 WAP-15 WAP-15R	WBW-1 WAP-1 WAP-14 WAP-15R WAP-15R	WBW-1 WAP-1 WAP-4 WAP-14 WAP-15R	WBW-1 WAP-1 WAP-14 WAP-15R	WBW-1 WAP-1 WAP-4 WAP-14 WAP-15R

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7	0	0	0	3.7714	0	0	g/L)					5.632		(7)			0.5673			0.4342	2	1 0.4247	2 0.3874		_	1.0264	3 0.4714	-	0		0	0	0	0
CCR Appendix-IV: Mercury, Total (mg/L)	0	0	0	0.0001886	0	0	CCR Appendix-IV: Molybdenum, Total (mg/L)				0.09215	0.17932	0.04503	CCR Appendix-IV: Radium-226 & 228 (pCi/L)	1.499	1.588	1.844	1.615	3.108	1.802	CCR Aspendix-IV: Selenium, Total (mg/L	4 0.004831	9 0.004182	9 0.004415		2 0.011316	2 0.005303	CCR Appendix-IV: Thallium, Total (mg/L	0	0.0002065	0	0	0	0
dix-IV: Mercu	0	0	0	3.556E-08	0	0	x-IV: Molybde	0.00008226	4.048E-06	0.0000585	0.008492	0.016078	0.002028	ix-IV: Radium		2.521	3.399	2.607		3.247	dix-IV: Seleni	0.00002334	0.00001749	0.00001949	0.00003072	5 0.00006402	0.00002812	dix-IV: Thalli	0	4.263E-08	0	0	0	0
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	1/19	61/0	0/18	0/18	0/17	0/18		0/21	0/21	0/18	0/18	0/18	0/18		14/21	16/21	19/22	20/22	21/21	21/22		0/20	0/22	0/23	1/18	1/17	0/18		0/19	0/19	0/18	0/18	0/17	0/18
	WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16		WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16		WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16		WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16		WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16
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HALEY & ALDRICH, INC. 400 Augusta Street Suite 100 Greenville, SC 29601 864.214.8750

TECHNICAL MEMORANDUM

December 9, 2024 File No. 132892-102

SUBJECT: Statistical Evaluation of the July 2024 Semiannual Groundwater Assessment Monitoring

Data, Winyah Generating Station, Slurry Pond 3 & 4

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.95 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the July 2024 semiannual assessment monitoring event for Winyah Generating Station (WGS) Slurry Pond 3 & 4. Data for this groundwater sampling event were validated on October 9, 2024 by Santee Cooper.

BACKGROUND

The WGS Slurry Pond 3 & 4 ceased receipt of coal combustion residual (CCR) and non-CCR wastewater inflows prior to April 11, 2021. Closure by excavation and removal of CCR is currently underway.

Statistically significant levels (SSLs) of arsenic and lithium above Groundwater Protection Standards (GWPS) were identified in previous assessment monitoring events. Subsequently, an alternative source demonstration (ASD) was completed on September 12, 2019, which concluded that a source other than the WGS Slurry Pond 3 & 4 was contributing to the SSLs for arsenic and lithium. Accordingly, the unit has remained in assessment monitoring.

Recent analytical testing results were evaluated to determine if SSLs exist above GWPS of Appendix IV groundwater monitoring constituents. Using interwell and intrawell evaluations, data from the semiannual groundwater sampling event for the downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4)) represents a SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL). This statistical method was certified by Haley & Aldrich, Inc. on October 12, 2017.

A combination of interwell and intrawell evaluations were used for the statistical analysis. Interwell evaluations were performed for Appendix IV constituents detected downgradient of Slurry Pond 3 & 4 and compared to the most recent values from downgradient compliance wells against a background dataset. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. The

South Carolina Public Service Authority (Santee Cooper) December 9, 2024 Page 2

intrawell evaluation for arsenic and lithium compares the most recent values from each compliance well against a background dataset composed of its own historical data. Data from the most recent groundwater sampling event from each compliance well were compared to the corresponding GWPS to determine if a SSL existed. The results of the statistical analysis are presented in Table 1.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the assumed distribution of background, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to development the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

If an Appendix IV constituent concentration from the event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate the presence of a SSL. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence.

After testing for outliers, the UTLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed. A visual inspection of the data was performed using distribution plots for the downgradient sample data. Based on our review, no sample data were identified as outliers that warranted removal from the dataset.

The background well (WAP-1 and WBW-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation.

Per the document Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009 (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2023 and updated in the Chemstat output. The background dataset will be updated in Table 1 again after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.



¹ Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.

South Carolina Public Service Authority (Santee Cooper) December 9, 2024 Page 3

TREND ANALYSIS

Mann-Kendall trend analyses were performed on datasets of sufficient sample size. Results of the trend analysis are included on Table 1. In summary, analyzed trends for the compliance wells are identified as stable or decreasing. It is important to note that increasing trends are not part of the comparison criteria for triggering a SSL. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the July 2024 semiannual assessment monitoring event were compared to their respective GWPS (Table 1). A sample concentration greater than the GWPS is considered to represent a SSL. Interwell comparisons were used for most constituents in downgradient wells. An intrawell comparison was used for arsenic and lithium as supported by the successful 2019 Alternate Source Demonstration (ASD). SSLs were not identified for the July 2024 monitoring event.

Antimony, arsenic, barium, fluoride, lithium, and radium were detected; however, they fell below their respective SSLs. Short-term increases in the concentrations of Appendix IV constituents are not unexpected during dewatering and excavation closure activities. Concentrations are expected to decrease once the closure is complete and groundwater equilibrium is restored. The expected date for completing CCR removal for Slurry Pond 3 & 4 is 2025. Groundwater trends will continue to be monitored during future sampling events.

Enclosures:

Table 1 – WGS Slurry Pond 3 & 4 July 2024 Semiannual Assessment Monitoring Data



TABLE

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	CCR MCL/RSL		900:0	9000	0.006	9000	9000		10.0	0.01	0.01	0.01	0.01	0.01	2	2	2	2	2	2		0.004	0.004	0.004	0.004	0.00	1000	0.005	0.005	0.005	0.005	0.005	0.005		0.1	0.1	0.1	0.1	0.1	9000	0000	9000	9000	9000	9000	4	4	4	4	4	,	0.015	0.015	0.015	0.015	0.015	CTO:O
	Coefficient of Variance		0.7454	677.0	0.8269	0.8287	0.8296		0.2047	0.2803	0.2627	0.5861	0.4928	0.2788	0.6311	0.6447	0.2353	0.2054	0.7282	0.3278		0	0	0.2179	0.2179	0.2170	6.170	0	0	0.546	0.2179	0.4358	0.2179		0	0.3143	0.08445	0.316	0.1394	37.4.0	0.5162	0.05895	0.1877	3.268	0.1392	0	0.09895	0.1746	0.4848	1.0176	0.3033	1.205	1.024	0.5006	1.109	2.166	C10.1
	Standard Deviation	(mg/L)	0.004472	0.004557	0.004757	0.004758	0.004759	mg/L)	0.0009117	0.00152	0.00116	0.01197	0.00246	0.001196	0.01149	0.02724	0.01048	0.01149	0.17196	0.03605	(mg/L)	0	0	0.0001147	0.0001147	0.0010012	(mg/L)	0	0	0.0003185	0.0001147	0.0002294	0.0001147	(mg/L)	0	0.001653	0.0004146	0.0015276	0.0006765	mg/L)	0.001706	0.00002985	0.00009925	0.00486	0.00006814 pr/L)	0	0.0102	0.01806	0.2711	0.17936	U.Unyroo	0.002667	0.001974	0.0007217	0.00196	0.003888	0.00134
	Variance	CC3 Appendix-IV: Antimony, Total (mg/L)	0.00002	0.00002077	0.00002263	0.00002264	0.00002265	C:R Appendix-IV: Arsenic, Total (mg/L)	8.312E-07	0.000002312	0.000001346	0.0001432	0.000003026	0.00063 0.000001429 0.001	0.0001319	0.000742	0.0001098	0.0001321	0.014786	0.0013	CCR Appendix-IV: Beryllium, Total (mg/L)	0	0	1.316E-US	1.316E-08	+	otal	0	0	1.014E-07	1.316E-08	2.632E-08	1.316E-08	CCK Appendix-IV: Chromium, Total (mg/L)	0	0.000002732	1.719E-07	1.1666E-06	4.576E-07	C.K.Appendix-IV: Cobalt, Total (mg/L)	1 3735-07	8.909E-10	9.85E-09	_	0.00056 4.643E-09 0.0 CCR Appendix-IV: Fluoride (mg/L)	0	0.000104	0.0003262	0.07349	0.016084	ndix-IV: Lead, Total (mg/L)	0.000007114	0.000003899	5.208E-07	0.000003841	0.0000007556	COOLOGO CON
	Maximum Detect	Appendix-IV:			+	0.0051	t	R Appendix-IV:		9600.0	0.00044			0.00063 C	0.0534		0.0818	0.093	9:9:0	0.18	Appendix-IV:			İ	+	0.00331	Appendix-IV:							Appendix-IV:	200	0.01		Н	0.0019	K Appendix-IV	0.00036	0.00064		\forall	0.00056 CCR Appendix	0.1	0.14	0.13	1.02	0.67					0.00039	0 0000	
	95th Percentile	g		90000	0.00727	0.00709	0.007			0.00847	0.005	0.04659	0.01238	0.005	0.04338	0.081	0.061	0.0789	699.0	0.1795		0.0005	0.0005	0.00035	0.00055	0.003340		0.0005	0.0005	0.000925	0.00055	0.0011	0.00055	3000	0.005	0.00925	0.005	0.01		9010000	0.003108	0.0005	6900000	0.01282	0.00031	0.1	0.127	0.1285	0.9865	0.577		0.01	0.004354	0.0025	0.0025	0.005	0.0023
	Soth Percentile (Median)		0.005	0.005	0.005	0.005	0.005		0.005	0.005	0.005	0.017	0.01	0.005	0.015	0.04355	0.043	0.0507	0.468	0.0945		0.0005	0.0005	0.000	0.0005	0,000	0000	0.0005	0.0005	0.0005	0.0005	0.001	0.0005	0.00	0.005	0.005	0.005	10.0	0.005	30000	0.000	0.0005	0.0005	0.001	0.000	0.1	0.1	0.1	0.565	0.32	erro	0.001	0.001	0.001	0.001	0.002	0.001
	Mean 50		9000	0.00585	0.00575	0.00574	0.00574		0.00445	0.00542	0.00442	0.0204	0.00999	0.00429	0.0182	0.0423	0.0445	0.0559	0.46	0.11		0.0005	0.0005	97900	0.000526	0.0001336	075000	0.0005	0.0005	0.000583	0.000526	0.001028	0.000526	9000	0.005	0.00526	0.00491	0.00982	0.00485	00110	0.0000	0.000506	0.000529	0.00203	0.00049	0.1	0.103	0.103	0.559	0.347	0.130	0.00221	0.00193	0.00144	0.00177	0.00283	0.00.0
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	Location Id		WBW-1	WAP-1	WAP-4	WAP-14	WAP-16		WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16	WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16		WBW-1	WAP-1	WAP	WAP-14	WAD-16	L	WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16	14/014/ 4	WAP-1	WAP-4	WAP-14	WAP-15R	WAP-16	AVDIAL 1	WBW-T	WAP-4	WAP-14	WAP-15R	WAY-15	WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	A PART	WBW-1	WAP-1	WAP-4	WAP-14	WAP-15R	MA.

TABLE 1 WGS SLURRY POND 3&4 JULY 2024 SEMIANNUAL ASSESSMENT MONITORING DATA

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TABLE 1 WGS SLURRY POND 3&4 JULY 2024 SEMIANNUAL ASSESSMENT MONITORING DATA

Appendix B:

Certificates of Analysis, External Lab Reports, & Field Parameters



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF90595

Location: GW Well WAP-1

Date: 02/05/2024

Sample Collector: WJK/BB

Loc. Code WAP-1

Time: 14:35

Loc. Code WAP-1			Time: 14:35		
Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	1.2	mg/L	02/13/2024	SKJACOBS	EPA 6020B
Arsenic	5.6	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Barium	81.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Calcium	8.8	mg/L	02/13/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Cobalt	0.84	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Iron	2460	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Magnesium	0.93	mg/L	02/13/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Boron	37.1	ug/L	02/14/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/14/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/14/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/20/2024	EUROFINS SAV	EPA 7470
Zinc	<10.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Fluoride	<0.10	mg/L	02/14/2024	KCWELLS	EPA 300.0
Chloride	11.6	mg/L	02/14/2024	KCWELLS	EPA 300.0
Sulfate	30.2	mg/L	02/14/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	80.00	mg/L	02/09/2024	KCWELLS	SM 2540C
Radium 226	2.03	pCi/L	03/05/2024	GEL	EPA 903.1 Mod
Radium 228	0.185	pCi/L	02/23/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.215	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod
pH	4.41	SU	02/05/2024	WJK/BB	
Copper	<5.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	02/13/2024	SKJACOBS	EPA 6020B

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID# 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID# 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID# 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date:



SANTEE COOPER ANALYTICAL SERVICES **CERTIFICATE OF ANALYSIS** LAB CERTIFICATION #08552

Sample # AF90599

Location: GW Well WAP-4

Date: 02/06/2024

Sample Collector: WJK/BB

Loc. Code WAP-4

Time: 12:45

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	02/13/2024	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Barium	32.3	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Calcium	53.8	mg/L	02/13/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Iron	1050	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Magnesium	3.7	mg/L	02/13/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/13/2024	SKJACOBS	EPA 6020B
Total Dissolved Solids	266.2	mg/L	02/09/2024	KCWELLS	SM 2540C
Chloride	7.81	mg/L	02/22/2024	KCWELLS	EPA 300.0
Sulfate	7.06	mg/L	02/22/2024	KCWELLS	EPA 300.0
рН	7.42	SU	02/06/2024	WJK/BB	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Eurofins" - Eurofins. - Lab ID# 98001; "Pace"-Pace Analytical Laboratory- Lab ID# 99030

Qualifiers: U-Value below RL; H-Holding Time Exceeded; J-Value is Estimated; M-Matrix Interference

Analysis Validated:

Linda Williams - Manager, Analytical Services

Validation Date: 3/8/29



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF90611

Location: GW Well WAP-14

Date: 02/19/2024

Sample Collector: WJK/BM

Loc. Code WAP-14

Time: 14:15

			11110. 11.10		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	42.9	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Barium	48.1	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Calcium	1190	mg/L	03/06/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Boron	8430	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/28/2024	EUROFINS SAV	EPA 7470
Fluoride	0.91	mg/L	02/23/2024	KCWELLS	EPA 300.0
Chloride	1470	mg/L	02/23/2024	KCWELLS	EPA 300.0
Sulfate	867	mg/L	02/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	5075	mg/L	02/28/2024	TDHARRIS	SM 2540C
Radium 226	0.552	pCi/L	03/17/2024	GEL	EPA 903.1 Mod
Radium 228	1.85	pCi/L	03/13/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.402	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod
pH	7.46	SU	02/19/2024	WJK/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date: 4//5/2



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF90612

Location: GW Well WAP-14

Date: 02/19/2024

Sample Collector: WJK/BM

Loc. Code WAP-14 DUP Time: 14:20

Loc. Code VVAP-14	DUP		Time: 14:20		
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	41.6	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Barium	47.1	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Calcium	1190	mg/L	03/06/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Antimony	6.4	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/06/2024	SKJACOBS	EPA 6020B
Boron	8200	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/28/2024	EUROFINS SAV	EPA 7470
Fluoride	0.95	mg/L	02/23/2024	KCWELLS	EPA 300.0
Chloride	1480	mg/L	02/23/2024	KCWELLS	EPA 300.0
Sulfate	873	mg/L	02/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	4970	mg/L	02/28/2024	SJLEVY	SM 2540C
Radium 226	1.04	pCi/L	03/17/2024	GEL	EPA 903.1 Mod
Radium 228	1.26	pCi/L	03/13/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.3	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date:



SANTEE COOPER ANALYTICAL SERVICES **CERTIFICATE OF ANALYSIS** LAB CERTIFICATION #08552

Sample # AF90613

Location: GW Well WAP-14A

Date: 02/15/2024

Sample Collector: WJK/BM

Loc. Code WAP-14A

Time: 13:31

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	6.5	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Barium	81.5	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/05/2024	SKJACOBS	EPA 6020B
Boron	5790	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Calcium	780	mg/L	02/29/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Cobalt	< 0.5	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Lithium	51.4	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/26/2024	EUROFINS SAV	EPA 7470
Molybdenum	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D
Lead	<1.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B
Radium 226	1.02	pCi/L	03/17/2024	GEL	EPA 903.1 Mod
Radium 228	-0.280	pCi/L	03/13/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.02	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod
Fluoride	0.10	mg/L	02/23/2024	KCWELLS	EPA 300.0
Chloride	1060	mg/L	02/23/2024	KCWELLS	EPA 300.0
Sulfate	699	mg/L	02/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	3324	mg/L	02/23/2024	KCWELLS	SM 2540C
pH	7.18	SU	02/15/2024	WJK/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Final Validation Date:

4/15/24



SANTEE COOPER ANALYTICAL SERVICES **CERTIFICATE OF ANALYSIS** LAB CERTIFICATION #08552

Sample # AF90614

Location: GW Well WAP-14B

Date: 02/20/2024

Sample Collector: WJK/BM

Loc. Code WAP-14B

Time: 13:07

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Barium	146	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Boron	6410	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Calcium	672	mg/L	03/12/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Lithium	19.0	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/28/2024	EUROFINS SAV	EPA 7470
Molybdenum	<5.0	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Lead	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Radium 226	6.88	pCi/L	03/17/2024	GEL	EPA 903.1 Mod
Radium 228	-2.70	pCi/L	03/13/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	6.88	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod
Fluoride	<0.10	mg/L	02/23/2024	KCWELLS	EPA 300.0
Chloride	870	mg/L	02/23/2024	KCWELLS	EPA 300.0
Sulfate	665	mg/L	02/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	3128	mg/L	02/28/2024	SJLEVY	SM 2540C
pH	6.89	SU	02/20/2024	WJK/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Final Validation Date:

4/15/24



SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF90615

Location: GW Well WAP-14C

Date: 02/20/2024

Sample Collector: WJK/BM

Loc. Code WAP-14C

Time: 11:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Barium	87.4	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Beryllium	< 0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Boron	453	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Calcium	147	mg/L	03/12/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Cobalt	3.2	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Lithium	21.3	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/28/2024	EUROFINS SAV	EPA 7470
Molybdenum	<5.0	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Lead	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Radium 226	1.91	pCi/L	03/17/2024	GEL	EPA 903.1 Mod
Radium 228	-1.32	pCi/L	03/13/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.91	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod
Fluoride	0.18	mg/L	02/23/2024	KCWELLS	EPA 300.0
Chloride	269	mg/L	02/23/2024	KCWELLS	EPA 300.0
Sulfate	109	mg/L	02/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	851.2	mg/L	02/28/2024	SJLEVY	SM 2540C
pH	6.49	SU	02/20/2024	WJK/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID# 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID# 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID# 23105001

Analysis Validated:

Lindal allian

Final Validation Date:

4/15/24

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF93805 Location: GW Well WAP-15 Date: 03/05/2024 Sample Collector: WJK/BM

Loc. Code WAP-15 Time: 12:50

200, 0000 11711 10	11110, 12.00					
Analysis	Result	Units	Test Date	Analyst	Method	
Arsenic	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Barium	223	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Beryllium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Calcium	522	mg/L	03/13/2024	SKJACOBS	EPA 6020B	
Cadmium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Cobalt	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Chromium	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Lead	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Antimony	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Selenium	<10.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Thallium	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Boron	4440	ug/L	03/12/2024	SKJACOBS	EPA 6010D	
Lithium	48.3	ug/L	03/12/2024	SKJACOBS	EPA 6010D	
Molybdenum	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6010D	
Mercury	<0.2	ug/L	03/12/2024	EUROFINS SAV	EPA 7470	
Fluoride	0.17	mg/L	03/07/2024	LCWILLIAMS	EPA 300.0	
Chloride	915	mg/L	03/07/2024	LCWILLIA	EPA 300.0	
Sulfate	470	mg/L	03/07/2024	LCWILLIA	EPA 300.0	
Total Dissolved Solids	2529	mg/L	03/13/2024	KCWELLS	SM 2540C	
Radium 226	1.57	pCi/L	04/02/2024	GEL	EPA 903.1 Mod	
Radium 228	3.49	pCi/L	03/28/2024	GEL	EPA 904.0	
Radium 226/228 Combined Calculation	5.06	pCi/L	04/16/2024	SJLEVY	EPA 903.1 Mod	
рН	6.65	SU	03/05/2024	WJK/BM		

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF93806 Location: GW Well WAP-15 Date: 03/05/2024 Sample Collector: WJK/BM

Loc. Code WAP-15 DUP Time: 12:55

LOC. Code WAF-15	DUP TIME: 12:55					
Analysis	Result	Units	Test Date	Analyst	Method	
Arsenic	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Barium	230	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Beryllium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Calcium	524	mg/L	03/13/2024	SKJACOBS	EPA 6020B	
Cadmium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Cobalt	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Chromium	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Lead	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Antimony	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Selenium	<10.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Thallium	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B	
Boron	4480	ug/L	03/12/2024	SKJACOBS	EPA 6010D	
Lithium	49.5	ug/L	03/12/2024	SKJACOBS	EPA 6010D	
Molybdenum	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6010D	
Mercury	<0.2	ug/L	03/12/2024	EUROFINS SAV	EPA 7470	
Fluoride	0.17	mg/L	03/07/2024	LCWILLIAMS	EPA 300.0	
Chloride	909	mg/L	03/07/2024	LCWILLIA	EPA 300.0	
Sulfate	458	mg/L	03/07/2024	LCWILLIA	EPA 300.0	
Total Dissolved Solids	2551	mg/L	03/13/2024	KCWELLS	SM 2540C	
Radium 226	1.79	pCi/L	04/02/2024	GEL	EPA 903.1 Mod	
Radium 228	0.983	pCi/L	03/28/2024	GEL	EPA 904.0	
Radium 226/228 Combined Calculation	2.773	pCi/L	04/16/2024	SJLEVY	EPA 903.1 Mod	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



Radium 226/228 Combined Calculation

One Riverwood Drive P.O. Box 2946101 Moncks Corner, SC 29461-2901 (843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF90617 Location: GW Well WAP-16

Date: 02/20/2024

Time: 09:51

Sample Collector: WJK/BM

Loc. Code WAP-16

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Barium	79.6	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Calcium	202	mg/L	03/12/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/12/2024	SKJACOBS	EPA 6020B
Boron	1890	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Lithium	7.12	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/27/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/28/2024	EUROFINS SAV	EPA 7470
Fluoride	0.21	mg/L	02/23/2024	KCWELLS	EPA 300.0
Chloride	216	mg/L	02/23/2024	KCWELLS	EPA 300.0
Sulfate	274	mg/L	02/23/2024	KCWELLS	EPA 300.0
Total Dissolved Solids	1160	mg/L	02/23/2024	KCWELLS	SM 2540C
Radium 226	3.90	pCi/L	03/17/2024	GEL	EPA 903.1 Mod
Radium 228	-1.48	pCi/L	03/13/2024	GEL	EPA 904.0

pCi/L

SU

Comments:

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Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

3.90

6.80

Validation date: 4/15/24

03/21/2024

02/20/2024

SJLEVY

WJK/BM

EPA 903.1 Mod



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF90633

Location: GW Well WAP-29

Date: 02/15/2024

Sample Collector: WJK/BM

Loc. Code WAP-29

Time: 14:12

Loc. Code WAI -29	11me. 14.12						
Analysis	Result	Units	Test Date	Analyst	Method		
Arsenic	<5.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Barium	26.9	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Beryllium	<0.5	ug/L	03/05/2024	SKJACOBS	EPA 6020B		
Calcium	397	mg/L	02/29/2024	SKJACOBS	EPA 6020B		
Cadmium	<0.5	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Cobalt	3.9	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Chromium	<5.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Lead	<1.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Antimony	<5.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Selenium	<10.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Thallium	<1.0	ug/L	02/29/2024	SKJACOBS	EPA 6020B		
Boron	6940	ug/L	02/26/2024	SKJACOBS	EPA 6010D		
Lithium	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D		
Molybdenum	<5.0	ug/L	02/26/2024	SKJACOBS	EPA 6010D		
Mercury	<0.2	ug/L	02/26/2024	EUROFINS SAV	EPA 7470		
Fluoride	<0.10	mg/L	02/23/2024	KCWELLS	EPA 300.0		
Chloride	657	mg/L	02/23/2024	KCWELLS	EPA 300.0		
Sulfate	447	mg/L	02/23/2024	KCWELLS	EPA 300.0		
Total Dissolved Solids	2244	mg/L	02/28/2024	SJLEVY	SM 2540C		
Radium 226	0.472	pCi/L	03/17/2024	GEL	EPA 903.1 Mod		
Radium 228	0.882	pCi/L	03/13/2024	GEL	EPA 904.0		
Radium 226/228 Combined Calculation	1.354	pCi/L	03/21/2024	SJLEVY	EPA 903.1 Mod		
pH	6.11	SU	02/15/2024	WJK/BM			

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date: 4/15/24



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03721 Location: GW Well WAP-1 Date: 07/01/2024 Sample Collector: ZM/BM

Loc. Code WAP-1 Time: 10:53

Analysis	Result	Units	Test Date	Analyst	Method		
Arsenic	9.6	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Barium	68.1	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Beryllium	<0.5	ug/L	07/22/2024	SKJACOBS	EPA 6020B		
Calcium	7.5	mg/L	07/19/2024	SKJACOBS	EPA 6020B		
Cadmium	<0.5	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Cobalt	0.75	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Chromium	<5.0	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Lead	<1.0	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Antimony	<5.0	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Selenium	<10.0	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Thallium	<1.0	ug/L	07/19/2024	SKJACOBS	EPA 6020B		
Boron	30.4	ug/L	07/19/2024	SKJACOBS	EPA 6010D		
Lithium	<5.0	ug/L	07/19/2024	SKJACOBS	EPA 6010D		
Molybdenum	<5.0	ug/L	07/19/2024	SKJACOBS	EPA 6010D		
Mercury	<0.2	ug/L	07/19/2024	EUROFINS SAV	EPA 7470		
Fluoride	<0.10	mg/L	07/08/2024	KCWELLS	EPA 300.0		
Chloride	9.26	mg/L	07/08/2024	KCWELLS	EPA 300.0		
Sulfate	30.8	mg/L	07/08/2024	KCWELLS	EPA 300.0		
Total Dissolved Solids	70.00	mg/L	07/03/2024	KRMATHER	SM 2540C		
Radium 226	2.13	pCi/L	08/07/2024	GEL	EPA 903.1 Mod		
Radium 228	2.16	pCi/L	08/02/2024	GEL	EPA 904.0		
Radium 226/228 Combined Calculation	4.29	pCi/L	08/14/2024	SJLEVY	EPA 903.1 Mod		
pH	4.42	SU	07/01/2024	ZM/BM			

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03766 Location: GW Well WBW-1 Date: 07/01/2024 Sample Collector: ZM/BM

Loc. Code WBW-1 Time: 09:54

Result	Units	Test Date	Analyst	Method
<5.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B
12.9	ug/L	07/23/2024	SKJACOBS	EPA 6020B
<0.5	ug/L	07/23/2024	SKJACOBS	EPA 6020B
1.8	mg/L	07/23/2024	SKJACOBS	EPA 6020B
<0.5	ug/L	07/23/2024	SKJACOBS	EPA 6020B
0.54	ug/L	07/23/2024	SKJACOBS	EPA 6020B
<5.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B
<1.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B
<5.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B
<10.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B
<1.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B
13.2	ug/L	07/18/2024	SKJACOBS	EPA 6010D
<5.0	ug/L	07/18/2024	SKJACOBS	EPA 6010D
<5.0	ug/L	07/18/2024	SKJACOBS	EPA 6010D
<0.2	ug/L	07/22/2024	EUROFINS SAV	EPA 7470
<0.10	mg/L	07/12/2024	KCWELLS	EPA 300.0
4.92	mg/L	07/12/2024	KCWELLS	EPA 300.0
7.22	mg/L	07/12/2024	KCWELLS	EPA 300.0
<25	mg/L	07/03/2024	KRMATHER	SM 2540C
0.102	pCi/L	08/07/2024	GEL	EPA 903.1 Mod
2.41	pCi/L	08/02/2024	GEL	EPA 904.0
2.512	pCi/L	08/14/2024	SJLEVY	EPA 903.1 Mod
4.04	SU	07/01/2024	ZM/BM	
	<5.0 12.9 <0.5 1.8 <0.5 0.54 <5.0 <1.0 <5.0 <1.0 13.2 <5.0 <5.0 <0.2 <0.10 4.92 7.22 <25 0.102 2.41 2.512	<5.0	<5.0	Result Units Test Date Analyst <5.0

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:

Linda Williams - Manager Analytical Services

and trimains manager randifical correct



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(843) 761-8000

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03728 Location: GW Well WAP-4 Date: 07/10/2024 Sample Collector: ZM/BM

WAP-4 Loc. Code Time: 09:13

200. 00dc 117 ti 1	Time, 05.10					
Analysis	Result	Units	Test Date	Analyst	Method	
Arsenic	<5.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Barium	33.5	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Beryllium	<0.5	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Calcium	49.0	mg/L	07/23/2024	SKJACOBS	EPA 6020B	
Cadmium	<0.5	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Cobalt	<0.5	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Chromium	<5.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Lead	<1.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Antimony	5.3	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Selenium	<10.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Thallium	<1.0	ug/L	07/23/2024	SKJACOBS	EPA 6020B	
Boron	141	ug/L	07/18/2024	SKJACOBS	EPA 6010D	
Lithium	6.25	ug/L	07/18/2024	SKJACOBS	EPA 6010D	
Molybdenum	<5.0	ug/L	07/18/2024	SKJACOBS	EPA 6010D	
Mercury	<0.2	ug/L	07/20/2024	EUROFINS SAV	EPA 7470	
Fluoride	<0.10	mg/L	07/19/2024	LCWILLIA	EPA 300.0	
Chloride	8.03	mg/L	07/19/2024	LCWILLIA	EPA 300.0	
Sulfate	17.0	mg/L	07/19/2024	LCWILLIA	EPA 300.0	
Total Dissolved Solids	212.5	mg/L	07/17/2024	KRMATHER	SM 2540C	
Radium 226	0.675	pCi/L	08/07/2024	GEL	EPA 903.1 Mod	
Radium 228	1.89	pCi/L	08/02/2024	GEL	EPA 904.0	
Radium 226/228 Combined Calculation	2.565	pCi/L	08/14/2024	SJLEVY	EPA 903.1 Mod	
pH	6.43	SU	07/10/2024	ZM/BM		

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID# 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03741

Location: GW Well WAP-14

Date: 07/17/2024

Sample Collector: ZM/BM

Loc. Code WAP-14 Time: 10:52

	Time, 10.02					
Analysis	Result	Units	Test Date	Analyst	Method	
Arsenic	16.6	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Barium	49.4	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Beryllium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Calcium	1210	mg/L	07/30/2024	SKJACOBS	EPA 6020B	
Cadmium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Cobalt	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Chromium	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Lead	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Antimony	5.1	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Selenium	<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Thallium	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Boron	8660	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
Lithium	5.63	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
Molybdenum	<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
Mercury	<0.2	ug/L	08/01/2024	EUROFINS SAV	EPA 7470	
Fluoride	1.02	mg/L	08/07/2024	GEL	EPA 300.0	
Chloride	1390	mg/L	07/20/2024	GEL	EPA 300.0	
Sulfate	921	mg/L	07/20/2024	GEL	EPA 300.0	
Total Dissolved Solids	5352	mg/L	07/25/2024	KRMATHER	SM 2540C	
Radium 226	1.22	pCi/L	08/14/2024	GEL	EPA 903.1 Mod	
Radium 228	2.25	pCi/L	08/07/2024	GEL	EPA 904.0	
Radium 226/228 Combined Calculation	3.47	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod	
pH	7.34	SU	07/17/2024	ZM/BM		

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date: (()

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03742 Location: GW Well WAP-14 Date: 07/17/2024 Sample Collector: ZM/BM

Loc. Code WAP-14 DUP Time: 10:57

DOI		Time, 10.07		
Result	Units	Test Date	Analyst	Method
18.8	ug/L	07/30/2024	SKJACOBS	EPA 6020B
49.6	ug/L	07/30/2024	SKJACOBS	EPA 6020B
<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
1250	mg/L	07/30/2024	SKJACOBS	EPA 6020B
<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
5.2	ug/L	07/30/2024	SKJACOBS	EPA 6020B
<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
9160	ug/L	07/25/2024	SKJACOBS	EPA 6010D
<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D
<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D
<0.2	ug/L	08/01/2024	EUROFINS SAV	EPA 7470
1.03	mg/L	08/07/2024	GEL	EPA 300.0
1430	mg/L	07/20/2024	GEL	EPA 300.0
938	mg/L	07/20/2024	GEL	EPA 300.0
5390	mg/L	07/25/2024	KRMATHER	SM 2540C
1.28	pCi/L	08/14/2024	GEL	EPA 903.1 Mod
2.56	pCi/L	08/07/2024	GEL	EPA 904.0
3.84	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod
	Result 18.8 49.6 <0.5 1250 <0.5 <0.5 <5.0 <1.0 5.2 <10.0 <1.0 9160 <5.0 <5.0 <5.0 <1.03 1430 938 5390 1.28 2.56	Result Units 18.8 ug/L 49.6 ug/L <0.5	Result Units Test Date 18.8 ug/L 07/30/2024 49.6 ug/L 07/30/2024 <0.5	Result Units Test Date Analyst 18.8 ug/L 07/30/2024 SKJACOBS 49.6 ug/L 07/30/2024 SKJACOBS <0.5

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03743 Location: GW Well WAP-14A Date: 07/17/2024 Sample Collector: ZM/BM

Loc. Code WAP-14A Time: 13:03

Time, 13.03					
Result	Units	Test Date	Analyst	Method	
6.1	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
88.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
839	mg/L	07/30/2024	SKJACOBS	EPA 6020B	
<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
5790	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
50.6	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
<0.2	ug/L	08/08/2024	EUROFINS SAV	EPA 7470	
0.12	mg/L	08/07/2024	GEL	EPA 300.0	
992	mg/L	07/20/2024	GEL	EPA 300.0	
679	mg/L	07/20/2024	GEL	EPA 300.0	
4020	mg/L	07/25/2024	KRMATHER	SM 2540C	
1.26	pCi/L	08/14/2024	GEL	EPA 903.1 Mod	
0.928	pCi/L	08/07/2024	GEL	EPA 904.0	
2.188	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod	
6.92	SU	07/17/2024	ZM/BM		
	6.1 88.5 <0.5 839 <0.5 <0.5 <5.0 <1.0 <10.0 <5.0 <1.0 5790 50.6 <5.0 <0.2 0.12 992 679 4020 1.26 0.928 2.188	6.1 ug/L 88.5 ug/L <0.5 ug/L 839 mg/L <0.5 ug/L <0.5 ug/L <5.0 ug/L <1.0 ug/L <1.0 ug/L <10.0 ug/L <10.0 ug/L <10.0 ug/L <1.0 ug/L 65.0 ug/L 1.0 ug/L 679 ug/L 679 mg/L 4020 mg/L 1.26 pCi/L 0.928 pCi/L 2.188	6.1 ug/L 07/30/2024 88.5 ug/L 07/30/2024 <0.5 ug/L 07/30/2024 839 mg/L 07/30/2024 <0.5 ug/L 07/30/2024 <0.5 ug/L 07/30/2024 <1.0 07/30/2024 <1.0 ug/L 07/30/2024 <5.0 ug/L 07/30/2024 <5.0 ug/L 07/30/2024 <5.0 ug/L 07/30/2024 <1.0 ug/L 07/30/2024 <1.0 ug/L 07/30/2024 <1.0 ug/L 07/25/2024	Result Units Test Date Analyst 6.1 ug/L 07/30/2024 SKJACOBS 88.5 ug/L 07/30/2024 SKJACOBS <0.5	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03744 Location: GW Well WAP-14B Date: 07/17/2024 Sample Collector: ZM/BM

Loc. Code WAP-14B Time: 10:03

20010000 17711 112	111101 10.00					
Analysis	Result	Units	Test Date	Analyst	Method	
Arsenic	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Barium	172	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Beryllium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Calcium	691	mg/L	07/30/2024	SKJACOBS	EPA 6020B	
Cadmium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Cobalt	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Chromium	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Lead	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Selenium	<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Antimony	6.6	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Thallium	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B	
Boron	6390	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
Lithium	18.7	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
Molybdenum	<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D	
Mercury	<0.2	ug/L	08/01/2024	EUROFINS SAV	EPA 7470	
Fluoride	<0.1	mg/L	07/20/2024	GEL	EPA 300.0	
Chloride	773	mg/L	07/20/2024	GEL	EPA 300.0	
Sulfate	658	mg/L	07/20/2024	GEL	EPA 300.0	
Total Dissolved Solids	3236	mg/L	07/25/2024	KRMATHER	SM 2540C	
Radium 226	1.33	pCi/L	08/14/2024	GEL	EPA 903.1 Mod	
Radium 228	1.38	pCi/L	08/07/2024	GEL	EPA 904.0	
Radium 226/228 Combined Calculation	2.71	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod	
pH	6.59	SU	07/17/2024	ZM/BM		

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date: 9/30/24



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03745 Location: GW Well WAP-14C Date: 07/17/2024 Sample Collector: ZM/BM

Loc. Code WAP-14C Time: 12:12

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Barium	89.1	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Calcium	192	mg/L	07/30/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Boron	78.3	ug/L	07/25/2024	SKJACOBS	EPA 6010D
Lithium	15.8	ug/L	07/25/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	08/01/2024	EUROFINS SAV	EPA 7470
Fluoride	0.11	mg/L	08/07/2024	GEL	EPA 300.0
Chloride	278	mg/L	07/20/2024	GEL	EPA 300.0
Sulfate	129	mg/L	07/20/2024	GEL	EPA 300.0
Total Dissolved Solids	1106	mg/L	07/25/2024	KRMATHER	SM 2540C
Radium 226	2.00	pCi/L	08/14/2024	GEL	EPA 903.1 Mod
Radium 228	0.264	pCi/L	08/07/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.264	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod
pH	7.05	SU	07/17/2024	ZM/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03746 Location: GW Well WAP-15 Date: 07/17/2024 Sample Collector: ZM/BM

Loc. Code WAP-15 Time: 14:38

	Time, 14.50									
Analysis	Result	Units	Test Date	Analyst	Method					
Arsenic	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Barium	243	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Beryllium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Calcium	614	mg/L	07/30/2024	SKJACOBS	EPA 6020B					
Cadmium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Cobalt	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Chromium	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Lead	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Antimony	5.4	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Selenium	<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Thallium	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B					
Boron	4510	ug/L	07/25/2024	SKJACOBS	EPA 6010D					
Lithium	76.8	ug/L	07/25/2024	SKJACOBS	EPA 6010D					
Molybdenum	<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D					
Mercury	<0.2	ug/L	08/01/2024	EUROFINS SAV	EPA 7470					
Fluoride	0.50	mg/L	08/07/2024	GEL	EPA 300.0					
Chloride	864	mg/L	07/20/2024	GEL	EPA 300.0					
Sulfate	527	mg/L	07/20/2024	GEL	EPA 300.0					
Total Dissolved Solids	3234	mg/L	07/25/2024	KRMATHER	SM 2540C					
Radium 226	1.47	pCi/L	08/14/2024	GEL	EPA 903.1 Mod					
Radium 228	1.80	pCi/L	08/07/2024	GEL	EPA 904.0					
Radium 226/228 Combined Calculation	3.27	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod					
pH	6.53	SU	07/17/2024	ZM/BM						

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03747 Location: GW Well WAP-16 Date: 07/15/2024 Sample Collector: ZM/BM

Loc. Code WAP-16 Time: 14:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Barium	83.3	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Calcium	215	mg/L	07/24/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/24/2024	SKJACOBS	EPA 6020B
Boron	1760	ug/L	07/23/2024	SKJACOBS	EPA 6010D
Lithium	5.75	ug/L	07/23/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/23/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/22/2024	EUROFINS SAV	EPA 7470
Fluoride	<0.10	mg/L	07/22/2024	LCWILLIA	EPA 300.0
Chloride	236	mg/L	07/22/2024	LCWILLIA	EPA 300.0
Sulfate	289	mg/L	07/22/2024	LCWILLIA	EPA 300.0
Total Dissolved Solids	1192	mg/L	07/18/2024	KRMATHER	SM 2540C
Radium 226	1.59	pCi/L	08/13/2024	GEL	EPA 903.1 Mod
Radium 228	1.62	pCi/L	08/07/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.21	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod
pH	6.77	SU	07/15/2024	ZM/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date:

Analysis Validated:



SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG03764 Location: GW Well WAP-29 Date: 07/17/2024 Sample Collector: ZM/BM

Loc. Code WAP-29 Time: 13:53

200. 0000 11711 20					
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Barium	47.4	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Calcium	605	mg/L	07/30/2024	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Cobalt	5.4	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/30/2024	SKJACOBS	EPA 6020B
Boron	9250	ug/L	07/25/2024	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/25/2024	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	08/01/2024	EUROFINS SAV	EPA 7470
Fluoride	<0.1	mg/L	07/20/2024	GEL	EPA 300.0
Chloride	942	mg/L	07/21/2024	GEL	EPA 300.0
Sulfate	588	mg/L	07/21/2024	GEL	EPA 300.0
Total Dissolved Solids	3348	mg/L	07/25/2024	KRMATHER	SM 2540C
Radium 226	0.962	pCi/L	08/13/2024	GEL	EPA 903.1 Mod
Radium 228	1.90	pCi/L	08/07/2024	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.862	pCi/L	08/19/2024	SJLEVY	EPA 903.1 Mod
pH	5.94	SU	07/17/2024	ZM/BM	

Comments:

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"-Rogers & Callcot, Inc.- Lab ID # 23105001

Validation date: 9

Analysis Validated:





a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407

gel.com

March 06, 2024

Ms. Jeanette Gilmetti Santee Cooper P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical Work Order: 654972

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 09, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Jordan Melton for Julie Robinson Project Manager

Purchase Order: 125915/JM02.08.G01.3/36500

Enclosures



2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 654972 GEL Work Order: 654972

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 6, 2024

(15%-125%)

SOOP00119

90.7

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90605 Sample ID: 654972001

Matrix: GW

Collect Date: 07-FEB-24 10:07
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportio	nal Counting										
GFPC, Ra228, Liquid "A	As Received"										
Radium-228	U	0.936	+/-0.907	1.49	3.00	pCi/L		JE1	02/23/24	1110 2568526	1
Rad Radium-226											
Lucas Cell, Ra226, Liqu	iid "As Recei	ved"									
Radium-226		2.11	+/-0.917	0.840	1.00	pCi/L		LXP1	03/05/24	0913 2571356	2
The following Analytic	al Methods w	ere perfo	ormed:								
Method	Description					F	Analys	st Comment	S		
1	EPA 904.0/SW	846 9320 1	Modified								

2 EPA	903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits

Notes:

Barium-133 Tracer

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GFPC, Ra228, Liquid "As Received"

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 3 of 18 SDG: 654972

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 6, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90606 Sample ID: 654972002

Matrix: GW

Collect Date: 07-FEB-24 10:12
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	5									
GFPC, Ra228, Liquid	"As Received"	'									
Radium-228	U	0.147	+/-0.989	1.81	3.00	pCi/L		JE1	02/23/24	1110 2568526	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ived"									
Radium-226		1.69	+/-0.674	0.577	1.00	pCi/L		LXP1	03/05/24	0913 2571356	2
The following Analyt	ical Methods w	vere perfo	ormed:								
Method	Description						Analy	st Comment	c		

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

85.8 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 4 of 18 SDG: 654972

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 6, 2024

SOOP00119

SOOP001

Project:

Client ID:

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90604 Sample ID: 654972003

Matrix: GW

Collect Date: 07-FEB-24 11:12
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	3									
GFPC, Ra228, Liquid	"As Received"	•									
Radium-228		2.17	+/-0.887	1.13	3.00	pCi/L		JE1	02/23/24	1110 2568526	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ived"									
Radium-226		2.13	+/-0.867	0.754	1.00	pCi/L		LXP1	03/05/24	0913 2571356	2
The following Analytical Methods were performed:											
Method	Description						Analys	st Commen	ts		

Michiga	Description	7 maryst Comments
1	EPA 904.0/SW846 9320 Modified	•
2	EPA 903.1 Modified	

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

92.8 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 5 of 18 SDG: 654972

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Certificate of Analysis

Project:

Client ID:

Report Date: March 6, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90596 Sample ID: 654972004

Matrix: GW

Collect Date: 06-FEB-24 10:25
Receive Date: 09-FEB-24
Collector: Client

1 Counting					Units	PF	Di Allai	st Date	Time Batch	Method
1 Counting										
Received"										
	1.51	+/-0.814	1.16	3.00	pCi/L		JE1	02/23/24	1110 2568526	1
"As Receiv	ed"									
	4.23	+/-1.22	0.752	1.00	pCi/L		LXP1	03/05/24	0913 2571356	2
The following Analytical Methods were performed:										
escription					1	Analys	t Comment	S		
1	Received" "As Receiv	Received" 1.51 "As Received" 4.23 Methods were perfo	Received" 1.51 +/-0.814 "As Received" 4.23 +/-1.22 Methods were performed:	Received" 1.51 +/-0.814 1.16 "As Received" 4.23 +/-1.22 0.752 Methods were performed:	Received" 1.51 +/-0.814 1.16 3.00 "As Received" 4.23 +/-1.22 0.752 1.00 Methods were performed:	Received" 1.51 +/-0.814 1.16 3.00 pCi/L "As Received" 4.23 +/-1.22 0.752 1.00 pCi/L Methods were performed:	Received" 1.51 +/-0.814 1.16 3.00 pCi/L "As Received" 4.23 +/-1.22 0.752 1.00 pCi/L Methods were performed:	Received" 1.51 +/-0.814 1.16 3.00 pCi/L JE1 "As Received" 4.23 +/-1.22 0.752 1.00 pCi/L LXP1 Methods were performed:	Received" 1.51 +/-0.814 1.16 3.00 pCi/L JE1 02/23/24 "As Received" 4.23 +/-1.22 0.752 1.00 pCi/L LXP1 03/05/24 Methods were performed:	Received" 1.51 +/-0.814 1.16 3.00 pCi/L JE1 02/23/24 1110 2568526 "As Received" 4.23 +/-1.22 0.752 1.00 pCi/L LXP1 03/05/24 0913 2571356 Methods were performed:

Memou	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	·
2	EDA 002 1 M- 4'C - 4	

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

92.2 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 6 of 18 SDG: 654972

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Certificate of Analysis

Report Date: March 6, 2024

SOOP00119

SOOP001

Project:

Client ID:

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90597 Sample ID: 654972005

Matrix: GW

Collect Date: 06-FEB-24 11:19
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propo	ortional Counting	5									
GFPC, Ra228, Liqu	id "As Received"	1									
Radium-228		3.16	+/-1.37	2.00	3.00	pCi/L		JE1	02/23/24	1111 2568526	1
Rad Radium-226											
Lucas Cell, Ra226,	Liquid "As Recei	ved"									
Radium-226		4.72	+/-1.18	0.676	1.00	pCi/L		LXP1	03/05/24	0948 2571356	2
The following Anal	lytical Methods w	ere perfo	ormed:								
Method	Description						Analys	st Commen	ts		
_											

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	EPA 903.1 Modified	

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

90.6 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 7 of 18 SDG: 654972

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 6, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90599 Sample ID: 654972006

Matrix: GW

Collect Date: 06-FEB-24 12:45
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportion	onal Counting	;									
GFPC, Ra228, Liquid ".	As Received"										
Radium-228	U	0.0789	+/-1.34	2.47	3.00	pCi/L		JE1	02/23/24	1225 2568526	1
Rad Radium-226											
Lucas Cell, Ra226, Liqu	uid "As Recei	ved"									
Radium-226	\mathbf{U}	0.470	+/-0.485	0.761	1.00	pCi/L		LXP1	03/05/24	0948 2571356	2
The following Analytic	al Methods w	ere perfo	rmed:								

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

88.6 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 8 of 18 SDG: 654972

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 6, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90602 Sample ID: 654972007

Matrix: GW

Collect Date: 06-FEB-24 09:24
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Prop	ortional Counting	5									
GFPC, Ra228, Liqu	id "As Received"	1									
Radium-228	U	-0.0579	+/-0.881	1.66	3.00	pCi/L		JE1	02/23/24	1111 2568526	1
Rad Radium-226											
Lucas Cell, Ra226,	Liquid "As Recei	ved"									
Radium-226		1.30	+/-0.721	0.811	1.00	pCi/L		LXP1	03/05/24	0948 2571356	2
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
				Analys	st Commen	ts					

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	·

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

92.1 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 9 of 18 SDG: 654972

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 6, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90634 Sample ID: 654972008

Matrix: GW

Collect Date: 06-FEB-24 14:12
Receive Date: 09-FEB-24
Collector: Client

Parameter **Oualifier** Result Uncertainty **MDC** RLUnits PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 2.16 +/-0.8841.10 3.00 pCi/L JE1 02/23/24 1111 2568526 1 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 0.0320 +/-0.140 0.374 1.00 pCi/L LXP1 03/05/24 0948 2571356 The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

89.5 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 10 of 18 SDG: 654972

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 6, 2024

SOOP00119

90.3

(15%-125%)

SOOP001

Project:

Client ID:

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90595 Sample ID: 654972009

Matrix: GW

Collect Date: 05-FEB-24 14:35
Receive Date: 09-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Ra228, Liquid	"As Received"	1									
Radium-228	U	0.185	+/-0.587	1.09	3.00	pCi/L		JE1	02/23/24	1111 2568526	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		2.03	+/-0.764	0.653	1.00	pCi/L		LXP1	03/05/24	0948 2571356	2
The following Analyt	tical Methods w	ere perfo	ormed:								
Method				Analys	st Commen	ts					

Surrogate/Tracer Recov	ery Test	Result	Nominal	Recovery%	Acceptable Limits
2	EPA 903.1 Modified				
1	EPA 904.0/SW846 9320 Modified				

Notes:

Barium-133 Tracer

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GFPC, Ra228, Liquid "As Received"

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 11 of 18 SDG: 654972

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 6, 2024

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 654972

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range A	nlst	Date Time
Rad Gas Flow										
Batch 2568526 ———										
QC1205650263 654136001 DUP										
Radium-228	U	0.712		1.52	pCi/L	72.3		(0% - 100%)	JE1	02/23/24 11:11
	Uncertainty	+/-1.28		+/-0.944						
QC1205650264 LCS										
Radium-228	72.0			71.4	pCi/L		99.2	(75%-125%)		02/23/24 11:11
	Uncertainty			+/-3.83						
QC1205650262 MB										
Radium-228			\mathbf{U}	0.536	pCi/L					02/23/24 11:11
	Uncertainty			+/-0.599						
Rad Ra-226										
Batch 2571356 —										
QC1205655691 654972001 DUP					G. 75			(00)		0.
Radium-226	**	2.11		1.74	pCi/L	19.2		(0% - 100%)	LXP1	03/05/24 10:05
	Uncertainty	+/-0.917		+/-0.865						
QC1205655693 LCS										
Radium-226	26.4			31.4	pCi/L		119	(75%-125%)		03/05/24 10:05
	Uncertainty			+/-3.08						
QC1205655690 MB										
Radium-226			U	0.318	pCi/L					03/05/24 10:05
	Uncertainty			+/-0.318						
QC1205655692 654972001 MS										
Radium-226	137	2.11		130	pCi/L		93.5	(75%-125%)		03/05/24 10:05
	Uncertainty	+/-0.917		+/-13.6						

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 12 of 18 SDG: 654972

Page 1 of 2

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 654972

Page 2 of 2

Page 2 of 2

NOM Sample Qual OC Units RPD% REC% Range And Date Time

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

- Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ** Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

- ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
- * Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page 13 of 18 SDG: 654972

Radiochemistry Technical Case Narrative Santee Cooper SDG #: 654972

Product: GFPC, Ra228, Liquid

<u>Analytical Method:</u> EPA 904.0/SW846 9320 Modified <u>Analytical Procedure:</u> GL-RAD-A-063 REV# 5

Analytical Batch: 2568526

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
654972001	AF90605
654972002	AF90606
654972003	AF90604
654972004	AF90596
654972005	AF90597
654972006	AF90599
654972007	AF90602
654972008	AF90634
654972009	AF90595
1205650262	Method Blank (MB)
1205650263	654136001(AF87814) Sample Duplicate (DUP)
1205650264	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Sample 654972003 (AF90604) was non-homogenous matrix. yellow liquid 654972003 (AF90604).

Technical Information

Recounts

Sample 654972006 (AF90599) was recounted due to a suspected false positive. The recount is reported.

<u>Product:</u> Lucas Cell, Ra226, Liquid <u>Analytical Method:</u> EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2571356

Page 14 of 18 SDG: 654972

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
654972001	AF90605
654972002	AF90606
654972003	AF90604
654972004	AF90596
654972005	AF90597
654972006	AF90599
654972007	AF90602
654972008	AF90634
654972009	AF90595
1205655690	Method Blank (MB)
1205655691	654972001(AF90605) Sample Duplicate (DUP)
1205655692	654972001(AF90605) Matrix Spike (MS)
1205655693	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Aliquot Reduced

1205655691 (AF90605DUP), 1205655692 (AF90605MS) and 654972001 (AF90605) Aliquots were reduced due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page 15 of 18 SDG: 654972

Contract Lab Due Date (Lab Only):

Contract Lab Info:

 $\textit{Send report to } \underline{\textit{lcwillia@santeecooper.com}} \& \underline{\textit{sherri.levy@santeecooper.com}} \\$

Chain of Custody



Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Customer Email/Report Recipient: Date Results Neede				eded b	l by: Project/Task/Unit #: Rerun request for an									y flag	ged QC	
LINDA. WILLIA	-MS_@santeed	cooper.com					125	915	MT_L	62.0	8. GU1.3	1_369	500 (Yes	No		
														A	nalysis	Group
Labworks ID # (Internal use only)	Sample Location Description	on/	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see	Metl Repe Misc Any	Combod # orting limes, sample other not	info	KAD 226	RAD 228	
AF90665	WAP-10		2/7/24	1067	WJK	2	P	G	G-W	2				1	1	
06	WAP-10 D	uP		1012	-											
1 04	WAP-9		1	1112	1	1	1	1		1						
AF 90596	WAP-2		2/6/24	1025	MJK											
97	WAP-2R			1119												
1 99	WAP-4			1245	1	Ī	Ī	1		7						
AF90602	WAP-7			6924			Ш									
1 34	WBW-1	ě]	1412	1	Ī		1	1							
AF90595	WAP-1		2/5/24	1435	WJK	1	1	1		1		,]	
Relinquished by:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date		Time	Sampl	e Receiving (Internal P (°C):	Use On	ly)	
Shevy	35594	2/9/24	Dist	D	1		GEL		2/9/2	24	095 ₁	and the state of			-	
Relinquished by:	Employee#	Date	Time	Receiv	ed by:	E	mployee	#	Date		Time	Corre	ct pH: Yes No			
Relinquished by:	Employee#	2-9, 24 Date	1550 (ed by:		mployee		2 /9/2 Date	24	/550 Time	Prese	rvative Lot#:			
	PTALE (all)	\$3.05 E										Date/	Time/Init for preserv	ative:		
	ETALS (all)	Sin Like	rients	MIS	SC.		Servenson.	psur	<u>n</u>		Coal		<u>Flyash</u>		Oil	
	WHEN PERSON NAMED IN COLUMN TWO PERSONS AND ADDRESS.			☐ BTEX ☐ Naphtha	lene		Wallbo	oard sum(a	ıll		Ultimate Moist	ure	☐ Ammonia ☐ LOI		ns. Oil Moist	
□ As □ K	□ Sn	□ TP/	TPO4	□ THM/H/ □ VOC			belo	w)			□ Ash		☐ % Carbon	O C	olor	
□B □Li	Called Baseline	□ NH:	3-IN	□ Oil & Gi	rease		□ Al				□ Sulfur □ BTUs		☐ Mineral	□ Di		Strength
□ Ba □ M	THE PARTY OF THE P			☐ E. Coli ☐ Total Co	liform			tal metal			□ Volatile	Matter	Analysis ☐ Sieve	DI		d Gases
□ Be □ M	图写是 AL 是保持的是主体	□ NO2	2	□ pH □ Dissolve			□ Pui	rity (Ca	SO4)	0	CHN Cher Tests:		☐ % Moisture	□ Use	d Oil	
□ Ca □ M	PARTY MERSTALLER	□ NO:	3	☐ Dissolve	d Fe		□ %	Moistu lfites	re		XRF Scan		NPDES	□ M	lashpoi letals ii	oil
□ Cd □ Na	2000年1月2日1日	□ SO4		☐ Rad 226 ☐ Rad 228			□pH□Ch	lorides		1000000	HGI Fineness		□ Oil & Grease		As,Cd,(lg)	Cr,Ni,Pb
□ Co □ Ni □ Cr □ Pt		MANUAL PROPERTY.	CONTRACTOR OF THE PARTY OF THE	□ PCB			□ Par	ticle Si			Particulate Ma	ntter	□ As □ TSS	□T	x	
□ Cr □ Pt	J LIVI	NOTE:					Sulfur							m 60	FER	

	Laboratories LLC	SAMPLE RECEIPT & REVIEW FORM
	Client: SOO!	SDG/AR/COC/Viork Order: 1054077
	Ranalyad Ry. CLM	Da Received: 2 9124
		· Grata Anniach (s.
		Fedex Express Fedex Ground UPS Field Services Courier Other (50)er 1 - 19° (RCHEM) (50) + 1 - 19°
	Carrier and Tracking Number	Cooler 1-19° (RCHEM) Cooler 3-4°
		Coolers-3. Coolery-00
	Suspected Hazard Information	*If Net Counts > 1000ptm on samples not marked "radiosining", equisant the Radiation Safety Group for farther investigation.
	A)Saipped as a DOT Hazardous?	Hazard Class Shipped: LT UN2910, Is the Radioactive Shipment Survey Compliant? YesNo
	Did the pilent designate the samples are to be readined as radiocative?	COC betting of an expression and a continue state of the continue
	C) Did the RSO classify the samples as radioactive?	Maximum Net Counts Observed.* (Coserved Counts - Area Background Counts): CPMUmR/H- Classified as: Rad 1 Rad 2 Rad 3
1	D) Did the client designate samples are hazardous?	
	E) Did the RSO identify possible bezerds?	it U of D is yes, select Hazards below. PCB's Flaturable Foreign Soil RCRA Aspessos Bandling Other
Ī.	Sample Receipt Criteria 💆 💆	Comments/Qualifiers (Required for Non-Conforming Items)
	Shipping containers received intest and scaled?	Circle Applicable: Seals broken Damaged commiser Leaking commiser Other (describe)
	2 Chain of oustedy documents included with shipment?	Circle Applicable: Client contacted and provided COC COC created upon receipt
	3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	Preservation Method: (Wet Ice) Ice Packs Dry Ice (None) Other: *all temperatures apprendicated in Calsius Temperature Device Serial & 198-23 COOLETS
	Daily check performed and passed on R temperature gun?	Temperature Device Seriai #: IR8-23 Secondary Temperature Device Serial # (Tf Applicable):
	5 Sample containers intact and sealed?	Circle Applicables Social broken Demaged container Leaking container Other (describe).
	6 Samples requiring chemical preservation	Sample D's and Comminers Affected: ### Preservation biddled, Look
		If Yas, are Eurores of Soil Kits present for solids? Yas No NA Gi was take to VOA Entrad
7	Do any samples require Voletile Analysis?	Do liquid VOA visis contain anid preservation? Yes IV No NA (Li unknown, select No) Are liquid VOA visis fiee of headspone? Yes No NA (NA VIA VI
		Sample D's and continers effected:
8	Samples received within holding time?	Till's and tasts affacted:
9	Sample D's on COC match D's on bordes?	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	Circle Applicable: No casa's pocoporainers: No circles on containers—COC missing into Other (describe) Times and different on sample ID's: AF91624-62
11		Circle Applicable: No container gount on CCC Ciber (describe)
.12	Are sample conteiners identifiable as GEL provided by use of GEL labels?	
13	LCOC form is properly signed in	Circle Applicable: Not relinquished Other (describe)
2	arments (Use Continuation Form if needed):	050122 00 00011- 401/BC
		AF91632 compared to the COC.
	* 654978 + 65L	1976
	PM (or PMA) review Initia	ds

GL-CHL-SR-C01. Rev. 7

List of current GEL Certifications as of 06 March 2024

State	Certification		
Alabama	42200		
Alaska	17-018		
Alaska Drinking Water	SC00012		
Arkansas	88-00651		
CLIA	42D0904046		
California	2940		
Colorado	SC00012		
Connecticut	PH-0169		
DoD ELAP/ ISO17025 A2LA	2567.01		
Florida NELAP	E87156		
Foreign Soils Permit	P330-15-00283, P330-15-00253		
Georgia	SC00012		
Georgia SDWA	967		
Hawaii	SC00012		
Idaho	SC00012 SC00012		
Illinois NELAP	200029		
Indiana	C-SC-01		
Kansas NELAP			
	E-10332		
Kentucky SDWA	KY90129		
Kentucky Wastewater	KY90129		
Louisiana Drinking Water	LA024		
Louisiana NELAP	03046 (AI33904)		
Maine	2023019		
Maryland	270		
Massachusetts	M-SC012		
Massachusetts PFAS Approv	Letter		
Michigan	9976		
Mississippi	SC00012		
Nebraska	NE-OS-26-13		
Nevada	SC000122024-05		
New Hampshire NELAP	2054		
New Jersey NELAP	SC002		
New Mexico	SC00012		
New York NELAP	11501		
North Carolina	233		
North Carolina SDWA	45709		
North Dakota	R-158		
Oklahoma	2023-152		
Pennsylvania NELAP	68-00485		
Pucrto Rico	SC00012		
S. Carolina Radiochem	10120002		
Sanitation Districts of L	9255651		
South Carolina Chemistry	10120001		
Tennessee	TN 02934		
Texas NELAP	T104704235-23-21		
Utah NELAP	SC000122023-38		
Vermont	VT87156		
Virginia NELAP	460202		
Washington	C780		
·· asimigron	2.00		





a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407

gel.com

March 19, 2024

Ms. Jeanette Gilmetti Santee Cooper P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical Work Order: 656481

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 23, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The client labels were swapped on the containers. The client was notified and confirmed that the GEL labels were correct656481011(AF90628), 656481012(AF90629).

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

20 colon

Jordan Melton for Julie Robinson Project Manager

Purchase Order: 398684

Enclosures



2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 656481 GEL Work Order: 656481

The Qualifiers in this report are defined as follows:

- A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

	Jordan	Melton		
Reviewed by				

Page 2 of 36 SDG: 656481

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 19, 2024

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90610 Sample ID: 656481001

Matrix: GW

Collect Date: 21-FEB-24 10:15
Receive Date: 23-FEB-24
Collector: Client

Project: SOOP00119 Client ID: SOOP001

Parameter Qualifier Result DL RL Units PF DF Analyst Date Time Batch Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 3 of 36 SDG: 656481

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 19, 2024

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 656481

Parmname NOM Sample Qual QC Units RPD% REC% Range Anlst Date Time

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- N1 See case narrative
- J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

- ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
- * Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page 4 of 36 SDG: 656481

Page 1 of 1

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 19, 2024

1

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90610 Sample ID: 656481001

Matrix: GW

Collect Date: 21-FEB-24 10:15
Receive Date: 23-FEB-24
Collector: Client

Parameter Qualifier Result Uncertainty MDC RL Units PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting

Project:

Client ID:

GFPC, Ra228, Liquid "As Received"

Radium-228

2.17 +/-1.36

2.10

3.00 pCi/L

JE1 03/13/24 1045 2575958

Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226 0.987 +/-0.402 0.302 1.00 pCi/L MJ2 03/17/24 0838 2574135 2

The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

85.6 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 5 of 36 SDG: 656481

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

84.2

(15%-125%)

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90631 Sample ID: 656481002

Matrix: GW

Collect Date: 21-FEB-24 11:03
Receive Date: 23-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting	;									
GFPC, Ra228, Liquid	"As Received"	1									
Radium-228		2.04	+/-1.11	1.64	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		2.88	+/-0.768	0.647	1.00	pCi/L		MJ2	03/17/24	0838 2574135	2
The following Analyt	ical Methods w	vere perfe	ormed:								
Method	Description						Analy	st Commen	ts		
1	EDA 004 0/SW	7946 0220	Modified								

1	EPA 904.0/SW 846 9320 Modified				
2	EPA 903.1 Modified				
Surrogate/Tracer Recove	ery Test	Result	Nominal	Recovery%	Acceptable Limits

Notes:

Barium-133 Tracer

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GFPC, Ra228, Liquid "As Received"

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 6 of 36 SDG: 656481

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90615 Sample ID: 656481003

Matrix: GW

Collect Date: 20-FEB-24 11:13 Receive Date: 23-FEB-24 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting										
GFPC, Ra228, Liquid	l "As Received"										
Radium-228	U	-1.32	+/-0.870	1.89	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Recei	ved"									
Radium-226		1.91	+/-0.631	0.560	1.00	pCi/L		MJ2	03/17/24	0838 2574135	2
The following Analy	tical Methods w	ere perfo	ormed:								
Method	Description					1	Analys	st Comment	S		

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	

2 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%) 88.1

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity **RL**: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 7 of 36 SDG: 656481

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90614 Sample ID: 656481004

Matrix: GW

Collect Date: 20-FEB-24 13:07 Receive Date: 23-FEB-24 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	yst Date	Time Batch	Method
Rad Gas Flow Propo	ortional Counting										
GFPC, Ra228, Liqui	d "As Received"										
Radium-228	U	-2.70	+/-0.807	2.12	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, I	Liquid "As Recei	ved"									
Radium-226		6.88	+/-1.16	0.596	1.00	pCi/L		MJ2	03/17/24	0838 2574135	2
The following Analy	ytical Methods w	ere perfo	ormed:								
Method	Description		Analyst Comments								

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	-
2	EPA 903.1 Modified	

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%) 77.6

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity **RL**: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 8 of 36 SDG: 656481

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Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90617 Sample ID: 656481005

Matrix: GW

Collect Date: 20-FEB-24 09:51
Receive Date: 23-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	ional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228	U	-1.48	+/-0.873	2.00	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Lie	quid "As Recei	ved"									
Radium-226		3.90	+/-0.882	0.387	1.00	pCi/L		MJ2	03/17/24	0838 2574135	2
The following Analytical Methods were performed:											
Method	Description						Analys	st Comment	S		

Memou	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	•
2	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 9 of 36 SDG: 656481

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Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90632 Sample ID: 656481006

Matrix: GW

Collect Date: 20-FEB-24 14:21
Receive Date: 23-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	5									
GFPC, Ra228, Liquid	l "As Received"	•									
Radium-228	U	-3.62	+/-0.859	2.26	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Recei	ived"									
Radium-226	U	0.697	+/-0.497	0.717	1.00	pCi/L		MJ2	03/17/24	0910 2574135	2
The following Analy	tical Methods v	vere perfo	ormed:								
Method	Description						Analy	st Commen	ts		

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

87.2 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 10 of 36 SDG: 656481

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Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90611 Sample ID: 656481007

Matrix: GW

Collect Date: 19-FEB-24 14:15
Receive Date: 23-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228		1.85	+/-1.06	1.54	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		0.552	+/-0.322	0.325	1.00	pCi/L		MJ2	03/17/24	0910 2574135	2
The following Analyt	tical Methods w	ere perfo	ormed:								
Method	Description						Analy	st Commen	ts		

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

72.5 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 11 of 36 SDG: 656481

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Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90612 Sample ID: 656481008

Matrix: GW

Collect Date: 19-FEB-24 14:20 Receive Date: 23-FEB-24 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting										
GFPC, Ra228, Liquid	l "As Received"										
Radium-228	U	1.26	+/-0.899	1.38	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Recei	ved"									
Radium-226		1.04	+/-0.525	0.612	1.00	pCi/L		MJ2	03/17/24	0910 2574135	2
The following Analy	tical Methods w	ere perfo	ormed:								
Method	Description		Analyst Comments								

Michiga	Description	7 maryst Comments
1	EPA 904.0/SW846 9320 Modified	•
2	EPA 903.1 Modified	

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

77.5 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 12 of 36 SDG: 656481

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Report Date: March 19, 2024

SOOP00119

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90625 Sample ID: 656481009

Collect Date: 15-FEB-24 10:38 Receive Date: 23-FEB-24 Collector: Client

Client ID: SOOP001 Matrix: GW

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proporti	onal Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228		1.53	+/-0.843	1.16	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Lic	juid "As Recei	ved"									
Radium-226		1.74	+/-0.545	0.325	1.00	pCi/L		MJ2	03/17/24	0910 2574135	2
The following Analyti	cal Methods w	ere perfo	ormed:								
Method	Description						Analyst	Comment	S		
1	EPA 904.0/SW	7846 93 2 0 1	Modified								
2	EPA 903.1 Mo	dified									
Surrogate/Tracer Reco	very Test				R	esult	Nomina	l Reco	very%	Acceptable L	imits

GFPC, Ra228, Liquid "As Received" Barium-133 Tracer

87.2 (15%-125%)

Project:

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 13 of 36 SDG: 656481

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Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90613 Sample ID: 656481010

Matrix: GW

Collect Date: 15-FEB-24 13:31 Receive Date: 23-FEB-24 Collector: Client

Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analyst Date	Time Batch	Method
nal Counting									
As Received"									
\mathbf{U}	-0.280	+/-0.836	1.66	3.00	pCi/L		JE1 03/13/24	1045 2575958	1
id "As Recei	ved"								
	1.02	+/-0.414	0.311	1.00	pCi/L		MJ2 03/17/24	0910 2574135	2
al Methods w	ere perfo	ormed:							
Description					1	Analys	st Comments		
	nal Counting As Received" U id "As Received" If the second the s	nal Counting As Received" U -0.280 id "As Received" 1.02 al Methods were perfo	nal Counting As Received" U -0.280 +/-0.836 id "As Received" 1.02 +/-0.414 al Methods were performed:	nal Counting As Received" U -0.280 +/-0.836 1.66 id "As Received" 1.02 +/-0.414 0.311 al Methods were performed:	nal Counting As Received" U -0.280 +/-0.836 1.66 3.00 id "As Received" 1.02 +/-0.414 0.311 1.00 nl Methods were performed:	nal Counting As Received" U -0.280 +/-0.836 1.66 3.00 pCi/L id "As Received" 1.02 +/-0.414 0.311 1.00 pCi/L al Methods were performed:	nal Counting As Received" U -0.280 +/-0.836 1.66 3.00 pCi/L id "As Received" 1.02 +/-0.414 0.311 1.00 pCi/L al Methods were performed:	nal Counting As Received" U -0.280 +/-0.836 1.66 3.00 pCi/L JE1 03/13/24 id "As Received" 1.02 +/-0.414 0.311 1.00 pCi/L MJ2 03/17/24 al Methods were performed:	nal Counting As Received" U -0.280 +/-0.836 1.66 3.00 pCi/L JE1 03/13/24 1045 2575958 id "As Received" 1.02 +/-0.414 0.311 1.00 pCi/L MJ2 03/17/24 0910 2574135 al Methods were performed:

EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" 81.5 (15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity **RL**: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 14 of 36 SDG: 656481

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Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90628 Sample ID: 656481011 Matrix: GW

Collect Date: 19-FEB-24 09:44 Receive Date: 23-FEB-24 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	;									
GFPC, Ra228, Liquid	d "As Received"										
Radium-228	U	-5.48	+/-0.846	2.60	3.00	pCi/L		JE1	03/13/24	1045 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, L	iquid "As Recei	ved"									
Radium-226		0.853	+/-0.429	0.500	1.00	pCi/L		MJ2	03/17/24	0910 2574135	2
The following Analy	tical Methods w	ere perfe	ormed:								
Method	Description						Analys	st Commen	ts		

Method	Description	Analyst Com
1	EPA 904.0/SW846 9320 Modified	
2	EPA 903.1 Modified	

EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 15 of 36 SDG: 656481

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Certificate of Analysis

Project:

Client ID:

Analyst Comments

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90629 Sample ID: 656481012

Matrix: GW

Collect Date: 19-FEB-24 09:49
Receive Date: 23-FEB-24
Collector: Client

Parameter **Oualifier** Result Uncertainty **MDC** RLUnits PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 0.0686 +/-0.839 1.57 3.00 pCi/L JE1 03/13/24 1046 2575958 1 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received" Radium-226 +/-0.503 0.711 1.00 pCi/L MJ2 03/17/24 0910 2574135

The following Analytical Methods were performed:

Description

1 EPA 904.0/SW846 9320 Modified
2 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

83 (15%-125%)

Notes:

Method

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 16 of 36 SDG: 656481

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Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti ABS Lab Analytical Project:

Client Sample ID: AF90627 Sample ID: 656481013

Matrix: GW

Collect Date: 19-FEB-24 11:05 Receive Date: 23-FEB-24 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	5									
GFPC, Ra228, Liquid	"As Received"	'									
Radium-228	U	-0.281	+/-0.669	1.40	3.00	pCi/L		JE1	03/13/24	1046 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ived"									
Radium-226		1.72	+/-0.651	0.712	1.00	pCi/L		MJ2	03/17/24	0910 2574135	2
The following Analys	tical Methods v	vere perfe	ormed:								
Method	Description						Analy	st Commen	ts		
1	EPA 904 0/SV	V846 9320	Modified								

2 EPA	903.1 Modified				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 17 of 36 SDG: 656481

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Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

03/17/24 0943 2574135

SOOP00119

SOOP001

MJ2

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90626 Sample ID: 656481014

Matrix: GW

Collect Date: 19-FEB-24 12:49
Receive Date: 23-FEB-24
Collector: Client

Parameter **Oualifier** Result Uncertainty **MDC** RLUnits PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 -0.867 +/-0.665 1.56 3.00 pCi/L JE1 03/13/24 1046 2575958 1 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"

1.00

pCi/L

Radium-226 0.563 +/-0.362 The following Analytical Methods were performed:

MethodDescriptionAnalyst Comments1EPA 904.0/SW846 9320 Modified

EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits

Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

73.8 (15%-125%)

0.392

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 18 of 36 SDG: 656481

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Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90630 Sample ID: 656481015

Matrix: GW

Collect Date: 15-FEB-24 11:25
Receive Date: 23-FEB-24
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Anal	yst Date	Time Batch	Method
Rad Gas Flow Propor	tional Counting	;									
GFPC, Ra228, Liquid	l "As Received"										
Radium-228	U	-2.47	+/-0.972	2.22	3.00	pCi/L		JE1	03/13/24	1046 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	iquid "As Recei	ved"									
Radium-226		1.74	+/-0.638	0.703	1.00	pCi/L		MJ2	03/17/24	0943 2574135	2
The following Analy	tical Methods w	ere perfe	ormed:								
Method	Description					1	Analy	st Commen	ts		
1	EDA 004 0/CV	7046 0220	M - 1:C: - 1								

1	EPA 904.0/SW846 9320 Modified	•	
2	EPA 903.1 Modified		

Surrogate/Tracer RecoveryTestResultNominalRecovery%Acceptable LimitsBarium-133 TracerGFPC, Ra228, Liquid "As Received"86.4(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 19 of 36 SDG: 656481

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Project:

Client ID:

Report Date: March 19, 2024

03/17/24 0943 2574135

SOOP00119

SOOP001

MJ2

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90623 Sample ID: 656481016

Matrix: GW

Collect Date: 15-FEB-24 12:20
Receive Date: 23-FEB-24
Collector: Client

Parameter **Oualifier** Result Uncertainty **MDC** RLUnits PF DF Analyst Date Time Batch Method Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received" Radium-228 1.67 +/-0.985 1.46 3.00 pCi/L JE1 03/13/24 1046 2575958 1 Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"

1.00

pCi/L

Radium-226 0.581 +/-0.355 The following Analytical Methods were performed:

 Method
 Description
 Analyst Comments

 1
 EPA 904.0/SW846 9320 Modified

 2
 EPA 903.1 Modified

Surrogate/Tracer Recovery Test Result Nominal Recovery% Acceptable Limits
Barium-133 Tracer GFPC, Ra228, Liquid "As Received"

87.5 (15%-125%)

0.371

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
DL: Detection Limit PF: Prep Factor
MDA: Minimum Detectable Activity RL: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 20 of 36 SDG: 656481

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Project:

Client ID:

Report Date: March 19, 2024

SOOP00119

SOOP001

Company: Santee Cooper Address: P.O. Box 2946101

OCO3

Moncks Corner, South Carolina 29461

Contact: Ms. Jeanette Gilmetti Project: ABS Lab Analytical

Client Sample ID: AF90633 Sample ID: 656481017

Matrix: GW

Collect Date: 15-FEB-24 14:12 Receive Date: 23-FEB-24 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF Analy	st Date	Time Batch	Method
Rad Gas Flow Proport	tional Counting										
GFPC, Ra228, Liquid	"As Received"										
Radium-228	U	0.882	+/-0.750	1.19	3.00	pCi/L		JE1	03/13/24	1046 2575958	1
Rad Radium-226											
Lucas Cell, Ra226, Li	quid "As Recei	ved"									
Radium-226		0.472	+/-0.308	0.377	1.00	pCi/L		MJ2	03/17/24	0943 2574135	2
The following Analyt	tical Methods w	ere perfo	ormed:								
Method	Description					1	Analys	st Comments	S		

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	

2 EPA 903.1 Modified

Recovery% Surrogate/Tracer Recovery Test Result Nominal Acceptable Limits Barium-133 Tracer GFPC, Ra228, Liquid "As Received" (15%-125%) 83.8

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level DL: Detection Limit PF: Prep Factor MDA: Minimum Detectable Activity **RL**: Reporting Limit

MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Page 21 of 36 SDG: 656481

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 19, 2024

Santee Cooper P.O. Box 2946101

OCO3

Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 656481

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range A	nlst	Date Time
Rad Gas Flow										
Batch 2575958 ———										
QC1205664335 656481001 DUP										
Radium-228		2.17	U	1.13	pCi/L	62.7		(0% - 100%)	JE1	03/13/24 10:46
	Uncertainty	+/-1.36		+/-0.775						
QC1205664336 LCS										
Radium-228	73.4			59.4	pCi/L		80.9	(75%-125%)		03/13/24 10:46
	Uncertainty			+/-3.74						
QC1205664334 MB										
Radium-228			U	0.782	pCi/L					03/13/24 10:46
	Uncertainty			+/-0.753						
Rad Ra-226										
Batch 2574135										
QC1205661277 656481001 DUP										
Radium-226		0.987		1.33	pCi/L	29.9		(0% - 100%)	MJ2	03/17/24 09:43
	Uncertainty	+/-0.402		+/-0.520						
QC1205661279 LCS										
Radium-226	26.9			20.9	pCi/L		77.5	(75%-125%)		03/17/24 09:43
	Uncertainty			+/-1.99						
QC1205661276 MB										
Radium-226			U	0.000	pCi/L					03/17/24 09:43
	Uncertainty			+/-0.264						
QC1205661278 656481001 MS										
Radium-226	131	0.987		104	pCi/L		78.8	(75%-125%)		03/17/24 09:43
	Uncertainty	+/-0.402		+/-9.80						

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J Value is estimated

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

H Analytical holding time was exceeded

< Result is less than value reported

Page 22 of 36 SDG: 656481

Page 1 of 2

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 656481

Parmname

NOM Sample Qual QC Units RPD% REC% Range AnIst Date Time

>	Result is	orester	than va	ilue re	ported
	ixesuit is	greater	tiiaii ve	nuc ic	porteur

- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ** Analyte is a Tracer compound
- M REMP Result > MDC/CL and < RDL
- J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

- ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
- * Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page 23 of 36 SDG: 656481

Technical Case Narrative Santee Cooper SDG #: 656481

Radiochemistry

Product: GFPC, Ra228, Liquid

<u>Analytical Method:</u> EPA 904.0/SW846 9320 Modified <u>Analytical Procedure:</u> GL-RAD-A-063 REV# 5

Analytical Batch: 2575958

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
656481001	AF90610
656481002	AF90631
656481003	AF90615
656481004	AF90614
656481005	AF90617
656481006	AF90632
656481007	AF90611
656481008	AF90612
656481009	AF90625
656481010	AF90613
656481011	AF90628
656481012	AF90629
656481013	AF90627
656481014	AF90626
656481015	AF90630
656481016	AF90623
656481017	AF90633
1205664334	Method Blank (MB)
1205664335	656481001(AF90610) Sample Duplicate (DUP)
1205664336	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Samples 1205664335 (AF90610DUP), 656481001 (AF90610) and 656481004 (AF90614) were non-homogenous matrix. slightly yellow 1205664335 (AF90610DUP), 656481001 (AF90610) and 656481004 (AF90614).

Technical Information

Negative > 3 sigma TPU

Sample results were more negative than the three sigma TPU. The background control charts were examined and the

Page 24 of 36 SDG: 656481

detectors were determined to be fully functional.

Sample	Analyte	Value
656481004 (AF90614)	Radium-228	Negative Result > 3 sigma value
656481005 (AF90617)	Radium-228	Negative Result > 3 sigma value
656481006 (AF90632)	Radium-228	Negative Result > 3 sigma value
656481011 (AF90628)	Radium-228	Negative Result > 3 sigma value
656481015 (AF90630)	Radium-228	Negative Result > 3 sigma value

Product: Lucas Cell, Ra226, Liquid Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2574135

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
656481001	AF90610
656481002	AF90631
656481003	AF90615
656481004	AF90614
656481005	AF90617
656481006	AF90632
656481007	AF90611
656481008	AF90612
656481009	AF90625
656481010	AF90613
656481011	AF90628
656481012	AF90629
656481013	AF90627
656481014	AF90626
656481015	AF90630
656481016	AF90623
656481017	AF90633
1205661276	Method Blank (MB)
1205661277	656481001(AF90610) Sample Duplicate (DUP)
1205661278	656481001(AF90610) Matrix Spike (MS)
1205661279	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Page 25 of 36 SDG: 656481

Additional Comments

The matrix spike, 1205661278 (AF90610MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page 26 of 36 SDG: 656481

Chain of Custody



Santee Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Custo	Customer Email/Report Recipient:			Date R	esults Ne	Project/Task/Unit #: Ren							Rerun request for any flagged QC						
LIND	LINDA - WILLIAMS @santeecooper.com _								125915 / JM02.09.601.1/ 36500						No				
																A	nalysi	is Group	
A THE CASE OF SECTION	orks ID # nal use		mple Locatio scription	on/	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see	Repo Misc	Comment nod # orting limit . sample info other notes	S	RAD 226	PAD 228		
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1	31	W	AP-28		1	1103			1	1						1	1		
AF9	0615	W:	AP-14C		2/20/24	แเร													
1	14	W	AP-14B		1	1307													
AF9	0617	W	AP-16			<i>ল</i> 51													
1	32	W	AP-28R		1	1421											-		
	11	W	AP-14		2/19/24	1415													
	12	W	AP-14 DI	uP	1	1420													
	25	W	AP-23		2/15/24	1038													
	13	W	AP-14A		1	1331	1	-	1	<u> </u>	1	_				1	1		
Refi	nquished b	r:	Employee#	Date	Time	Receiv	red by:		Employee	e#	Date		Time		eiving (Internal):				
6	M		36851	2/23/24	0931	MA	1		GEL	- 2	423/	24	0931	A STATE OF THE STA			•		
Reli	nquished by	*	Employee#	Date	Time	Recen	ed by:	E	Employee	#	Date		Time	Correct pH					
Reli	nquished by	<i>r</i> :	Employee#	7-12-14 Date	1550 Finte	Z-Z Receiv	red by:		S E L		(23 Date	[27	L&SC/ Time	Preservative Lot#:					
												04107 (STATE)		Date/Time/	Init for preserv	ative:			
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□ As	0)	(□ Sn	□ TP	TPO4	□ THM/H			belo	(wi			☐ Ash	CALLED AND STREET, SALES AND ADDRESS.	LOI % Carbon	0	Color		
□В	□ B □ Li □ Sr □ NH □ Ba □ Mg □ Ti □ Cl □ Be □ Mn □ Tl □ NO □ Ca □ Mo □ V □ Br □ NO □ NO □ NO		3-N	DVOC			O A				□ Sulfur		Mineral	DI		y ic Strength			
□ Ba			The second					otal meta			☐ BTUs ☐ Volatile	Matter 🗆 S	Analysis Sieve		FT Dissol	ved Gases			
J. Padrigues			2 □ pH				□ Pt	rity (Ca	SO4)	0	☐ CHN Other Tests:		% Moisture	□ Us	ed O	il			
			3	☐ Dissolved As ☐ Dissolved Fe				Moistur lifites	e		XRF Scan		NPDES	☐ Flashpoint ☐ Metals in oil					
□ Cd	to see all		□ Zn	□ SO	4	☐ Rad 226 ☐ Rad 228			□ pł				HGI Fineness		Oil & Grease		(As,C Hg)	d,Cr,Ni,Pb	
□ Co	The state of the s		□ Hg			□ PCB			☐ Chlorides ☐ Particle Size				☐ Particulate Matter ☐ As ☐ TSS			D TX GOFER			
□ Cr		D	□ CrVI						□ Sulfur							п 60	JFER		

Chain of Custody



Santec Cooper One Riverwood Drive Moncks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Labourks ID # Sample Location / Description Description / Description Description / Description Description / Description Description / De	Customer Email/Report Recipient:			Date R	Date Results Needed by:					Project/Task/Unit #: Ro						Rerun request for any flagged QC			
Labovick ID # Comments Comm	LINDA. WILLIA	@santeeco	oper.com					125915 J JM02.09. GØI. 1 36500							Yes	No			
Relinquished by: Employee Date Time Received by: Employee Date Time Correct pit: Yes No Preservative Language Date Time Received by: Employee Date Time Correct pit: Yes No Preservative Language Date Time Language Date Time Correct pit: Yes No Preservative Language Date Time Correct pit: Yes No Preservative Language Date Time Language Date Time Correct pit: Yes No Preservative Language Date Time Language Date																A	nalysis	Group	
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Relinquished by: Employee# Date Time Received by: Employee # Date Time Preservative Lot#: METALS (all)	mh				. 126	0		7.1			4 ,		TEMP	(°C):				_	
Rélinquished by: Date Time Tim	Relinquished by				Receive	d by:	En	nployee #	_				Correc	t pH: Yes.	No				
Date/Time/Init for preservative:	sil	SEL d	- 23,24/	550	-	1		GEL 2/23/27 USSO Preservative L		ative Lot#:									
METALS (all)	Kelinquished by:	Employee#	'Date'/	Time	Receive	d by:	En	ployee #		Date		Time							
□ Ag □ Cu □ Sb □ TOC □ BTEX □ Se □ DOC □ TP/TPO4 □ THM/HAA □ Sr □ TP/TPO4 □ THM/HAA □ Sr □ TOC □ Structure □ Stru	ПΜ	ETALS (all)				Name of the			TACKED AND				Date/Ti	me/Init for pre	eservat	ive:			
□ Al □ Fe □ Se □ TOC □ BTEX □ Naphthalene □ Aphthalene □ Spsum(all below) □ Ash □ K □ Sr □ TP/TPO4 □ THM/HAA □ NH3-N □ Oil & Grease □ TOC □ Sulfur □ Mineral □ Mineral □ Mineral □ Soluble Metals □ Total Moisture □ Soluble Metals □ Soluble Metals □ Total Moisture □ Soluble Metals □ Solu	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 1	THE RESERVE OF THE PARTY OF THE PARTY.	Nutri	ents	MIS	<u>C.</u>		Gy	osum	1		Coal		Flyash			Oil		
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□ B □ Li □ Sr □ NH3-N □ Oil & Grease □ TOC □ Total metals □ Soluble Metals □ Dissolved As □ Dissolved As □ Dissolved Fe □ Dissolved Fe □ Rad 226 □ PNi □ PN	□ As □ K	□ Sn	A TO RECOVER TO SHEEP VALUE	PO4	THM/HA		1						ture						
□ Ba □ Mg □ Ti □ Cl □ Total Coliform □ Purity (CaSO4) □ CHN □ Soluble Metals □ Soluble Metals □ Soluble Metals □ CHN □ Dissolved As □ Dissolved As □ Dissolved Fe □ Rad 226 □ PH □ Dissolved Fe □ Rad 228 □ Chlorides □ Fineness □ Oil & Grease □ Oil & Grease □ Chlorides □ Fineness □ Oil & Grease □ Oil &	□ B □ Li	i 🛮 Sr				ase								☐ Acidity					
□ Be □ Mn □ Tl □ NO2 □ pH □ Dissolved As □ Dissolved As □ Dissolved Fe □ Sulfites □ Sulfites □ HG □ HG □ SO4 □ Rad 228 □ Chlorides □ Fineness □ Oil & Grease □ Dissolved Fe □ Rad 228 □ Chlorides □ Fineness □ Oil & Grease □ Hg □ Oil & Grease □ Dissolved Fe □ Rad 228 □ Chlorides □ Fineness □ Oil & Grease □ Dissolved Gases □ Dissolved Gases □ Soluble Metals □ Chlorides □ Soluble Metals □ Dissolved Gases □ Soluble Metals □ Chlorides □ Soluble Metals □	□ Ba □ M	lg □ Ti			E. Coli			☐ Total metals		etals DBTUs			Matter	Analysis	S	□ IF			
□ Ca □ Mo □ V □ Dissolved As □ Sulfites □ Sulfites □ Sulfites □ PH □ Fineness □ Oil & Grease □ Hg □ Chlorides □ Fineness □ Other Tests: □ XRF Scan □ Metals in oil (As, Cd, Cr, Ni, Pl Hg) □ Chlorides □ Fineness □ Oil & Grease □ Hg □ Oil & Grease □ Hg □ Oil & Grease □ Chlorides □ Fineness □ Other Tests: □ XRF Scan □ Metals in oil (As, Cd, Cr, Ni, Pl Hg) □ Oil & Grease □ Oil & Oil	□ Be □ M	n 🗆 Tl	□ NO2	C	рH							□ CHN	Watter					iases	
□ Cd □ Na □ Zn □ SO4 □ Rad 226 □ pH □ HGI □ HGI □ Rad 228 □ Chlorides □ Fineness □ Oil & Grease □ Hg)								□%M	loisture						1	□ Fla	shpoint		
The least the le	□ Cd □ Na	a 🗆 Zn			Rad 226			□pH			□H	GI		United Street, Street, Street, Square, Sans					
PCB Particle Size Particulate Matter	□ Co □ Ni	The state of the s						□ Chlo	rides cle Size				atter	□ As					
□ Cr □ Pb □ CrVI □ TSS □ GOFER	□ Cr □ Pt	CrVI		Dr. D			D							□ TSS					



SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order:								
Received By: QG	Date Received: 2 23 24								
Carrier and Tracking Number	FedEx Express FedEx Ground UPS Field Services Courier Other								
	n/a								
Suspected Hazard Information	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.								
A)Shipped as a DOT Hazardous?	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes No								
B) Did the client designate the samples are to be received as radioactive?	COC notation or radioactive stickers on containers equal client designation.								
C) Did the RSO classify the samples as radioactive?	Maximum Net Counts Observed ³⁰ (Observed Counts - Area Background Counts):CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3								
D) Did the client designate samples are hazardous?	COC notation or hazard labels on containers equal client designation.								
E) Did the RSO identify possible hazards?	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:								
Sample Receipt Criteria	Č Comments/Qualifiers (Required for Non-Conforming Items)								
1 Shipping containers received intact and sealed?	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)								
2 Chain of custody documents included with shipment?	Circle Applicable: Client contacted and provided COC COC created upon receipt								
3 Samples requiring cold preservation within $(0 \le 6 \text{ deg. C})$?*	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2								
4 Daily check performed and passed on IR temperature gun?	Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable):								
5 Sample containers intact and sealed?	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)								
6 Samples requiring chemical preservation at proper pH?	Sample ID's and Containers Affected: If Preservation added, Lot#:								
	If Yex, are Encores or Soil Kits present for solids? YesNoNA(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? YesNoNA(If unknown, select No)								
7 Do any samples require Volatile Analysis?	Do liquid VOA vials contain acid preservation? Yes No NA(If unknown, select No) Are liquid VOA vials free of headspace? Yes No NA Sample ID's and containers affected:								
8 Samples received within holding time?	ID's and tests affected:								
9 Sample ID's on COC match ID's on	ID's and containers affected:								
bottles? Date & time on COC match date & time	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)								
on bottles?	Circle Applicable: No container count on COC Other (describe)								
11 Number of containers received match number indicated on COC?	. The contraint count of coc other (designation)								
Are sample containers identifiable as GEL provided by use of GEL labels?	Circle Applicable: Not relinquished Other (describe)								
13 COC form is properly signed in relinquished/received sections? Comments (Use Continuation Form if needed):	Choic Applicable: 190(reiniquished Other (describe)								
For samples AF ?	0429 and Afgale 28, the client								
label and GEL	label and GEL label don't match. The WAP-24 is								
for samples Afgoli29 and Afgoli28, the client label and GEL label don't match. The WAP-24 is labeled as dup with client label and vice versa.									
PM (or PMA) review	Initials Date 2/24 24 Page Lof								

Page 29 of 36 SDG: 656481

Max Gloth

From: Jessica Ward

Sent: Monday, February 26, 2024 12:30 PM

To: Sherri Levy Cc: Team Robinson

Subject: Re: Question about container labels for samples for Ra226/Ra228 delivered Friday 02/23

Sherri,

Thank you for confirming I have labeled as requested.

Thank you, Jessica Ward **Project Manager Assistant**



2040 Savage Road, Charleston, SC 29407

Office Direct: 843.556.8171 ext. 4523 | Office Main: 843.556.8171 | Fax: 843.766.1178







Email: Jessica.Ward@gel.com

From: Sherri Levy <Sherri.Levy@santeecooper.com>

Sent: Monday, February 26, 2024 12:21 PM To: Jessica Ward <Jessica.Ward@gel.com> Cc: Team Robinson < Team. Robinson@gel.com>

Subject: Re: Question about container labels for samples for Ra226/Ra228 delivered Friday 02/23

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Please follow the GEL labeled sample (handwritten info). The labels are actually swapped. Please let me know if you need further clarification. Sorry about that and thanks for catching it.

Warm Regards,

Sherri J. Levy

Laboratory Specialist III **Environmental Resources ☎**843.761.8000 ext. 5709

fighter significant strain significant sig



From: Jessica Ward <Jessica.Ward@gel.com> Sent: Monday, February 26, 2024 12:13 PM

To: Sherri Levy <Sherri.Levy@santeecooper.com>

Cc: Team Robinson < Team. Robinson@gel.com>

Subject: [EXTERNAL SENDER] Re: Question about container labels for samples for Ra226/Ra228 delivered Friday 02/23

Sherri,

I just wanted to follow up on the email sent Saturday in case it was lost in the Monday shuffle. Can you confirm how we should label the containers fro WAP-26/WAP-26 DUP, by following the GEL container label or the affixed client label. Pictures are on the email in this chain.

Thank you,
Jessica Ward
Project Manager Assistant



2040 Savage Road, Charleston, SC 29407

Office Direct: 843.556.8171 ext. 4523 | Office Main: 843.556.8171 | Fax: 843.766.1178







Email: Jessica.Ward@gel.com

From: Jessica Ward < Jessica. Ward@gel.com > Sent: Saturday, February 24, 2024 12:23 PM

To: Brown, Sherri <sherri.brown@santeecooper.com> **Cc:** Team Robinson <Team.Robinson@gel.com>

Subject: Question about container labels for samples for Ra226/Ra228 delivered Friday 02/23

Sherri,

Attached are photos of the containers received for Ra226/228 analysis brought by courier on Friday 02/23. The containers for Sample ID AF90628 WAP-26 & AF90629 WAP-26 DUP have the labels that are switched on the containers (there is a DUP label on the non-DUP) for example. The receiving team wanted to ensure we labeled these correctly, can you please let me know should we label the containers based off of your labels affixed or the handwritten labels that GEL supplied on the containers for identifying the correct container for the sample IDs?

Thank you, Jessica Ward Project Manager Assistant



2040 Savage Road, Charleston, SC 29407

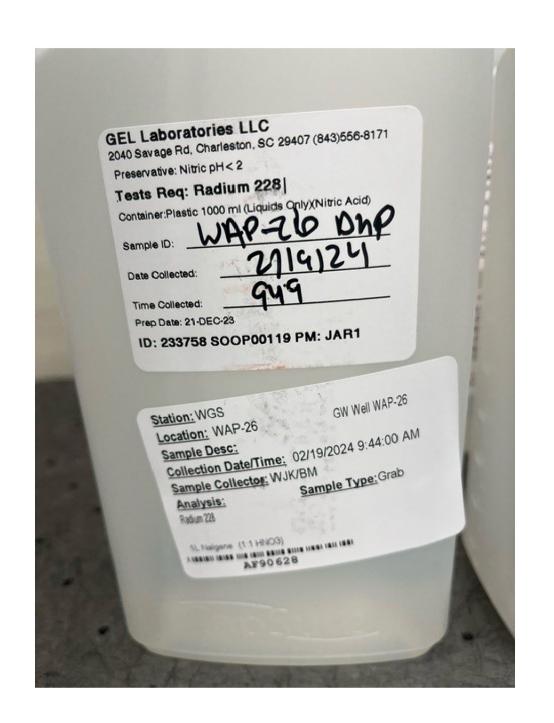
Office Direct: 843.556.8171 ext. 4523 | Office Main: 843.556.8171 | Fax: 843.766.1178

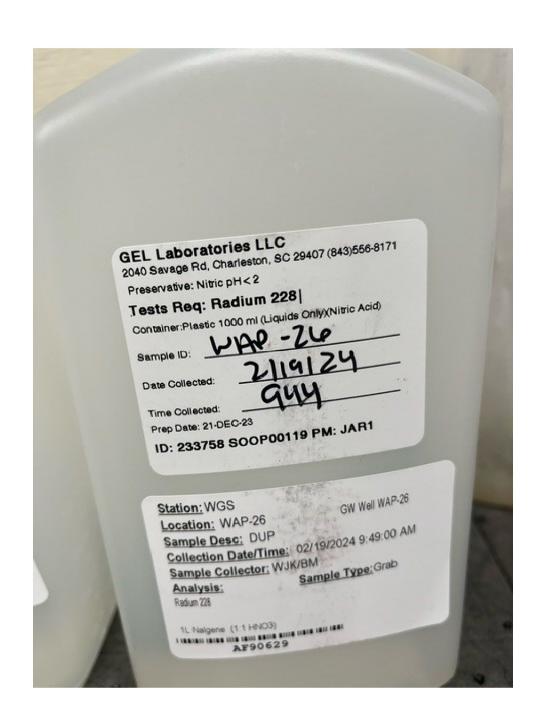


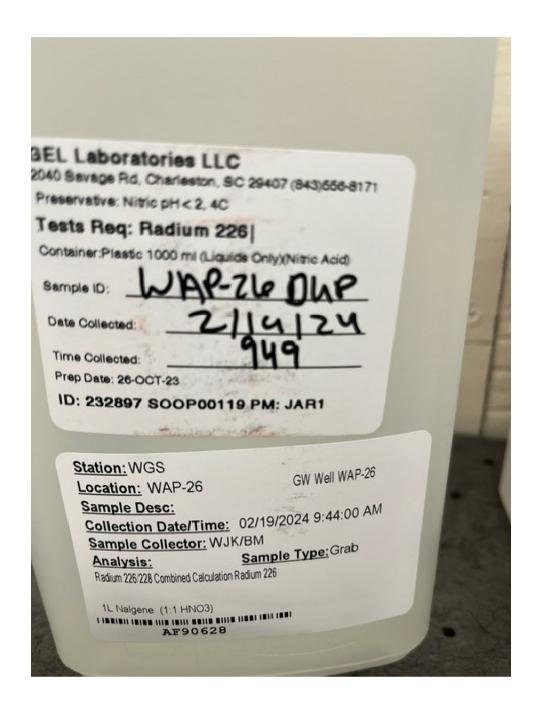


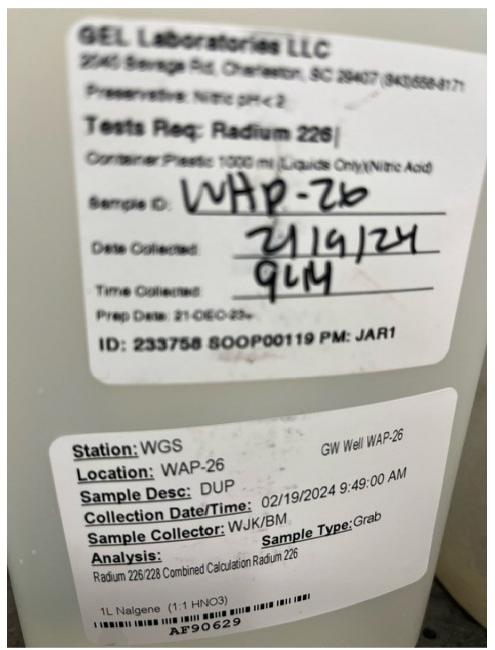


Email: Jessica.Ward@gel.com









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List of current GEL Certifications as of 19 March 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012 SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	
	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
	1

ANALYTICAL REPORT

PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 2/22/2024 1:44:35 PM

JOB DESCRIPTION

125915/JM02.08.G01.3/36500

JOB NUMBER

680-246795-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated 2/22/2024 1:44:35 PM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Method Summary	6
Definitions	7
Detection Summary	8
Client Sample Results	9
QC Sample Results	16
QC Association	17
Chronicle	18
Chain of Custody	20
Receipt Checklists	21
Certification Summary	22

4

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8

9

10

12

13

Case Narrative

Client: South Carolina Public Service Authority

Project: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1 Eurofins Savannah

Job Narrative 680-246795-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/15/2024 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.8°C.

Metals

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

Eurofins Savannah

Page 4 of 22 2/22/2024

2

Job ID: 680-246795-1

3

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7

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12

Sample Summary

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246795-1	AF90598	GW	02/08/24 14:39	02/15/24 10:30
680-246795-2	AF90605	GW	02/07/24 10:07	02/15/24 10:30
680-246795-3	AF90606	GW	02/07/24 10:12	02/15/24 10:30
680-246795-4	AF90604	GW	02/07/24 11:12	02/15/24 10:30
680-246795-5	AF90596	GW	02/06/24 10:25	02/15/24 10:30
680-246795-6	AF90597	GW	02/06/24 11:19	02/15/24 10:30
680-246795-7	AF90599	GW	02/06/24 12:45	02/15/24 10:30

Method Summary

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Definitions/Glossary

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Qualifiers

B 4	_	4_	1-
IVI	е	ta	IS

CNF

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

DER Duplicate Error Ratio (normalized absolute difference)

Contains No Free Liquid

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Detection Summary

Project/Site: 125915/JM02.08.G01.3/36500	000 IB. 000 240100 T
Client Sample ID: AF90598	Lab Sample ID: 680-246795-1
No Detections.	
Client Sample ID: AF90605	Lab Sample ID: 680-246795-2
No Detections.	
Client Sample ID: AF90606	Lab Sample ID: 680-246795-3
No Detections.	
Client Sample ID: AF90604	Lab Sample ID: 680-246795-4
No Detections.	
Client Sample ID: AF90596	Lab Sample ID: 680-246795-5
No Detections.	
Client Sample ID: AF90597	Lab Sample ID: 680-246795-6
No Detections.	
Client Sample ID: AF90599	Lab Sample ID: 680-246795-7
No Detections.	

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority

Eurofins Savannah

Job ID: 680-246795-1

Page 8 of 22

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Client Sample ID: AF90598 Lab Sample ID: 680-246795-1 Date Collected: 02/08/24 14:39

Matrix: GW

Date Received: 02/15/24 10:30

Method: SW846 7470A - Mercury (C	CVAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/20/24 10:58	02/20/24 16:32	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Client Sample ID: AF90605 Lab Sample ID: 680-246795-2 Date Collected: 02/07/24 10:07

Matrix: GW

Date Received: 02/15/24 10:30

Method: SW846 7470A - Mercury (CVAA)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Mercury	0.200	U	0.200		ug/L		02/20/24 10:58	02/20/24 16:35	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Lab Sample ID: 680-246795-3 **Client Sample ID: AF90606**

Date Collected: 02/07/24 10:12 Date Received: 02/15/24 10:30

Mercury

Matrix: GW

02/20/24 16:37

02/20/24 10:58

Method: SW846 7470A - Mercury (CVAA) RL Dil Fac Result Qualifier MDL Unit Prepared Analyzed 0.200

ug/L

0.200 U

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Client Sample ID: AF90604 Lab Sample ID: 680-246795-4

Matrix: GW

Date Collected: 02/07/24 11:12 Date Received: 02/15/24 10:30

Method:	SW846	7470A	- Mercury	(CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/20/24 10:58	02/20/24 16:40	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Client Sample ID: AF90596 Lab Sample ID: 680-246795-5 Date Collected: 02/06/24 10:25

Date Received: 02/15/24 10:30

Matrix: GW

Method: SW846 7470A - Mercury (CVAA)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Mercury	0.200	U	0.200		ug/L		02/20/24 10:58	02/20/24 16:24	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Lab Sample ID: 680-246795-6

Matrix: GW

Client Sample ID: AF90597 Date Collected: 02/06/24 11:19

Date Received: 02/15/24 10:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ua/L		02/20/24 10:58	02/20/24 16:51	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Lab Sample ID: 680-246795-7

Client Sample ID: AF90599 Date Collected: 02/06/24 12:45 Date Received: 02/15/24 10:30

Matrix: GW

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ua/L		02/20/24 10:58	02/20/24 16:53	1

QC Sample Results

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Prep Type: Total/NA **Prep Batch: 823551**

Prep Type: Total/NA

Prep Batch: 823551

Prep Type: Total/NA

Prep Batch: 823551

Prep Type: Total/NA **Prep Batch: 823551**

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-823551/1-A

Matrix: Water

Analysis Batch: 823745

MB MB

Analyte

Result Qualifier

Sample Sample

0.200 U

Result Qualifier

0.200 U 0.200

Spike

Added

2.50

Spike

Added

1.00

MDL Unit RL

LCS LCS

MS MS

Result Qualifier

2.542

0.9942

Result Qualifier

ug/L

Unit

ug/L

Unit

ug/L

Prepared 02/20/24 10:58

D

%Rec

%Rec

102

Client Sample ID: Lab Control Sample

%Rec

Limits

80 _ 120

%Rec

Limits

80 _ 120

Client Sample ID: Matrix Spike Duplicate

%Rec

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Dil Fac Analyzed 02/20/24 15:49

Lab Sample ID: LCS 680-823551/2-A

Matrix: Water

Mercury

Analysis Batch: 823745

Analyte Mercury

Lab Sample ID: 400-251111-H-1-C MS

Matrix: Water

Analysis Batch: 823745

Analyte

Mercury

Lab Sample ID: 400-251111-H-1-D MSD

Matrix: Water

Mercury

Analysis Batch: 823745

Analyte

Sample Sample Spike Result Qualifier Added 0.200 U

MSD MSD Result Qualifier 1.00 0.9929

Unit ug/L

%Rec 99

RPD Limits 80 - 120 0

RPD

Limit

QC Association Summary

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.08.G01.3/36500 Job ID: 680-246795-1

Metals

Prep Batch: 823551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-246795-1	AF90598	Total/NA	GW	7470A	
680-246795-2	AF90605	Total/NA	GW	7470A	
680-246795-3	AF90606	Total/NA	GW	7470A	
680-246795-4	AF90604	Total/NA	GW	7470A	
680-246795-5	AF90596	Total/NA	GW	7470A	
680-246795-6	AF90597	Total/NA	GW	7470A	
680-246795-7	AF90599	Total/NA	GW	7470A	
MB 680-823551/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823551/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-251111-H-1-C MS	Matrix Spike	Total/NA	Water	7470A	
400-251111-H-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 823745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246795-1	AF90598	Total/NA	GW	7470A	823551
680-246795-2	AF90605	Total/NA	GW	7470A	823551
680-246795-3	AF90606	Total/NA	GW	7470A	823551
680-246795-4	AF90604	Total/NA	GW	7470A	823551
680-246795-5	AF90596	Total/NA	GW	7470A	823551
680-246795-6	AF90597	Total/NA	GW	7470A	823551
680-246795-7	AF90599	Total/NA	GW	7470A	823551
MB 680-823551/1-A	Method Blank	Total/NA	Water	7470A	823551
LCS 680-823551/2-A	Lab Control Sample	Total/NA	Water	7470A	823551
400-251111-H-1-C MS	Matrix Spike	Total/NA	Water	7470A	823551
400-251111-H-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	823551

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Job ID: 680-246795-1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF90598 Lab Sample ID: 680-246795-1 Date Collected: 02/08/24 14:39

Matrix: GW

Date Received: 02/15/24 10:30

Batch Batch Dilution Batch **Prepared** Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 7470A 823551 DW 02/20/24 10:58 Prep **EET SAV** Total/NA 823745 DW 02/20/24 16:32 Analysis 7470A 1 **EET SAV**

Client Sample ID: AF90605 Lab Sample ID: 680-246795-2

Date Collected: 02/07/24 10:07 Matrix: GW

Date Received: 02/15/24 10:30

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	7470A			823551	DW	EET SAV	02/20/24 10:58	
Total/NA	Analysis	7470A		1	823745	DW	EET SAV	02/20/24 16:35	

Client Sample ID: AF90606 Lab Sample ID: 680-246795-3

Date Collected: 02/07/24 10:12 Matrix: GW

Date Received: 02/15/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			823551	DW	EET SAV	02/20/24 10:58
Total/NA	Analysis	7470A		1	823745	DW	EET SAV	02/20/24 16:37

Client Sample ID: AF90604 Lab Sample ID: 680-246795-4 Date Collected: 02/07/24 11:12 **Matrix: GW**

Date Received: 02/15/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			823551	DW	EET SAV	02/20/24 10:58
Total/NA	Analysis	7470A		1	823745	DW	EET SAV	02/20/24 16:40

Client Sample ID: AF90596 Lab Sample ID: 680-246795-5

Date Collected: 02/06/24 10:25 Matrix: GW

Date Received: 02/15/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			823551	DW	EET SAV	02/20/24 10:58
Total/NA	Analysis	7470A		1	823745	DW	EET SAV	02/20/24 16:24

Client Sample ID: AF90597 Lab Sample ID: 680-246795-6

Date Collected: 02/06/24 11:19 Matrix: GW

Date Received: 02/15/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			823551	DW	EET SAV	02/20/24 10:58
Total/NA	Analysis	7470A		1	823745	DW	EET SAV	02/20/24 16:51

Eurofins Savannah

Page 18 of 22

2/22/2024

Lab Chronicle

Client: South Carolina Public Service Authority Job ID: 680-246795-1

Project/Site: 125915/JM02.08.G01.3/36500

Lab Sample ID: 680-246795-7 **Client Sample ID: AF90599**

Matrix: GW

Date Collected: 02/06/24 12:45 Date Received: 02/15/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			823551	DW	EET SAV	02/20/24 10:58
Total/NA	Analysis	7470A		1	823745	DW	EET SAV	02/20/24 16:53

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 2 / 24 Send report to |cwillia@santeecooper.com & sherri.levv@santeecooper.com

Chain of Custody



Santee Cooper One Riverwood Drive Moneks Corner, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Rerun request for any flagged QC **Customer Email/Report Recipient: Date Results Needed by:** Project/Task/Unit #: LINDA.MILIAMS @santeecooper.com 125915 / JM 02.08. GØ1.3 / 36500 (Yes) No Analysis Group Comments Labworks ID# Sample Location/ Bottle type: (Glass-G/Plastic-P) Matrix(see below Collection Time (Internal use Description Collection Date Method # Collecto Total # of contain Preservative (s below) Reporting limit only) Grab (G) or Composite (C) Misc. sample info Any other notes 市 WJK 2/8/24 WAP -3 G 2 AF90598 GW 7470 RL=0.2 Mg/L X 1439 2/7/24 WAP-10 AF90605 1067 WAP-10 DUP 06 1012 04 WAP-9 11/2 WJK 2/6/24 WAP-2 1025 AF70596 WAP-2R 1119 77 1245 99 WKP-4 680-246795 Chain of Custody Sample Receiving (Internal Use Only) Received by: Employee # Date Time. Relinquished by: Employee# Date Time TEMP (°C):_ Initial: Slevy 35594 2/14/24 1000 Correct pH: Yes No Date Time Relinguished by: Employee# Date Time Received by: Employee # Preservative Lot#: Margo Received by: Employee# Date Time Employee # Date Time Relinquished by: Date/Time/init for preservative: ☐ METALS (all) **Nutrients** MISC. Gypsum Coal Flyash Oil O Cu D Sb □ Ag O TOC □ Wallboard Trans. Oll Qual. **DBTEX** □ Ultimate ☐ Ammonia ПFe □ Se DAI □ Naphthalene II DOC Gypsum(all ☐ % Moisture D LOI THM/HAA OK below) □ As □ Sn □ TP/TPO4 □ Ash □ % Carbon Acidly □ VOC D AIM □ NH3-N □ Sulfur □ Mineral □В **DLi** □ Sr □ Oil & Grease DITOC D BTUs Analysis IIT □ E. Coli □ Ti □ Ba □ Mg D Volatile Matter ☐ Sieve ☐ Total Coliform C Soluble Metals Used Oll □ Mn DTI II NO2 DCHN ☐ % Moisture □ Be □рН ☐ Purity (CaSO4)
☐ % Moisture O Br ☐ Dissolved As Other Tests: Flashpoint OV □ Ca □Мо Metals in oll □ Dissolved Fe ☐ XRF Scan **B** NO3 □ Sulfites **NPDES** (An, Md, Mr, Ni.Pb □ Cd □ Na O Zn ☐ Rad 226 □pH D HGI □ SO4 □ Oil & Grease ☐ Rad 228 ☐ Fineness D Ni O Hg □Со □ PCB ☐ Particulate Matter DAS DISS □ CrVI □ Cr □Pb

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-246795-1

Login Number: 246795 List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Creator: Munro, Caroline		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Accreditation/Certification Summary

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-246795-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Linda Williams
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Generated 3/3/2024 10:38:40 AM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

680-247155-1

Eurofins Savannah 5102 LaRoche Avenue Savannah GA 31404



Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated 3/3/2024 10:38:40 AM

Authorized for release by Jerry Lanier, Project Manager I <u>Jerry.Lanier@et.eurofinsus.com</u> (912)250-0281 Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Laboratory Job ID: 680-247155-1

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Sample Summary	5
Method Summary	6
Definitions	7
Detection Summary	8
Client Sample Results	9
	21
QC Association	22
Chronicle	23
Chain of Custody	25
Receipt Checklists	27
Certification Summary	28

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Case Narrative

Client: South Carolina Public Service Authority

Project: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1 Eurofins Savannah

Job Narrative 680-247155-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/26/2024 10:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.0°C.

Metals

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

Eurofins Savannah

Job ID: 680-247155-1

Page 4 of 28 3/3/2024

Sample Summary

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247155-1	AF90610	Water	02/21/24 10:15	02/26/24 10:39
680-247155-2	AF90631	Water	02/21/24 11:03	02/26/24 10:39
680-247155-3	AF90615	Water	02/20/24 11:13	02/26/24 10:39
680-247155-4	AF90614	Water	02/20/24 13:07	02/26/24 10:39
680-247155-5	AF90617	Water	02/20/24 09:51	02/26/24 10:39
680-247155-6	AF90632	Water	02/20/24 14:21	02/26/24 10:39
680-247155-7	AF90611	Water	02/19/24 14:45	02/26/24 10:39
680-247155-8	AF90612	Water	02/19/24 14:20	02/26/24 10:39
680-247155-9	AF90628	Water	02/19/24 09:44	02/26/24 10:39
680-247155-10	AF90629 Dup	Water	02/19/24 09:49	02/26/24 10:39
680-247155-11	AF90627	Water	02/19/24 11:05	02/26/24 10:39
680-247155-12	AF90626	Water	02/19/24 12:49	02/26/24 10:39

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Method Summary

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Definitions/Glossary

Client: South Carolina Public Service Authority Job ID: 680-247155-1 Project/Site: 125915/JM02.09.G01.1/36500

Qualifiers

Metals	M	eta	Is
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Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit Minimum Level (Dioxin) ML

MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive

QC **Quality Control** Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Page 7 of 28

Detection Summary

Project/Site: 125915/JM02.09.G01.1/36500	300 10. 000-247 135-1
Client Sample ID: AF90610	Lab Sample ID: 680-247155-1
No Detections.	
Client Sample ID: AF90631	Lab Sample ID: 680-247155-2
No Detections.	
Client Sample ID: AF90615	Lab Sample ID: 680-247155-3
No Detections.	
Client Sample ID: AF90614	Lab Sample ID: 680-247155-4
No Detections.	
Client Sample ID: AF90617	Lab Sample ID: 680-247155-5
No Detections.	
Client Sample ID: AF90632	Lab Sample ID: 680-247155-6
No Detections.	
Client Sample ID: AF90611	Lab Sample ID: 680-247155-7
No Detections.	
Client Sample ID: AF90612	Lab Sample ID: 680-247155-8
No Detections.	
Client Sample ID: AF90628	Lab Sample ID: 680-247155-9
No Detections.	
Client Sample ID: AF90629 Dup	Lab Sample ID: 680-247155-10
No Detections.	
Client Sample ID: AF90627	Lab Sample ID: 680-247155-11
No Detections.	
Client Sample ID: AF90626	Lab Sample ID: 680-247155-12

This Detection Summary does not include radiochemical test results.

No Detections.

Client: South Carolina Public Service Authority

Eurofins Savannah

Job ID: 680-247155-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Client Sample ID: AF90610 Lab Sample ID: 680-247155-1

Matrix: Water

Date Collected: 02/21/24 10:15 Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (C	CVAA)								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200 [1	0.200		ua/l		02/28/24 14:33	02/28/24 19:30	

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Client: South Carolina Public Service Authority

Job ID: 680-247155-1

Project/Site: 125915/JM02.09.G01.1/36500

Lab Sample ID: 680-247155-2

Matrix: Water

Client Sample ID: AF90631
Date Collected: 02/21/24 11:03
Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/28/24 14:33	02/28/24 19:20	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-3

Date Collected: 02/20/24 11:13 Date Received: 02/26/24 10:39

Client Sample ID: AF90615

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/28/24 14:33	02/28/24 19:37	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-4

Date Collected: 02/20/24 13:07 Date Received: 02/26/24 10:39

Client Sample ID: AF90614

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ua/L		02/28/24 14:33	02/28/24 19:22	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-5 **Client Sample ID: AF90617** Date Collected: 02/20/24 09:51

Matrix: Water

Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (CVAA)

RL Dil Fac Result Qualifier MDL Unit Prepared Analyzed

Mercury 0.200 U 0.200 ug/L 02/28/24 14:33 02/28/24 19:10

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-6

Matrix: Water

Client Sample ID: AF90632 Date Collected: 02/20/24 14:21

Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ua/L		02/28/24 14:33	02/28/24 19:14	1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-7 Client Sample ID: AF90611 Date Collected: 02/19/24 14:45

Matrix: Water

Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200 U	0.200	ug/L		02/28/24 14:33	02/28/24 19:12	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Client Sample ID: AF90612 Lab Sample ID: 680-247155-8 Date Collected: 02/19/24 14:20

Matrix: Water

Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/28/24 14:33	02/28/24 19:35	1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-9

Date Collected: 02/19/24 09:44 Date Received: 02/26/24 10:39

Client Sample ID: AF90628

Matrix: Water

_____ Method: SW846 7470A - Mercury (CVAA)

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Mercury
 0.200
 U
 0.200
 ug/L
 02/28/24 14:33
 02/28/24 19:18
 1

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Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-10 Client Sample ID: AF90629 Dup Date Collected: 02/19/24 09:49

Matrix: Water

Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (CVAA) Dil Fac Result Qualifier RLMDL Unit Prepared Analyzed Mercury 0.200 U 0.200 ug/L 02/28/24 14:33 02/28/24 19:32

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Client Sample ID: AF90627

Lab Sample ID: 680-247155-11

Date Collected: 02/19/24 11:05 Date Received: 02/26/24 10:39

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

RL Dil Fac Result Qualifier MDL Unit Prepared Analyzed Mercury 0.200 U 0.200 ug/L 02/28/24 14:33 02/28/24 19:24

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Lab Sample ID: 680-247155-12 **Client Sample ID: AF90626** Date Collected: 02/19/24 12:49

Matrix: Water

Date Received: 02/26/24 10:39

Method: SW846 7470A - Mercury (C	VAA)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/28/24 14:33	02/28/24 19:16	1

QC Sample Results

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-825019/1-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 825097 MB MB

Prep Type: Total/NA

Prep Batch: 825019

MDL Unit Dil Fac Analyte Result Qualifier RL Prepared Analyzed Mercury 0.200 U 0.200 ug/L 02/28/24 14:33 02/28/24 18:41

Lab Sample ID: LCS 680-825019/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 825097

Prep Batch: 825019

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Mercury 2.50 2.199 ug/L 88 80 _ 120

Lab Sample ID: 680-247070-C-7-F MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 825097 MS MS

Prep Batch: 825019 Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.200 U F1 1.00 Mercury 1.944 F1 ug/L 194 80 _ 120

Lab Sample ID: 680-247070-C-7-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA Analysis Batch: 825097

Prep Batch: 825019

MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier RPD Limit Unit %Rec Limits 0.200 UF1 1.00 1.991 F1 80 - 120 Mercury ug/L 199 2 20

QC Association Summary

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Metals

Prep Batch: 825019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247155-1	AF90610	Total/NA	Water	7470A	
680-247155-2	AF90631	Total/NA	Water	7470A	
680-247155-3	AF90615	Total/NA	Water	7470A	
680-247155-4	AF90614	Total/NA	Water	7470A	
680-247155-5	AF90617	Total/NA	Water	7470A	
680-247155-6	AF90632	Total/NA	Water	7470A	
680-247155-7	AF90611	Total/NA	Water	7470A	
680-247155-8	AF90612	Total/NA	Water	7470A	
680-247155-9	AF90628	Total/NA	Water	7470A	
680-247155-10	AF90629 Dup	Total/NA	Water	7470A	
680-247155-11	AF90627	Total/NA	Water	7470A	
680-247155-12	AF90626	Total/NA	Water	7470A	
MB 680-825019/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-825019/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-247070-C-7-F MS	Matrix Spike	Total/NA	Water	7470A	
680-247070-C-7-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 825097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247155-1	AF90610	Total/NA	Water	7470A	825019
680-247155-2	AF90631	Total/NA	Water	7470A	825019
680-247155-3	AF90615	Total/NA	Water	7470A	825019
680-247155-4	AF90614	Total/NA	Water	7470A	825019
680-247155-5	AF90617	Total/NA	Water	7470A	825019
680-247155-6	AF90632	Total/NA	Water	7470A	825019
680-247155-7	AF90611	Total/NA	Water	7470A	825019
680-247155-8	AF90612	Total/NA	Water	7470A	825019
680-247155-9	AF90628	Total/NA	Water	7470A	825019
680-247155-10	AF90629 Dup	Total/NA	Water	7470A	825019
680-247155-11	AF90627	Total/NA	Water	7470A	825019
680-247155-12	AF90626	Total/NA	Water	7470A	825019
MB 680-825019/1-A	Method Blank	Total/NA	Water	7470A	825019
LCS 680-825019/2-A	Lab Control Sample	Total/NA	Water	7470A	825019
680-247070-C-7-F MS	Matrix Spike	Total/NA	Water	7470A	825019
680-247070-C-7-G MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	825019

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Job ID: 680-247155-1

Client: South Carolina Public Service Authority Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF90610 Lab Sample ID: 680-247155-1

Matrix: Water

Date Collected: 02/21/24 10:15 Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:30

Client Sample ID: AF90631 Lab Sample ID: 680-247155-2

Date Collected: 02/21/24 11:03 Matrix: Water

Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:20

Client Sample ID: AF90615 Lab Sample ID: 680-247155-3

Date Collected: 02/20/24 11:13 **Matrix: Water** Date Received: 02/26/24 10:39

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run Factor Number Analyst Lab or Analyzed Total/NA 7470A 825019 RS **EET SAV** 02/28/24 14:33 Prep Total/NA 7470A 02/28/24 19:37 Analysis 825097 BJB **EET SAV** 1

Client Sample ID: AF90614 Lab Sample ID: 680-247155-4

Date Collected: 02/20/24 13:07 **Matrix: Water**

Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:22

Client Sample ID: AF90617 Lab Sample ID: 680-247155-5

Date Collected: 02/20/24 09:51 **Matrix: Water**

Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:10

Client Sample ID: AF90632 Lab Sample ID: 680-247155-6

Date Collected: 02/20/24 14:21 **Matrix: Water**

Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:14

Eurofins Savannah

3/3/2024

Page 23 of 28

Job ID: 680-247155-1

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Client Sample ID: AF90611 Lab Sample ID: 680-247155-7

Matrix: Water

Date Collected: 02/19/24 14:45 Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:12

Client Sample ID: AF90612 Lab Sample ID: 680-247155-8

Date Collected: 02/19/24 14:20 Matrix: Water

Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:35

Client Sample ID: AF90628 Lab Sample ID: 680-247155-9

Date Collected: 02/19/24 09:44 **Matrix: Water**

Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:18

Client Sample ID: AF90629 Dup Lab Sample ID: 680-247155-10

Date Collected: 02/19/24 09:49 Date Received: 02/26/24 10:39

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:32

Client Sample ID: AF90627 Lab Sample ID: 680-247155-11

Date Collected: 02/19/24 11:05 **Matrix: Water** Date Received: 02/26/24 10:39

Batch Batch Dilution Batch Prepared Method **Prep Type** Factor or Analyzed Type Run **Number Analyst** Lab Total/NA Prep 7470A 825019 RS **EET SAV** 02/28/24 14:33 Total/NA 7470A 825097 BJB EET SAV 02/28/24 19:24

1 Client Sample ID: AF90626 Lab Sample ID: 680-247155-12

Date Collected: 02/19/24 12:49 **Matrix: Water**

Date Received: 02/26/24 10:39

Analysis

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	7470A			825019	RS	EET SAV	02/28/24 14:33
Total/NA	Analysis	7470A		1	825097	BJB	EET SAV	02/28/24 19:16

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Page 24 of 28

Matrix: Water

Chain of Custody

santee cooper

Santee Cooper One Riverwood Drive Moneks Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LINDA . WILLIAMS @santeecooper.com 125915 / JM02.09.601.1 / 36500 (Yes No **Analysis Group** Labworks ID# Sample Location/ Comments Preservative (see below) Matrix(see below) Collection Date Collection Time (Glass Method # (Internal use Description Sample Collector Total # of contain only) Grab (G) or Composite (C) Reporting limit Bottle type: (G/Plastic-P) Misc. sample info Any other notes WOK 2 X 2/21/24 l 6 P GW AF90610 WAP-13 1015 BM 7470 RL= 0.2 49/L WAP -28 31 1103 680-247155 WAP-14C 2/20/24 1113 AF906 15 WAP-14B 1307 14 Chain of AF90617 WAP-16 0951 32 Custody WAP-28R 1421 2/19/24 AF906 11 WAP-14 1415 1 12 WAP-14-DUP 1420 Sample Receiving (Internal Use Only) Relinquished by: Employee# Time Time TEMP (°C):_ Initial: Spodes Shevy 2/26/24 0806 COURIER 2/26/24 0806 35694 Correct pH: Yes Relinquished by: Employee# Date Time Received by: Employee # Date Time Preservative Lot#: 1039 Ettodge 2/26/24 Relinquished by: Employee# Date Received by: Employee # Date Time Date/Time/Init for preservative: ☐ METALS (all) **Nutrients** MISC. Oil Gypsum Coal **Flyash** □ Ag □ Cu □ Sb BTEX Trum, Oil Qual. □ TOC Wallboard □ Ultimate ☐ Ammonia O Al □ Fe ☐ Se □ Naphthalene %Moisture Gypsum(all D DOC □ % Moisture □ LOI □ THM/HAA Color □ As DK □ Sn below) □ TP/TPO4 [] Ash ☐ % Carbon IT VOC. O AIM Acidin O Li NH3-N ☐ Sulfur ☐ Mineral DB □ Sr ☐ Oil & Grease □ TOC BTUs Analysis □ E. Coli □ Ba □Mg O Ti ☐ Total metals ■ Cl □ Volatile Matter ☐ Sieve Disselved Gases ☐ Total Coliform Soluble Metals □ Be □ Mn ПП □ NO2 CHN ☐ % Moisture Used Oil □pH □ Purity (CaSO4) □ Br □ Dissolved As Other Tests: Flashpoint ☐ % Moisture □ Ca □Мо DV □ NO3 Dissolved Fe ☐ XRF Scan Metals in oil **NPDES** (As,Cd,Cr,Ni,Pb □ Cd □ Na □ Zn □ Rad 226 O HGI □ pH □ SO4 □ Oil & Grease Hg) ☐ Rad 228 ☐ Fineness Chlorides □Hg □ Co □ Ni DAS □ PCB ☐ Particulate Matter Particle Size ■ TSS GOFER □ Cr □ Pb □ CrVI

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HC1 5=Na2S2O3 6-Other (Specify)

Chain of Custody



Santee Cooper One Riverwood Drive Moncks Comer, SC 29461 Phone: (843)761-8000 Ext. 5148 Fax: (843)761-4175

Customer Email/Report Recipient: Date Results Needed by: Project/Task/Unit #: Rerun request for any flagged QC LINDA-WILLIAMS 125915 / JM02.09.681.1 / 36500 Yes @santeecooper.com No **Analysis Group** Labworks ID# Sample Location/ Comments Collection Time Matrix(see below) Collection Date Total # of containers Glass Preservative (see below) (Internal use Description Method # Sample Collecto only) Grab (G) or Composite (C) Reporting limit Bottle type: (G/Plastic-P) Misc. sample info Any other notes WJK WA-P- 26 2 AF906 28 GW × 2/19/24 G 0944 7470 RL= 0.2 ug/L BM 0949 WAP-26 DUP 29 27 WAP-25 1105 1249 26 WAP - 24 Sample Receiving (Internal Use Only) Relinquished by: Employee# Employee# Time TEMP (°C):__ Initial: oda 0806 Sleves 35974 2/26/24 COURIER 2/26/24 0866 Correct pH: Yes No Relinquished by: Employee# Date Time Received by: Employee # Date Time Preservative Lot#: 1039 2/26/24 EHODGE Employee # Relinquished by: Employee# Date Time Time Received by: Date/Time/Init for preservative: ☐ METALS (all) Nutrients MISC. Gypsum Coal Oil Flyash □ Ag □ Cu □ Sb BTEX DTOC Wallboard Trans. Oil Qual. □ Ultimate ☐ Ammonia □ Al O Fe □ Se DOC □ Naphthalene Gypsum(all ☐ % Moisture %Moisture □ LOI D As OK O Sn C TP/TPO4 □ THM/HAA below) □ Asb ☐ % Carbon □ VOC MA E □ NH3-N □ Sulfur DB □ Li □ Sr ☐ Mineral □ Oil & Grease TITOC OF D BTUs Analysis □ E. Coli □ Ti □ Ba □ Mg Total metals ■ Cl □ Volatile Matter ☐ Sieve ☐ Total Coliform ☐ Soluble Metals □ Be □ Mn O TI □ NO2 □pH O CHN □ % Moisture Used Oil ☐ Purity (CaSO4) □ Br ☐ Dissolved As Other Tests: OV □ Ca □Мо ☐ % Moisture D NO3 □ Dissolved Fe □ XRF Scan **NPDES** □ Cd □ Na □ Zn ☐ Rad 226 HGI □ SO4 □ pH □ Oil & Grease ☐ Rad 228 □ Chlorides ☐ Fineness □ Hg □ Co □Ni O As □ PCB ☐ Particulate Matter Particle Size □ TSS GOFER □ Cr □ Pb □ CrVI □ Sulfur

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na₂S₂O₃ 6-Other (Specify)

3

4

5

8

10

12

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-247155-1

Login Number: 247155 List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

oreator. Common, Corey in		
Question	Answer Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Accreditation/Certification Summary

Client: South Carolina Public Service Authority

Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-247155-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24

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13





Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:			7. PERMIT NUMBER:		
Name:					
(last)	(firs	st)	8. USE:		
Address:			☐ Residential ☐ Public Supply ☐ Process		
City: State:	Zip:		☐ Irrigation ☐ Air Conditioning ☐ Emergency		
21.7.			☐ Test Well		
Telephone: Work:	Home:		9. WELL DEPTH (completed) Date Started: 2-13-24		
2. LOCATION OF WELL: CO	OUNTY: Geor	getown	ft. Date Completed: 2-13-24		
Name: Winyah Generating Stat	tion		10. CASING: ☑ Threaded ☐ Welded		
Street Address: 661 Steam Plan	t Dr.		Diam.: 2 Height: Above/Selow		
City: Georgetown	Zip: 29440		Type: 🛛 PVC 🗌 Galvanized Surface ft.		
			Steel Other Weight — Ib./ft.		
Latitude: Longitude	:		0 in. to 10 other weight 10./ht. Drive Shoe? ☐ Yes ☒ No		
3			in. to ft. depth		
	BLIC SYSTE	M NUMBER:	11. SCREEN: Type: PVC Diam.: 2"		
7	WAP-15R		Slot/Gauge: Length:		
4. ABANDONMENT: ☐ Yes 🗵	No		Set Between: 10 ft. and 20 ft. NOTE: MULTIPLE SCREENS		
Give Details Below			ft. andft. USE SECOND SHEET		
Grouted Depth: from f	t. to	ft.	Sieve Analysis Yes (please enclose) No		
	*Thickness		12. STATIC WATER LEVEL ft. below land surface after 24 hours		
Formation Description	of	Bottom of	and a substitution of the		
	Stratum	Stratum	13. PUMPING LEVEL Below Land Surface ft. after hrs. Pumping G.P.M.		
ORANGE SAND	2.0	2.0	Pumping Test: Yes (please enclose) X No		
			Yield:		
TAN CLAY	1.0	3.0	14. WATER QUALITY		
CDEV CLAVEY CAND	2.0	F 0	14. WATER QUALITY Chemical Analysis ☐ Yes ☒No Bacterial Analysis ☐ Yes ☒ No		
GREY CLAYEY SAND	2.0	5.0	Please enclose lab results.		
GRAY/WHITE SAND	5.0	10.0	15. ARTIFICIAL FILTER (filter pack) Yes □ No Installed from 8		
			Installed from 8 ft. to 20 ft. Effective size # 2 Uniformity Coefficient		
WHITE SAND	10.0	20.0			
			16. WELL GROUTED? ☑ Yes ☐ No ☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other		
			Depth: From 0 ft. to 6 ft.		
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction Type		
			Well Disinfected ☐ Yes ☒ No Type: Amount:		
			18. PUMP: Date installed: Not installed ☑ Mfr. Name: Model No.:		
			Mfr. Name: Model No.: H.P. Volts Length of drop pipe ft. Capacity gpm		
			TYPE: Submersible Jet (shallow) Turbine		
			☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal		
			19. WELL DRILLER: Brian Ewing CERT. NO.: 1947		
			Address: (Print) Level: A B C D (circle one)		
			SAEDACCO		
			9088 Northfield Drive Fort Mill, SC 29707		
*Indicate Water Bearing Zones			Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181		
			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under		
(Use a 2nd sheet if needed)			my direction and this report is true to the best of my knowledge and belief.		
5. REMARKS:					
BENTONITE SEAL 6 TO 8'			Brian Ewing		
			Signed: Date: 2/15/2024		
			Well Driller		
6. TYPE: ☐ Mud Rotary ☐ Jetted ☒ Bored			If D Level Driller, provide supervising driller's name:		
☐ Dug ☐ Air Rotary ☐ Driven			If D Level Driller, provide supervising driller's name:		
☐ Cable tool ☐ Other			RICH LEMIRE		



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:	7. PERMIT NUMBER:
Name:	
(last) (first) Address:	8. USE:
Address.	☐ Residential ☐ Public Supply ☐ Process
City: State: Zip:	☐ Irrigation ☐ Air Conditioning ☐ Emergency
500200€** 1 10 10 10 10 10 10 10 10 10 10 10 10 1	☐ Test Well
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 2-13-24
2. LOCATION OF WELL: COUNTY: Georgetown	ft. Date Completed: 2-13-24
Name: Winyah Generating Station	10. CASING: ☐ Threaded ☐ Welded
Street Address: 661 Steam Plant Dr.	Diam.: Height: Above/Gelow
City: Georgetown Zip: 29440	Type: □ PVC □ Galvanized Surface
400.400.000	in. to — ft. depth Drive Shoe? ☐ Yes ☒ No
Latitude: Longitude:	in. toft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN:
WAP-15	Type: Diam.:
4. ABANDONMENT: ☑ Yes □ No	Slot/Gauge: Length:
Give Details Below	Set Between: ft. NOTE: MULTIPLE SCREENS
Grouted Depth: from 0 ft. to 20 ft.	ft. USE SECOND SHEET
*Thickness Depth to	Sieve Analysis Yes (please enclose) No 12. STATIC WATER LEVEL ft. below land surface after 24 hours
Formation Description of Bottom of	
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
	ft. after hrs. Pumping G.P.M. Pumping Test: ☐ Yes (please enclose) ☒ No
	Yield:
	14. WATER QUALITY
	Chemical Analysis ☐ Yes ☒No Bacterial Analysis ☐ Yes ☒No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☒ No
	Installed from ft. to ft.
	Effective size Uniformity Coefficient
	16. WELL GROUTED? Yes □ No
	⊠ Neat Cement
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
	Type
	Well Disinfected ☐ Yes ☒ No Type: Amount:
	18. PUMP: Date installed: Not installed 🗵
	Mfr. Name: Model No.:
+	H.P Volts Length of drop pipe ft. Capacity gpm
	TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: Brian Ewing CERT. NO.: 1947
	Address: (Print) Level: A B C D (circle one)
	SAEDACCO 9088 Northfield Drive
	Fort Mill, SC 29707
*Indicate Water Bearing Zones	Telephone No.: (803) 548-2180 Fax No.: (803) 548-2181
(Use a 2nd sheet if needed)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
5. REMARKS:	my direction and this report is true to the best of my knowledge and belief.
TREMI GROUTED FROM BOTTOM TO SURFACE	
	Brian Ewing
	Signed: Date: 2/15/2024
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	F-WAST (\$100.00 CO. 100.00 CO. 10
Dug ☐ Air Rotary ☐ Driven	If D Level Driller, provide supervising driller's name:
☐ Cable tool ☐ Other	RICH LEMIRE
to an experiment resources Will resolution (Control of Control of	