



*Prepared for*

**Crisp County Power Commission**  
202 S. 7<sup>th</sup> Street  
Cordele, Georgia 31015

# **2024 ANNUAL GROUNDWATER MONITORING REPORT**

**CRISP COUNTY POWER COMMISSION  
PLANT CRISP SECONDARY ASH AREAS  
Warwick, Georgia**

*Prepared by*

**Geosyntec**   
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200  
Kennesaw, Georgia 30144

January 2025

**CERTIFICATION BY QUALIFIED PROFESSIONAL ENGINEER**

I certify that this Groundwater Monitoring Report was prepared by me or under my direct supervision and meets the requirements of Section 40 C.F.R. §257 of the Federal Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule (40 CFR §257) and the Georgia EPD Solid Waste Management Rule for Coal Combustion Residuals (391-3-4-.10). The Groundwater Monitoring Report includes statistical methods and narrative description appropriate for evaluating the groundwater monitoring data for the CCR management area.

MEHMET ISCIMEN  
Printed Name of Qualified Professional Engineer

034164  
Registration No.

GEORGIA  
Registration State



01/31/2025

Stamp/Signature/Date

**CERTIFICATION BY QUALIFIED GROUNDWATER SCIENTIST**

I certify that this Groundwater Monitoring Report meets the requirements of Section 40 C.F.R. §257 of the Federal Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule (40 C.F.R. §257) and the Georgia EPD Solid Waste Management Rule for Coal Combustion Residuals (391-3-4-.10). The Groundwater Monitoring Report includes statistical methods and narrative description appropriate for evaluating the groundwater monitoring data for the CCR management area.

DAWIT YIFRU

Printed Name of Qualified Groundwater Scientist

PG001956  
Registration No.

Georgia  
Registration State



*Dawit D. Yifru*  
01/31/2025

Stamp/Signature/Date

## TABLE OF CONTENTS

CERTIFICATION BY QUALIFIED PROFESSIONAL ENGINEER.....	i
CERTIFICATION BY QUALIFIED GROUNDWATER SCIENTIST .....	ii
EXECUTIVE SUMMARY .....	1
1.0 INTRODUCTION .....	3
1.1 Overview .....	3
1.1 Site History .....	4
1.3 Geologic and Hydrogeologic Setting .....	5
1.4 Groundwater Monitoring Well Network .....	6
2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS.....	8
2.1 Groundwater Sampling and Laboratory Analysis .....	8
2.2 April 2024 Groundwater Monitoring Results.....	10
2.3 October 2024 Groundwater Monitoring Results .....	10
3.0 STATISTICAL DATA ANALYSIS PROCEDURES .....	12
3.1 Appendix III Statistical Methods .....	12
3.2 Appendix IV Statistical Methods .....	13
3.3 Evaluation of SSLs for Appendix IV Constituents .....	14
4.0 STATISTICAL ANALYSIS RESULTS.....	15
5.0 FUTURE GROUNDWATER MONITORING PROGRAM.....	16
6.0 REFERENCES .....	17

## LIST OF TABLES

Table 1	Monitoring Well Network Summary
Table 2	Groundwater Elevation Summary
Table 3	Hydraulic Gradient and Groundwater Flow Velocity Calculations

Table 4	Analytical Data Summary – Sampling Performed on 23 April 2024
Table 5	Analytical Data Summary – Sampling Performed on 16-17 October 2024
Table 6	Evaluation of SSIs for Appendix III Constituents
Table 7	Summary of Basic Groundwater Statistics and GWPS for Appendix IV Constituents
Table 8	Evaluation of SSLs for Appendix IV Constituents

### **LIST OF FIGURES**

Figure 1	Groundwater Monitoring Well Location Map
Figure 2	Potentiometric Surface Map (April 2024)
Figure 3	Potentiometric Surface Map (October 2024)

### **LIST OF APPENDICES**

Appendix A	Field Groundwater Sampling Forms
Appendix B	Laboratory Analytical Reports
Appendix C	Statistical Analysis Reports

## LIST OF ACRONYMS AND ABBREVIATIONS

CCPC	Crisp County Power Commission
CCR	Coal Combustion Residual
C.F.R.	Code of Federal Regulations
cm/sec	Centimeters per Second
DNR	Department of Natural Resources
DO	Dissolved Oxygen
ft/day	Feet per Day
ft/ft	Feet Per Foot
ft/year	Feet per Year
GA EPD	Georgia Environmental Protection Division
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
<i>i</i>	horizontal hydraulic gradient
$K_h$	Horizontal Hydraulic Conductivity
LSADS	Laboratory Services and Applied Science Division
MCL	Maximum Contaminant Level
mg/L	Milligram Per Liter
MW	Megawatt
$n_e$	effective porosity
NTU	Nephelometric Turbidity Units
ORP	Oxidation Reduction Potential
PE	Professional Engineer
PG	Professional Geologist
PL	Prediction Limit
QA/QC	Quality Assurance/Quality Control
SESD	Science and Ecosystem Support Division
SOP	Standard Operating Procedure
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
SU	Standard Unit
TDS	Total Dissolved Solids
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit

## EXECUTIVE SUMMARY

Crisp County Power Commission (CCPC) has been monitoring the groundwater quality at Plant Crisp's two former coal ash disposal areas (referred in this document as secondary ash areas) in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule [40 Code of Federal Regulations (C.F.R.) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rule for CCR (391-3-4-.10). The timeline and status of the monitoring program and the relevant findings and conclusions derived for this reporting period (i.e., between January through December 2024) are summarized as follows.

- In compliance with 40 C.F.R. §257.94, a groundwater detection monitoring program was conducted between July 2022 and October 2023.
- In compliance with 40 C.F.R. §257.95(a), CCPC initiated an assessment monitoring program in February 2024. The secondary ash areas have been monitored under the assessment monitoring program in April 2024 and October 2024.
- Pursuant to 40 C.F.R. §257.95 and GA EPD Rule 391-3-4-.10(6), Statistically Significant Increases (SSIs) above background levels were identified for select Appendix III<sup>1</sup> constituents set forth below where concentrations of Appendix III constituents in the downgradient monitoring wells were statistically higher than the concentrations in background wells. No values exceeded regulatory levels or maximum contaminant levels. No Statistically Significant Levels (SSLs) above the Groundwater Protection Standards were identified for Appendix IV<sup>2</sup> constituents during the reporting period. A summary of SSIs of Appendix III and SSLs<sup>3</sup> of Appendix IV parameters is provided in the table below.

---

<sup>1</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

<sup>2</sup> Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

<sup>3</sup> A statistically significant level (SSL) is determined by comparing the confidence intervals developed for each constituent to their groundwater protection standard (GWPS). The GWPS is either the constituent's MCL, if available, or the USEPA Regional Screening Level (RSL), if no MCL is available. If the calculated background interwell tolerance limit is higher than the MCL or the RSL, the background concentration is used as GWPS (40 CFR § 257.95(h)).

<b>Appendix III Parameter</b>	<b>April 2024</b>	<b>October 2024</b>
<i>Calcium</i>	<i>MW-D4, MW-D7, MW-D8, MW-D9</i>	<i>MW-D4, MW-D5, MW-D7, MW-D8, MW-D9</i>
<i>Total Dissolved Solids (TDS)</i>	<i>MW-D7, MW-D8, MW-D9</i>	<i>MW-D7, MW-D8</i>
<b>Appendix IV Parameter</b>	<i>No SSL</i>	<i>No SSL</i>

- Pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule, assessment monitoring will continue at the secondary ash areas. The next assessment report will be submitted to the GA EPD in January 2025.



## 1.0 INTRODUCTION

### 1.1 Overview

Geosyntec Consultants (Geosyntec) of Kennesaw, Georgia, at the request of Crisp County Power Commission (CCPC), prepared this 2024 Annual Groundwater Monitoring Report for two former coal ash disposal areas (referred in this document as secondary ash areas) located at CCPC's Plant Crisp (the Site). Plant Crisp is located in Warwick, Georgia, on the southern end of Lake Blackshear (**Figure 1**). The secondary ash areas were discovered in the vicinity of the ash pond at CCPC's Plant Crisp. CCPC installed a groundwater monitoring well network in May 2022 in compliance with the requirements of the 40 CFR §257.91 as well the Section 391-3-4-.10(6) of the Georgia Environmental Protection Division (GA EPD) CCR Rule.

A groundwater detection monitoring program was performed between July 2022 and October 2023 in compliance with the requirements of the 40 CFR §257.94. The first Annual Groundwater Monitoring Report summarizing the results of detection groundwater monitoring activities was prepared in January 2024 [Geosyntec, 2024a]. Based on the detection monitoring results and in compliance with 40 C.F.R. §257.95(a), CCPC initiated an assessment monitoring program for the secondary ash areas in February 2024. The assessment monitoring continued in 2024 by performing two semi-annual monitoring events in April 2024 and October 2024. The April 2024 assessment monitoring events were performed for constituents listed in Appendix III to part §257 (referred herein as Appendix III constituents) and Appendix IV to part §257 (referred herein as Appendix IV constituents) (40 C.F.R. §257.95(b)). The October 2024 semi-annual assessment monitoring event was performed for all parameters in Appendix III to part §257 and for those constituents in Appendix IV that were detected during the April 2024 monitoring (40 C.F.R. §257.95(d)(1)). The groundwater monitoring and statistical analyses were performed consistent with the Groundwater Monitoring and Statistical Analysis Plan prepared for the secondary ash areas in February 2024 [Geosyntec, 2024b].

The purpose of this report is to present a summary of the April 2024 and October 2024 groundwater assessment monitoring activities and associated laboratory and statistical analysis results. This report has been prepared to meet annual reporting requirements of

40 C.F.R. §257.90(e) and the semi-annual reporting requirements of GA EPD CCR Rule 391-3-4-.10(6) (c)<sup>4</sup>.

In summary, Appendix IV constituents were detected in groundwater samples during both the April 2024 and October 2024 monitoring events. The detected concentrations were below their respective United States Environmental Protection Agency's (USEPA's) maximum contaminant levels (MCLs) (Appendix I to 40 C.F.R. §257)<sup>5</sup> or groundwater protection standard (GWPS), if an MCL is not available for the constituent.

### **1.1 Site History**

Plant Crisp is a dual-fuel (coal and natural gas) electrical generation facility, with a 12.5-megawatt (MW) capacity coal-fired unit and 5 MW capacity natural gas combustion turbine. The byproducts of power generation from the combustion of coal (commonly referred to as CCR) at Plant Crisp included mainly fly ash and bottom ash. The CCR was disposed into a 6.5-acre ash pond located within the plant property. The coal burning and resulting sluicing operation was completed in March 2017. To comply with both the United States Environmental Protection Agency's (USEPA's) 40 C.F.R. 257 and Georgia Environmental Protection Division's (GA EPD's) Solid Waste Management, Chapter 391-3-4-.10, CCPC has closed the ash pond by removal and disposal of the CCR at the Crisp County Sanitary Landfill. During the decommissioning of the ash pond, two secondary ash areas were discovered. Secondary Ash Area 1 and Secondary Ash Area 2 cover approximately 0.8 and 3.4 acres, respectively. The secondary ash areas are located on undeveloped land that are either naturally forested or landscaped grass fields (**Figure 1**).

In February 2022, CCPC submitted notification of closure of the secondary ash areas by removal in accordance with 40 C.F.R. §257. In August 2022, CCPC submitted a CCR permit modification application for closure of the secondary ash areas by removal in accordance with 40 C.F.R. §257.102(c) and the GA EPD rule 391-3-4-.10 and other GA EPD regulations as applicable. When this report was prepared, CCR removal activities and final site restoration activities have been completed. The Closure Construction certification report from a third-party Professional Engineer has been completed in

---

<sup>4</sup> The semi-annual groundwater monitoring report is a state requirement under DNR Rule 391-3-4.10(6)(c): The owner or operator of a CCR unit must submit a semi-annual report to the Division to coincide with the semi-annual sampling event. A qualified groundwater scientist must certify the report.

<sup>5</sup> MCLs are the maximum contaminant levels for potable drinking water which are established setting a lifetime consumption risk or acute level and would be applied to municipal or other drinking water sources (40 CFR § 141.62 and 40 CFR § 141.66).

January 2025. In addition, on 26 November 2024, GA EPD completed their review of a Major Modification application to the Solid Waste Handling Permit 159-007D (CCR) and issued the draft permit modification for public review and commenting. When this report was prepared, GA EPD was in the process of issuing the final permit modification for the Site.

### **1.3 Geologic and Hydrogeologic Setting**

CCPC is located in the Coastal Plain Physiographic Province of Georgia, which is generally characterized by gently rolling to nearly flat topography. The Coastal Plain Physiographic Province of Georgia is characterized by Late Cretaceous and Cenozoic sedimentary rocks and sediments. Based on the Geologic Map of Georgia [Georgia Department of Natural Resources, 1997], the Site is underlain by Quaternary-aged stream alluvium and undifferentiated terrace deposits underlain by residual soil derived by the weathering of Eocene-aged limestone. Beneath the residuum is Eocene-aged limestone (the Ocala Limestone) that dips gently to the southeast and generally thicken in that direction [Hicks et al, 1987]. The Ocala Limestone comprises part of the Upper Floridan aquifer, which is underlain by low permeability zones within the Lisbon Formation (argillaceous limestone). Subsurface investigations at the Site generally describe the surface geology as embankment fill, alluvium, residuum and limestone bedrock [ND&T, 1994, Rizzo, 2015, Geosyntec, 2019].

The uppermost aquifer at the Site is the unconfined groundwater aquifer that occurs in the alluvium and some upper portions of the residuum. The alluvial sediments consist of alternating layers of clay, silty sand, silty clayey sand, and some gravel (SM, SM-SC). While most of the of the residuum consists of clays and calcareous clay (marl) with limestone fragments, there may be sandy clay and gravelly clay lenses that could act along with the overlying alluvium as part of the uppermost aquifer. Based on field observations (increasing clay content with depth in the residuum and increasing blow counts with depth), the hydraulic conductivity of the residuum is expected to decline with depth. As such, the lower part of the residuum is likely a confining unit and represents the lower boundary of the uppermost aquifer. Recharge to the uppermost aquifer is from infiltration of precipitation.

In March 2019, Geosyntec performed slug testing in four monitoring wells to estimate horizontal hydraulic conductivity ( $K_h$ ) of the uppermost aquifer. Based on the slug testing results, the geometric mean of the  $K_h$  in the uppermost aquifer was estimated as  $1.44 \times$

$10^{-4}$  centimeters per second (cm/sec) [0.41 feet per day (ft/day)]. This value is similar to the  $K_h$  estimated for the alluvium and residuum during previous investigations.

Under natural conditions, the water table surface is a subdued reflection of the topography, with groundwater generally flowing from southeast to northwest from the higher elevations to lower elevations toward the Flint River. The movement of groundwater in the uppermost aquifer can be characterized as porous media flow.

#### **1.4 Groundwater Monitoring Well Network**

In accordance with 40 C.F.R. §257.91, a groundwater monitoring system was installed that (1) consists of a sufficient number of wells; (2) is installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer; and (3) represents the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions. The well network was certified by a professional engineer (PE) on August 12, 2022; the certification is maintained in the facility's Operating Record. Well construction diagrams of the monitoring wells were included in the Groundwater Monitoring and Statistical Analysis Plan [Geosyntec, 2024b].

The groundwater monitoring well network for the secondary ash areas includes two upgradient monitoring wells (MW-U1<sup>6</sup> and MW-U2) and six downgradient monitoring wells (MW-D4 through MW-D9). Monitoring wells MW-D4, MW-D5, and MW-D6 were installed immediately downgradient of Secondary Ash Area 2 (**Figure 1**). Monitoring wells MW-D7, MW-D8, and MW-D9 were installed immediately downgradient of Secondary Ash Area 1 (**Figure 1**). The monitoring wells are screened in the uppermost aquifer underlying the secondary ash areas, which is in the alluvium and upper portion of the residuum. Well construction details are provided in **Table 1**.

CCPC does not currently plan to expand the certified monitoring well network for the secondary ash areas. During the monitoring period: (i) all wells were functioning properly; (ii) there were no dry wells; and (iii) no additional well installation or

---

<sup>6</sup> Monitoring well MW-U1 was installed for background monitoring for the ash pond. The well is also used as background well for the secondary ash areas.

abandonment was conducted. Therefore, no corrective action was needed for any of the monitoring wells.

## 2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS

### 2.1 Groundwater Sampling and Laboratory Analysis

Groundwater assessment monitoring events for this reporting period were conducted in April 2024 and October 2024. The groundwater samples were collected in accordance with the USEPA Laboratory Services & Applied Science Division (LSASD) Operating Procedure (LSASDPROC-301-R6) [USEPA, Athens, Georgia, 2023].

Prior to sampling, depth to groundwater and total well depth were measured for each monitoring well using an electrical water level indicator. The water level indicator was cleaned between wells following the decontamination procedure listed under SESDPROC-205-R3 [USEPA, Athens, Georgia, 2015]. Depth to groundwater data and groundwater elevations from the April 2024 and October 2024 monitoring are summarized in **Table 2**<sup>7</sup>. The groundwater elevation data were used to prepare the April 2024 and October 2024 potentiometric surface maps. These maps are provided as **Figure 2** and **Figure 3**, respectively. Based on the April and October 2024 potentiometric surface maps, groundwater flow direction is from southeast towards northwest with a hydraulic gradient of approximately 0.012 feet per foot (ft/ft) in both cases (**Table 3**). The average horizontal groundwater flow velocity was calculated using Darcy's equation as approximately 9 feet per year (ft/year) (**Table 3**).

Groundwater sampling was performed using a low-flow sampling method. To assess that the samples collected were representative of the groundwater in the aquifer, field water quality parameters were measured during purging using a Horiba U-52 water quality meter. These parameters include temperature, pH, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO). Measurements were taken within an enclosed flow-through cell to minimize effects of contact with air. Turbidity was measured using LaMotte 2020we turbidity meter. Purging was considered complete when the following stabilization criteria were met for at least three consecutive measurements (as defined by USEPA LSASD operating Procedure ID. LSASDPROC-301-R6):

- pH  $\pm$  0.1 Standard Units (SU);

---

<sup>7</sup> In addition to the secondary ash areas monitoring wells (i.e., MW-D4 through MW-D9, MW-U1, and MW-U2), depth to groundwater level measurements and the calculated groundwater elevations in monitoring wells installed for ash pond monitoring (i.e., MW-D1, MW-D2, and MW-D3) are presented in Table 2. Groundwater elevation data from the ash pond monitoring wells, the secondary ash areas monitoring wells, and water level data from Lake Blackshear are used to make the potentiometric surface map.

- Conductivity  $\pm 5\%$ ;
- Turbidity measured less than 10 nephelometric turbidity units (NTU);
- Other parameters used are dissolved oxygen  $\pm 0.2$  milligrams per liter (mg/L) or  $\pm 10\%$  change in saturation, whichever is greater and ORP (reasonable ORP stability goal is  $\pm 20$  mV).

Field groundwater sampling forms are provided in **Appendix A**.

The groundwater samples were collected in laboratory-provided containers. Following sampling, the bottles were sealed, labeled, packed in ice, and shipped under chain-of-custody protocol to Eurofins Environment Testing in Pensacola, FL, a certified laboratory pursuant to the Georgia State Program. The chain-of-custody procedures were conducted in accordance with SESDPROC-005-R2 [USEPA, Athens, Georgia 2013]. The April 2024 groundwater samples were analyzed for Appendix III constituents (i.e., boron, calcium, chloride, fluoride, sulfate, total dissolved solids) and Appendix IV constituents (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226 and 228 combined, selenium, and thallium). The metal constituents were analyzed as total recoverable as the samples were not field-filtered. The October 2024 groundwater samples were analyzed for Appendix III constituents and the Appendix IV constituents that were detected during the April 2024 monitoring event (i.e., antimony, arsenic, barium, chromium, cobalt, fluoride, lead, molybdenum, radium 226 and 228 combined, and selenium). Groundwater pH, also an Appendix III constituent, was measured in the field using a Horiba water quality meter.

Field duplicate samples (DUP-11 from MW-D8 in April 2024 and DUP-12 from MW-D4 in October 2024) were collected for quality assurance/quality control (QA/QC). The duplicate samples were collected in laboratory-provided bottles and shipped under the same chain-of-custody as the primary samples for analysis of the same parameters by Eurofins Environment Testing. Results from the duplicate samples were presented in **Tables 4** and **Table 5**. Field sampling quality control samples (field blank and equipment blank) were collected during both the April 2024 and October 2024 monitoring events.

## **2.2 April 2024 Groundwater Monitoring Results**

Laboratory analytical results for Appendix III constituents from the April 2024 monitoring event are summarized in **Table 4**. Appendix III constituents were detected in the upgradient and downgradient monitoring well locations.

Laboratory analytical results for Appendix IV constituents are summarized in **Table 4**. Low levels of Appendix IV constituents (antimony, barium, chromium, cobalt, fluoride, lead, and radium 226 and 228 combined) were detected in the downgradient monitoring wells with detected antimony, cobalt, chromium, and lead concentrations being approximate (i.e., shown with “J” flag). Similarly, low levels of barium, chromium, fluoride, and selenium were detected in the background/upgradient monitoring wells MW-U1 and/or MW-U2. **Table 4** shows that the detected concentrations of Appendix IV constituents are below their respective USEPA’s MCLs or groundwater protection standards (GWPS). Low level Appendix IV constituents detected during the April 2024 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background wells. Laboratory reports are included in **Appendix B**.

## **2.3 October 2024 Groundwater Monitoring Results**

Laboratory analytical results of Appendix III constituents from the October 2024 groundwater assessment monitoring event are summarized in **Table 5**. Appendix III constituents were detected in the downgradient and upgradient monitoring well locations.

Laboratory analytical results of Appendix IV constituents from the October 2024 groundwater assessment monitoring event are summarized in **Table 5**. Low levels of Appendix IV constituents (barium, chromium, cobalt, fluoride, lead, and radium 226 and 228 combined) were detected in the downgradient monitoring wells but significantly below groundwater protection standard or MCL levels; with detected cobalt and lead concentrations being approximate (i.e., shown with “J” flag). Similarly, low levels of barium, chromium, fluoride, radium 226 and 228 combined, and selenium were detected in the background/upgradient monitoring wells MW-U1 and/or MW-U2. **Table 5** shows that the detected concentrations of Appendix IV constituents are below their respective USEPA’s MCLs or GWPS. Low level Appendix IV constituents detected during the October 2024 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background well. The October 2024



laboratory reports are provided in **Appendix B**. Results of the field sampling quality control samples (field blank and equipment blank) are also provided in **Appendix B**.

The April and October 2024 assessment monitoring results were statistically evaluated in accordance with 40 C.F.R. §257.93(g). The statistical analysis results are discussed in Section 3.

### 3.0 STATISTICAL DATA ANALYSIS PROCEDURES

Statistical analysis of the groundwater data collected during the assessment monitoring event was performed in accordance with the methods listed in the Groundwater Monitoring and Statistical Analysis Plan (Geosyntec, 2024b). The statistical methods meet the requirements of the methods specified in 40 C.F.R. §257.93(f) (1) through (5) and the performance standards specified in 40 C.F.R. §257.93(g). Statistical analysis was performed using Sanitas™ v.9.6.05 software for Appendix III and Appendix IV constituents. Sanitas™ is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance (Unified Guidance) (USEPA, 2009).

The primary objectives of the statistical data analysis conducted during this reporting period are:

- (i) To assess if Appendix III constituents have returned to background levels.
- (ii) To calculate statistically derived background concentration for each Appendix IV constituent: The statistically derived background concentration is used as GWPS when the statistically derived background concentration is higher than the MCL (if an MCL has been established under 40 C.F.R. §161.62 and §141.66) or the standard listed under 40 C.F.R. §257.95 (h)(2) for those constituents without an established MCL.
- (iii) To construct a lower confidence interval for each Appendix IV constituent at each downgradient well and compare the lower confidence interval to an established GWPS and determine whether a statistically significant level (SSL) is present at any of the downgradient monitoring wells.

Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in Sections 3.1 and 3.2.

#### 3.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs). Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the

most recent sample from each downgradient well is compared to the background limit to assess whether there are significant statistical increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient compliance monitoring well exceeds the constituent's associated PL.

### **3.2 Appendix IV Statistical Methods**

As a first step in developing the GWPS, groundwater data from the background well were screened for potential outlier (anomalous) data. In addition to visual inspection using time-series plots, statistical methods, such as the USEPA 1989 Outlier Screening method, were used to identify outliers in the groundwater data (when the data was normally distributed). Tukey's Outlier Screening method was used when background well data was not normally distributed. Although outliers were detected, they were not removed from the statistical analysis due to: (i) a large number of non-detects (also referred as censored data in the USEPA Unified Guidance) in the data set; and (ii) the USEPA Unified Guidance recommendation on screening data only if the source of the outlier is known. Data distribution was checked using Shapiro Wilk method at 99% confidence level. This method is appropriate for a sample size of less than 50. For statistical data analysis, non-detect laboratory results were replaced with their reporting limit in accordance with the USEPA Unified Guidance recommendation [USEPA, 2009].

The USEPA Unified Guidance recommends utilizing upper tolerance limits (UTL) from the background well to establish background concentrations. In addition, the CCR Rule lists the UTL method, calculated using data from the background well, as one of the methods acceptable for CCR data analysis [40 C.F.R. §257.93(f)(3)]. As a result, the GWPSs for the site were developed utilizing the UTL method and generally consisted of the following procedures:

- Parametric tolerance limits (95% coverage and 95% confidence) were constructed when the background data followed a normal or transformed-normal distribution.
- Non-parametric tolerance limits were calculated for data sets with greater than 50% non-detect values, and for data sets which do not follow a normal or transformed-normal distribution.
- The UTL was calculated for each constituent using background well data collected during the eight detection monitoring events and the assessment

monitoring events conducted to date. As described in 40 C.F.R. §257.95(h), which was adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022, the GWPS is:

- (1) the maximum contaminant level (MCL) established under 40 C.F.R. §141.62 and §141.66.
- (2) where an MCL has not been established:
  - (i) Cobalt 0.006 mg/L;
  - (ii) Lead 0.015 mg/L;
  - (iii) Lithium 0.040 mg/L; and
  - (iv) Molybdenum 0.100 mg/L.
- (3) the UTL computed from background well data for constituents where the UTL is higher than the MCL or rule-specified GWPS.

### **3.3 Evaluation of SSLs for Appendix IV Constituents**

The USEPA Unified Guidance [USEPA, 2009] recommends utilizing the lower confidence interval from a downgradient well along with the double quantification rule to evaluate SSLs. A 99% lower confidence interval was constructed for each constituent at each downgradient well and the double quantification rule was used to evaluate SSLs. Under this rule, an SSL can be concluded if the lower confidence limit is higher than the GWPS.

#### 4.0 STATISTICAL ANALYSIS RESULTS

Appendix III statistical analyses results identified SSIs for the following constituents: calcium and TDS during the April 2024 and October 2024 monitoring events. The PL for each constituent and the list of wells with SSIs are summarized in **Table 6**. Because Appendix III statistical analyses results indicated that groundwater conditions have not returned to background levels, assessment monitoring should continue pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule.

The statistical analysis results for Appendix IV constituents are summarized in **Table 7**, which shows the (i) ratio of non-detects to total number of samples; (ii) basic statistics for each constituent in a monitoring well such as minimum and maximum; (iii) UTL of each constituent constructed based on the background well data; (iv) an MCL value for the constituent (if available) established under 40 C.F.R. §161.62 and 40 C.F.R. §141.66 or the standard listed under 40 C.F.R. §257.95(h)(2); and (v) the selected GWPS for each constituent.

**Table 8** shows the lower confidence limit constructed for each Appendix IV constituent at each downgradient well and the results of comparison between the lower confidence limit and the selected GWPS to evaluate if there are any SSLs. Comparison of the lower confidence limit to the selected GWPS revealed no SSLs during the 2024 reporting period. The Sanitas<sup>™</sup> statistical calculations and time-series graphs for each constituent are provided in **Appendix C**.

If Appendix IV constituents continue to remain statistically below the GWPS after 5-years from the removal of all CCR waste from the secondary ash areas, groundwater monitoring will be discontinued in accordance with 40 C.F.R. §257.102(c) and GA EPD CCR Rule 391-3-4-.10.

## **5.0 FUTURE GROUNDWATER MONITORING PROGRAM**

Data collected during the assessment monitoring events indicated that Appendix IV constituents detected in the downgradient monitoring wells were below their respective GWPS. Pursuant to the CCR Rule 40 C.F.R. §257.95(d)(1) and GA EPD's CCR Rules, CCPC will continue groundwater sampling semi-annually for Appendix III and Appendix IV constituents. The next annual groundwater monitoring report summarizing the 2025 groundwater monitoring results will be submitted by January 31, 2026. Pursuant to the GA EPD CCR Rule 391-3-4-.10(6)(c), a semi-annual monitoring will be conducted in April 2025 and a semi-annual monitoring report will be submitted to GA EPD by July 31, 2025.

The CCR removal at the secondary ash areas has been completed in 2024. Assuming the concentrations of the Appendix IV constituents continue to remain below their respective GWPS, CCPC will discontinue groundwater monitoring after 5-years from the removal of all CCR waste from the secondary ash areas in accordance with 40 C.F.R. §257.102(c) and GA EPD CCR Rule 391-3-4-.10.

## 6.0 REFERENCES

USEPA (2009). Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance.

USEPA (2013). Science and Ecosystem Support Division (SESD, Athens, Georgia) Standard Operating Procedure (SOP) (SESDPROC-301-R3).

USEPA (2015). Science and Ecosystem Support Division (SESD, Athens, Georgia) Field Equipment Cleaning and Decontamination (SESDPROC-205-R3).

USEPA (2023). Laboratory Services & Applied Science Division (LSASD, Athens, Georgia) Operating Procedure (LSASDPROC-301-R6).

# TABLES



**Table 1. Monitoring Well Network Summary  
Crisp County Power Commission  
Plant Crisp Secondary Ash Areas**

<b>Well ID</b>	<b>Installation Date</b>	<b>Well Location</b>	<b>Northing<sup>(1)</sup></b>	<b>Easting<sup>(1)</sup></b>	<b>Ground Surface Elevation<sup>(2)</sup> (ft)</b>	<b>Top of Casing Elevation<sup>(2)</sup> (ft)</b>	<b>Total Well Depth (ft bgs)</b>	<b>Screen Depth Interval (ft bgs)</b>	<b>Screen Interval Elevation<sup>(2)</sup> (ft)</b>	<b>Screen Interval Lithologic Information</b>
MW-D4	5/12/2022	Downgradient	669875.01	2365444.95	244.22	246.51	27.25	17.00-27.00	227.22-217.22	Residual Soil
MW-D5	5/16/2022	Downgradient	670216.49	2365178.72	238.31	241.16	33.00	22.75-32.75	215.56-205.56	Residual Soil
MW-D6	5/13/2022	Downgradient	670393.04	2365406.13	249.85	252.63	34.25	24.00-34.00	225.85-215.85	Residual Soil
MW-D7	5/13/2022	Downgradient	671054.07	2365037.89	227.21	230.18	24.40	14.15-24.15	213.06-203.06	Residual Soil
MW-D8	5/13/2022	Downgradient	671186.85	2364861.25	223.90	226.76	25.00	14.75-24.75	209.15-199.15	Residual Soil
MW-D9	5/14/2022	Downgradient	671482.27	2364959.09	218.99	221.42	24.80	14.55-24.55	204.44-194.44	Residual Soil
MW-U1	2/23/2017	Upgradient	669996.79	2366420.55	246.28	249.52	33.75	23.50-33.50	222.78-212.78	Alluvium and Residual Soil
MW-U2	5/12/2022	Upgradient	669748.63	2366247.88	245.69	248.79	27.75	17.50-27.50	228.19-218.19	Residual Soil

**Notes:**

ft = feet

bgs = below ground surface

The easting, northing, and top of casing elevations were obtained from a revised survey performed by J.B. Faircloth & Associates, P.C. on 19 November 2019 and 2 May 2022.

<sup>(1)</sup>: The easting and northing coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

<sup>(2)</sup>: Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

**Table 2. Groundwater Elevation Summary  
Crisp County Power Commission  
Plant Crisp Secondary Ash Areas**

Well ID	CCR Unit being Monitored	TOC Elevation (ft MSL) <sup>(1)</sup>	Date: 4/23/2024		Date: 10/16/2024	
			Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-D1	Ash Pond	241.77	13.53	228.24	15.20	226.57
MW-D2	Ash Pond	232.66	11.73	220.93	12.75	219.91
MW-D3	Ash Pond	233.78	6.18	227.60	6.77	227.01
MW-U1	Ash Pond	249.52	7.85	241.67	10.84	238.68
MW-D4	Secondary Ash Areas	246.51	8.92	237.59	10.52	235.99
MW-D5	Secondary Ash Areas	241.16	7.23	233.93	8.49	232.67
MW-D6	Secondary Ash Areas	252.63	19.92	232.71	21.58	231.05
MW-D7	Secondary Ash Areas	230.18	6.29	223.89	7.48	222.70
MW-D8	Secondary Ash Areas	226.76	6.46	220.30	7.57	219.19
MW-D9	Secondary Ash Areas	221.42	6.25	215.17	6.61	214.81
MW-U2	Secondary Ash Areas	248.79	7.48	241.31	10.19	238.60
Lake Blackshear <sup>(2)</sup>	--	--	--	236.98	--	236.97

**Notes:**

ft = feet

TOC = Top of casing

MSL = Mean sea level

BTOC = Below top of casing

-- : Not Applicable

<sup>(1)</sup>: Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

<sup>(2)</sup>: Surface water at 12 pm on 4/23/2024 and 10/16/2024.

**Table 3. Hydraulic Gradient and Groundwater Flow Velocity Calculations  
Crisp County Power Commission  
Plant Crisp Secondary Ash Areas**

Location	Hydraulic Gradient (4/23/2024)				Groundwater Flow Velocity (4/23/2024)		
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K <sub>h</sub> (ft/day)	η <sub>e</sub>	V (ft/year) <sup>1</sup>
Between MW-U1 (h <sub>1</sub> ) and MW-D9 (h <sub>2</sub> )	241.67	215.17	2,075	0.013	0.41	0.20	9.6
Between MW-D4 (h <sub>1</sub> ) and MW-D9 (h <sub>2</sub> )	237.59	215.17	1,690	0.013	0.41	0.20	9.9
Between Lake Blackshear (h <sub>1</sub> ) and MW-D3 (h <sub>2</sub> )	236.98	227.60	905	0.010	0.41	0.20	7.8
<b>Average</b>	<b>0.012</b>				<b>9.03</b>		

Location	Hydraulic Gradient (10/16/2024)				Groundwater Flow Velocity (10/16/2024)		
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K <sub>h</sub> (ft/day)	η <sub>e</sub>	V (ft/year) <sup>1</sup>
Between MW-U1 (h <sub>1</sub> ) and MW-D9 (h <sub>2</sub> )	238.68	214.81	2,075	0.012	0.41	0.20	8.6
Between MW-D4 (h <sub>1</sub> ) and MW-D9 (h <sub>2</sub> )	235.99	214.81	1,690	0.013	0.41	0.20	9.4
Between Lake Blackshear (h <sub>1</sub> ) and MW-D3 (h <sub>2</sub> )	236.97	227.01	905	0.011	0.41	0.20	8.2
<b>Average</b>	<b>0.012</b>				<b>8.73</b>		

**Notes:**

ft = feet

ft/day = feet per day

ft/ft = feet per foot

ft/year = feet per year

h<sub>1</sub> and h<sub>2</sub> = groundwater elevation for upgradient and downgradient location, respectively.

Δh/Δl = hydraulic gradient

K<sub>h</sub> = hydraulic conductivity geometric mean of 0.41 ft/day estimated using slug testing in monitoring wells.

<sup>(2)</sup>: Surface water at 12 pm on 4/23/2024 and 10/16/2024.

η<sub>e</sub> = effective porosity (estimated based on fine-grained sand aquifer) (Kresic, 2007)

V = groundwater flow velocity

<sup>(1)</sup> Groundwater flow velocity equation:  $V = [K_h * (\Delta h / \Delta l)] / \eta_e$

**Table 5. Analytical Data Summary – Sampling Performed on 16-17 October 2024**  
**Crisp County Power Commission**  
**Plant Crisp Secondary Ash Areas**

**Appendix III to 40 C.F.R. Part 257 - Constituents for Detection Monitoring**

Constituent	Unit	MCL <sup>(1)</sup>	CCR-Rule Specified <sup>(4)</sup>	MDL <sup>(2)</sup>	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
							MW-D4	DUP-12					
Boron	mg/L	N/A	N/A	0.022	ND	0.023 J	ND	ND	ND	ND	0.044 J	0.06	ND
Calcium	mg/L	N/A	N/A	0.14	38	14	53	51	44	40	75	89	57
Chloride	mg/L	N/A	N/A	1.4	ND	ND	ND	ND	6	2.4	2.8	4.9	ND
Fluoride	mg/L	4	N/A	0.022	0.064 J	0.040 J	0.14	0.14	0.030 J	0.090 J	0.078 J	0.059 J	0.084 J
Sulfate	mg/L	N/A	N/A	1.4	2.3 J	20	ND	ND	5.4	6.2	4.0 J	21	4.3 J
pH <sup>(3)</sup>	SU	N/A	N/A	N/A	7.95	7.22	8.74	NA	6.85	7.93	8.51	8.49	8.59
Total Dissolved Solids	mg/L	N/A	N/A	5.0	110 H	80 H	140 H	140 H	130 H	120 H	210 H	280 H	160 H

**Appendix IV to 40 C.F.R. Part 257 - Constituents for Assessment Monitoring**

Constituent	Unit	MCL <sup>(1)</sup>	CCR-Rule Specified <sup>(4)</sup>	MDL <sup>(2)</sup>	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
							MW-D4	DUP-12					
Antimony	mg/L	0.006	N/A	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.00086	ND	ND	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2	N/A	0.00089	0.0022 J ^6+	0.015 ^6+	0.021 ^6+	0.020 ^6+	0.053 ^6+	0.0085 ^6+	0.077 ^6+	0.061 ^6+	0.038 ^6+
Chromium	mg/L	0.1 <sup>(5)</sup>	N/A	0.0012	0.0022 J	0.0042	0.0019 J	0.0019 J	0.0039	0.0027	0.0012 J	ND	ND
Cobalt	mg/L	N/A	0.006	0.00022	ND	ND	ND	ND	0.0012 J	ND	0.00054 J	0.00022 J	ND
Fluoride	mg/L	4	N/A	0.022	0.064 J	0.040 J	0.14	0.14	0.030 J	0.090 J	0.078 J	0.059 J	0.084 J
Lead	mg/L	0.015 <sup>(6)</sup>	N/A	0.00021	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.00086	ND	ND	NA	NA	NA	NA	NA	NA	NA
Radium 226 and 228 Combined	pCi/L	5	N/A	- <sup>(7)</sup>	-0.162U	-0.0533 U	0.0505 U	0.984	0.535 U	-0.119 U	-0.204 U	-0.264 U	0.345 U
Selenium	mg/L	0.050	N/A	0.00099	ND	0.00130	ND	ND	ND	ND	ND	ND	ND

**Notes:**

MCL = Maximum Contaminant Level

MDL = Method Detection Limit

mg/L = milligrams per liter.

S.U. = Standard Unit.

pCi/L = picocuries per liter.

ND = the constituent was not detected above the analytical MDL.

NA = the constituent was not analyzed during the monitoring event.

N/A = not applicable for the constituent.

-- '=' not applicable

DUP-11 is a duplicate sample collected from MW-D8.

J = concentration is less than the reporting level but greater than or equal to the MDL and the reported concentration is an approximate value.

B = compound was found in blank and sample.

U = Result is less than the sample detection limit.

^6+ = Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.

H = Sample was prepped or analyzed beyond the specified holding time.

<sup>(1)</sup>: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR § 141.62 and 40 CFR § 141.66.

<sup>(2)</sup>: MDL indicates minimum detection limit, which is the minimum concentration of analyte that can be measured and reported.

<sup>(3)</sup>: The pH value was recorded at the time of sample collection in the field.

<sup>(4)</sup>: On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated Groundwater Protection Standard (GWPS) for cobalt, lithium, lead, and molybdenum.

<sup>(5)</sup>: MCL value for total chromium.

<sup>(6)</sup>: Lead Treatment Technology Action Level is 0.015 mg/L.

<sup>(7)</sup>: During the analysis of radium, background concentrations are subtracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.648 pCi/L for MW-U1, 0.720 pCi/L for MW-U2, 0.847 pCi/L for MW-D4, 1.80 pCi/L for MW-D5, 0.672 pCi/L for MW-D6, 0.737 pCi/L for MW-D7, 0.851 pCi/L for MW-D8, 0.765 pCi/L for MW-D9, and 0.839 pCi/L for DUP-12.

**Table 5. Analytical Data Summary – Sampling Performed on 16-17 October 2024**  
**Crisp County Power Commission**  
**Plant Crisp Secondary Ash Areas**

**Appendix III to 40 C.F.R. Part 257 - Constituents for Detection Monitoring**

Constituent	Unit	MCL <sup>(1)</sup>	CCR-Rule Specified <sup>(4)</sup>	MDL <sup>(2)</sup>	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
							MW-D4	DUP-12					
Boron	mg/L	N/A	N/A	0.022	ND	0.023 J	ND	ND	ND	ND	0.044 J	0.06	ND
Calcium	mg/L	N/A	N/A	0.14	38	14	53	51	44	40	75	89	57
Chloride	mg/L	N/A	N/A	1.4	ND	ND	ND	ND	6	2.4	2.8	4.9	ND
Fluoride	mg/L	4	N/A	0.022	0.064 J	0.040 J	0.14	0.14	0.030 J	0.090 J	0.078 J	0.059 J	0.084 J
Sulfate	mg/L	N/A	N/A	1.4	2.3 J	20	ND	ND	5.4	6.2	4.0 J	21	4.3 J
pH <sup>(3)</sup>	SU	N/A	N/A	N/A	7.95	7.22	8.74	NA	6.85	7.93	8.51	8.49	8.59
Total Dissolved Solids	mg/L	N/A	N/A	5.0	110 H	80 H	140 H	140 H	130 H	120 H	210 H	280 H	160 H

**Appendix IV to 40 C.F.R. Part 257 - Constituents for Assessment Monitoring**

Constituent	Unit	MCL <sup>(1)</sup>	CCR-Rule Specified <sup>(4)</sup>	MDL <sup>(2)</sup>	Upgradient Well ID		Downgradient Well ID						
					MW-U1	MW-U2	MW-D4		MW-D5	MW-D6	MW-D7	MW-D8	MW-D9
							MW-D4	DUP-12					
Antimony	mg/L	0.006	N/A	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.00086	ND	ND	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	2	N/A	0.00089	0.0022 J ^6+	0.015 ^6+	0.021 ^6+	0.020 ^6+	0.053 ^6+	0.0085 ^6+	0.077 ^6+	0.061 ^6+	0.038 ^6+
Chromium	mg/L	0.1 <sup>(5)</sup>	N/A	0.0012	0.0022 J	0.0042	0.0019 J	0.0019 J	0.0039	0.0027	0.0012 J	ND	ND
Cobalt	mg/L	N/A	0.006	0.00022	ND	ND	ND	ND	0.0012 J	ND	0.00054 J	0.00022 J	ND
Fluoride	mg/L	4	N/A	0.022	0.064 J	0.040 J	0.14	0.14	0.030 J	0.090 J	0.078 J	0.059 J	0.084 J
Lead	mg/L	0.015 <sup>(6)</sup>	N/A	0.00021	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.00086	ND	ND	NA	NA	NA	NA	NA	NA	NA
Radium 226 and 228 Combined	pCi/L	5	N/A	- <sup>(7)</sup>	-0.162U	-0.0533 U	0.0505 U	0.984	0.535 U	-0.119 U	-0.204 U	-0.264 U	0.345 U
Selenium	mg/L	0.050	N/A	0.00099	ND	0.00130	ND	ND	ND	ND	ND	ND	ND

**Notes:**

MCL = Maximum Contaminant Level

MDL = Method Detection Limit

mg/L = milligrams per liter.

S.U. = Standard Unit.

pCi/L = picocuries per liter.

ND = the constituent was not detected above the analytical MDL.

NA = the constituent was not analyzed during the monitoring event.

N/A = not applicable for the constituent.

-- '='= not applicable

DUP-11 is a duplicate sample collected from MW-D8.

J = concentration is less than the reporting level but greater than or equal to the MDL and the reported concentration is an approximate value.

B = compound was found in blank and sample.

U = Result is less than the sample detection limit.

^6+ = Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.

H = Sample was prepped or analyzed beyond the specified holding time.

<sup>(1)</sup>: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.

<sup>(2)</sup>: MDL indicates minimum detection limit, which is the minimum concentration of analyte that can be measured and reported.

<sup>(3)</sup>: The pH value was recorded at the time of sample collection in the field.

<sup>(4)</sup>: On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated Groundwater Protection Standard (GWPS) for cobalt, lithium, lead, and molybdenum.

<sup>(5)</sup>: MCL value for total chromium.

<sup>(6)</sup>: Lead Treatment Technology Action Level is 0.015 mg/L.

<sup>(7)</sup>: During the analysis of radium, background concentrations are subtracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.648 pCi/L for MW-U1, 0.720 pCi/L for MW-U2, 0.847 pCi/L for MW-D4, 1.80 pCi/L for MW-D5, 0.672 pCi/L for MW-D6, 0.737 pCi/L for MW-D7, 0.851 pCi/L for MW-D8, 0.765 pCi/L for MW-D9, and 0.839 pCi/L for DUP-12.

**Table 6. Evaluation of SSIs for Appendix III Constituents  
Crisp County Power Commission  
Plant Crisp Secondary Ash Areas**

<b>Appendix III to Part 257 Constituents for Detection Monitoring</b>	<b>Prediction Limit<sup>1</sup></b>	<b>Wells with SSI (April 2024 Monitoring)</b>	<b>Wells with SSI (October 2024 Monitoring)</b>
Boron (mg/L)	0.34	None	None
Calcium (mg/L)	42.74	MW-D4, MW-D7, MW-D8, MW-D9	MW-D4, MW-D5, MW-D7, MW-D8, MW-D9
Chloride (mg/L)	9.833	None	None
Field pH (SU)	<5.07 or >9.43	None	None
Fluoride (mg/L)	0.45	None	None
Sulfate (mg/L)	120	None	None
Total Dissolved Solids (TDS) (mg/L)	180.8	MW-D7, MW-D8, MW-D9	MW-D7, MW-D8

**Notes:**

mg/L = milligrams per liter.

SSI = Statistically Significant Increases compared to background.

SU = Standard Unit

<sup>1</sup>: The prediction limit values were calculated using data collected from the background wells MW-U1 and MW-U2 between February 2017 and October 2024. April 2024 concentrations were compared to the prediction values calculated for April 2024. The October 2024 measurements were compared with the prediction values calculated including the October 2024 data.

**Table 7. Summary of Basic Groundwater Statistics and GWPS for Appendix IV Constituents  
Crisp County Power Commission  
Plant Crisp Secondary Ash Areas**

Appendix IV to Part 257 - Constituents for Assessment Monitoring	Well ID	Number of Samples	Number of Non-detects	% Non-detects	Minimum	Maximum	Upper Tolerance Limit	Maximum Contaminant Level (MCL established under 40 CFR §161.62 and 40 CFR §141.66) or Groundwater Protection Standard (GWPS listed under 40 CFR §257.95(h)(2))	Selected GWPS for the Site
Antimony [mg/L]	MW-D4	12	11	92%	0.00042 JB	<0.005		0.006	0.006
	MW-D5	12	12	100%	<0.0025	<0.005			
	MW-D6	12	12	100%	<0.0025	<0.005			
	MW-D7	12	12	100%	<0.0025	<0.005			
	MW-D8	12	12	100%	<0.0025	<0.005			
	MW-D9	12	12	100%	<0.0025	<0.005			
	MW-U2	12	12	100%	<0.0025	<0.005	0.0025		
Arsenic [mg/L]	MW-D4	11	11	100%	<0.0013	<0.0025		0.01	0.01
	MW-D5	11	11	100%	<0.0013	<0.0025			
	MW-D6	11	11	100%	<0.0013	<0.0025			
	MW-D7	11	11	100%	<0.0013	<0.0025			
	MW-D8	11	11	100%	<0.0013	<0.0025			
	MW-D9	11	6	55%	0.00095 J	<0.0025			
	MW-U2	12	12	100%	<0.0013	<0.0025	0.0025		
Barium [mg/L]	MW-D4	12	0	0%	0.018	0.039		2	2
	MW-D5	12	0	0%	0.022	0.062			
	MW-D6	12	0	0%	0.0081	0.012 B			
	MW-D7	12	0	0%	0.074	0.15			
	MW-D8	12	0	0%	0.048 B	0.059			
	MW-D9	12	0	0%	0.037	0.053			
	MW-U2	12	0	0%	0.0092	0.043 B	0.043		
Beryllium [mg/L]	MW-D4	11	11	100%	<0.002	<0.004		0.004	0.004
	MW-D5	11	10	91%	0.00028 J	0.004			
	MW-D6	11	11	100%	<0.002	<0.004			
	MW-D7	11	11	100%	<0.002	<0.004			
	MW-D8	11	11	100%	<0.002	<0.004			
	MW-D9	11	11	100%	<0.002	<0.004			
	MW-U2	11	11	100%	<0.002	<0.004	0.002		
Cadmium [mg/L]	MW-D4	11	11	100%	<0.001	<0.002		0.005	0.005
	MW-D5	11	11	100%	<0.001	<0.002			
	MW-D6	11	11	100%	<0.001	<0.002			
	MW-D7	11	10	91%	0.00086 J	<0.002			
	MW-D8	11	10	91%	<0.001	<0.002			
	MW-D9	11	11	100%	<0.001	<0.002			
	MW-U2	11	10	91%	<0.001	0.002	0.0025		
Chromium [mg/L]	MW-D4	11	8	73%	0.0017 J	0.011		0.1	0.1
	MW-D5	11	8	73%	0.0016 J	0.026			
	MW-D6	11	5	45%	0.001 J	0.039			
	MW-D7	11	9	82%	0.0012 JB	<0.005			
	MW-D8	11	9	82%	0.0018 JB	0.0044 JB			
	MW-D9	11	9	82%	0.0014 JB	0.0049 J			
	MW-U2	11	7	64%	0.0017 J	0.0063	0.0063		
Cobalt [mg/L]	MW-D4	12	10	83%	0.00057 J	<0.005		0.006	0.006
	MW-D5	12	10	83%	0.0012 J	<0.005			
	MW-D6	12	11	92%	0.0021 J	<0.005			
	MW-D7	12	5	42%	0.00054 J	<0.005			
	MW-D8	12	10	83%	0.00022 J	<0.005			
	MW-D9	12	10	83%	0.00023 J	<0.005			
	MW-U2	12	10	83%	0.00068 J	<0.005	0.005		
Fluoride [mg/L]	MW-D4	12	1	8%	0.11	<1.00 H		4	4
	MW-D5	12	8	67%	0.027 J	<1.00 H			
	MW-D6	12	1	8%	0.081 J	<1.00 H			
	MW-D7	12	1	8%	0.069 J	<1.00 H			
	MW-D8	12	7	58%	0.05 J	<1.00 H			
	MW-D9	12	1	8%	0.05 J	<1.00 H			
	MW-U2	12	0	0%	0.041 J	0.45 J	0.45		
Lead [mg/L]	MW-D4	12	12	100%	<0.0013	<0.0025		0.015	0.0015
	MW-D5	12	9	75%	0.0004 J	<0.0025			
	MW-D6	12	12	100%	<0.0013	<0.0025			
	MW-D7	12	12	100%	<0.0013	<0.0025			
	MW-D8	12	12	100%	<0.0013	<0.0025			
	MW-D9	12	12	100%	<0.0013	<0.0025			
	MW-U2	12	12	100%	<0.0013	<0.0025	0.0025		
Lithium [mg/L]	MW-D4	11	11	100%	<0.0025	<0.005		0.04	0.04
	MW-D5	11	9	82%	<0.0025	0.0067			
	MW-D6	11	10	91%	<0.0025	0.0056			
	MW-D7	11	11	100%	<0.0025	<0.005			
	MW-D8	11	11	100%	<0.0025	<0.005			
	MW-D9	11	10	91%	<0.0025	<0.005			
	MW-U2	11	11	100%	<0.0025	<0.005	0.0058		
Mercury [mg/L]	MW-D4	11	11	100%	<0.0002	<0.0002		0.002	0.002
	MW-D5	11	11	100%	<0.0002	<0.0002			
	MW-D6	11	11	100%	<0.0002	<0.0002			
	MW-D7	11	11	100%	<0.0002	<0.0002			
	MW-D8	11	10	91%	<0.0002	0.00022 B			
	MW-D9	11	9	82%	0.00019 J	0.00022 B			
	MW-U2	11	10	91%	0.00018 JB	<0.0002	0.0002		
Molybdenum [mg/L]	MW-D4	11	10	91%	0.0038 J	<0.02		0.10	0.10
	MW-D5	11	10	91%	0.0027 J	<0.02			
	MW-D6	11	10	91%	0.0027 J	<0.02			
	MW-D7	11	10	91%	0.0031 J	<0.02			
	MW-D8	11	9	82%	0.00046 J	<0.02			
	MW-D9	11	9	82%	0.0023 J	<0.02			
	MW-U2	12	11	92%	0.0033 J	<0.02	0.02		
Radium 226 and 228 Combined [pCi/L]	MW-D4	12	1	8%	0.049	1.29		5	5
	MW-D5	12	1	8%	0.219	0.807			
	MW-D6	12	1	8%	-0.0527	1.43			
	MW-D7	12	1	8%	-0.0315	1.22			
	MW-D8	12	1	8%	-0.0397	0.851			
	MW-D9	12	1	8%	-0.0298	0.887			
	MW-U2	12	1	8%	0.0267	1.09	1.277		
Selenium [mg/L]	MW-D4	12	9	75%	0.0011 JB	0.0036		0.05	0.05
	MW-D5	12	10	83%	0.001 J	0.0031			
	MW-D6	12	9	75%	0.0011 J	<0.0025			
	MW-D7	12	10	83%	0.001 J	<0.0025			
	MW-D8	12	9	75%	0.00098 JB	0.0034			
	MW-D9	12	9	75%	0.00084 JB	0.0039			
	MW-U2	12	4	33%	0.0011 J	0.0026	0.0026		
Thallium [mg/L]	MW-D4	11	11	100%	<0.0005	<0.001		0.002	0.002
	MW-D5	11	11	100%	<0.0005	<0.001			
	MW-D6	11	11	100%	<0.0005	<0.001			
	MW-D7	11	11	100%	<0.0005	<0.001			
	MW-D8	11	11	100%	<0.0005	<0.001			
	MW-D9	11	11	100%	<0.0005	<0.001			
	MW-U2	11	11	100%	<0.0005	<0.001	0.0005		

**Notes:**

mg/L = milligrams per liter

pCi/L = picocuries per liter

Highlighted cells show the background well (MW-U1 and MW-U2).

J - Result is less than the reporting level but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

**Table 8. Evaluation of SSLs for Appendix IV Constituents  
Crisp County Power Commission  
Plant Crisp Secondary Ash Areas**

Appendix IV to Part 257 - Constituents for Assessment Monitoring	Well ID	Selected Groundwater Protection Standard (GWPS) for the Site (From Table 7)	Lower Confidence Limit if Detected During the October 2024 Monitoring Period	Concentrations in Downgradient Well Show Statistically Significant Level (SSL) Above GWPS?
Antimony [mg/L]	MW-D4	0.006	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Arsenic [mg/L]	MW-D4	0.01	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Barium [mg/L]	MW-D4	2	0.02167	No
	MW-D5		0.025	No
	MW-D6		0.008408	No
	MW-D7		0.077	No
	MW-D8		0.05202	No
	MW-D9		0.03843	No
	MW-U2		Background Well	
Beryllium [mg/L]	MW-D4	0.004	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Cadmium [mg/L]	MW-D4	0.005	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Chromium [mg/L]	MW-D4	0.1	0.0019	No
	MW-D5		0.0025	No
	MW-D6		0.0013	No
	MW-D7		0.0012	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Cobalt [mg/L]	MW-D4	0.006	ND	No
	MW-D5		0.0024	No
	MW-D6		ND	No
	MW-D7		0.00067	No
	MW-D8		0.0021	No
	MW-D9		ND	No
	MW-U2		Background Well	
Fluoride [mg/L]	MW-D4	4	0.12	No
	MW-D5		0.029	No
	MW-D6		0.09	No
	MW-D7		0.071	No
	MW-D8		0.054	No
	MW-D9		0.077	No
	MW-U2		Background Well	
Lead [mg/L]	MW-D4	0.015	ND	No
	MW-D5		0.00095	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Lithium [mg/L]	MW-D4	0.04	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Mercury [mg/L]	MW-D4	0.002	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Molybdenum [mg/L]	MW-D4	0.1	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Radium 226 and 228 228 Combined [pCi/L]	MW-D4	5	0.2991	No
	MW-D5		0.3279	No
	MW-D6		0.2363	No
	MW-D7		0.2821	No
	MW-D8		0.2191	No
	MW-D9		0.1756	No
	MW-U2		Background Well	
Selenium [mg/L]	MW-D4	0.05	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	
Thallium [mg/L]	MW-D4	0.002	ND	No
	MW-D5		ND	No
	MW-D6		ND	No
	MW-D7		ND	No
	MW-D8		ND	No
	MW-D9		ND	No
	MW-U2		Background Well	

**Notes:**  
mg/L = milligrams per liter  
pCi/L = picocuries per liter  
ND = Not Detected  
Highlighted cells show the background well (MW-U1 and MW-U2).



# FIGURES

I:\a-01\prj\GIS\MXD\2023\Annual\_Monitoring\_Report\GW Monitoring Well Location Map\_SAA.mxd 12/23/2024 9:13:52 AM DY

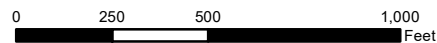


Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from June 2016.



**Legend**

- + Monitoring Well (Secondary Ash Areas)
- Ash Pond Approximate Boundary
- Secondary Ash Areas Approximate Boundary
- Approximate CCPC Property Boundary



**Groundwater Monitoring Well Location Map**

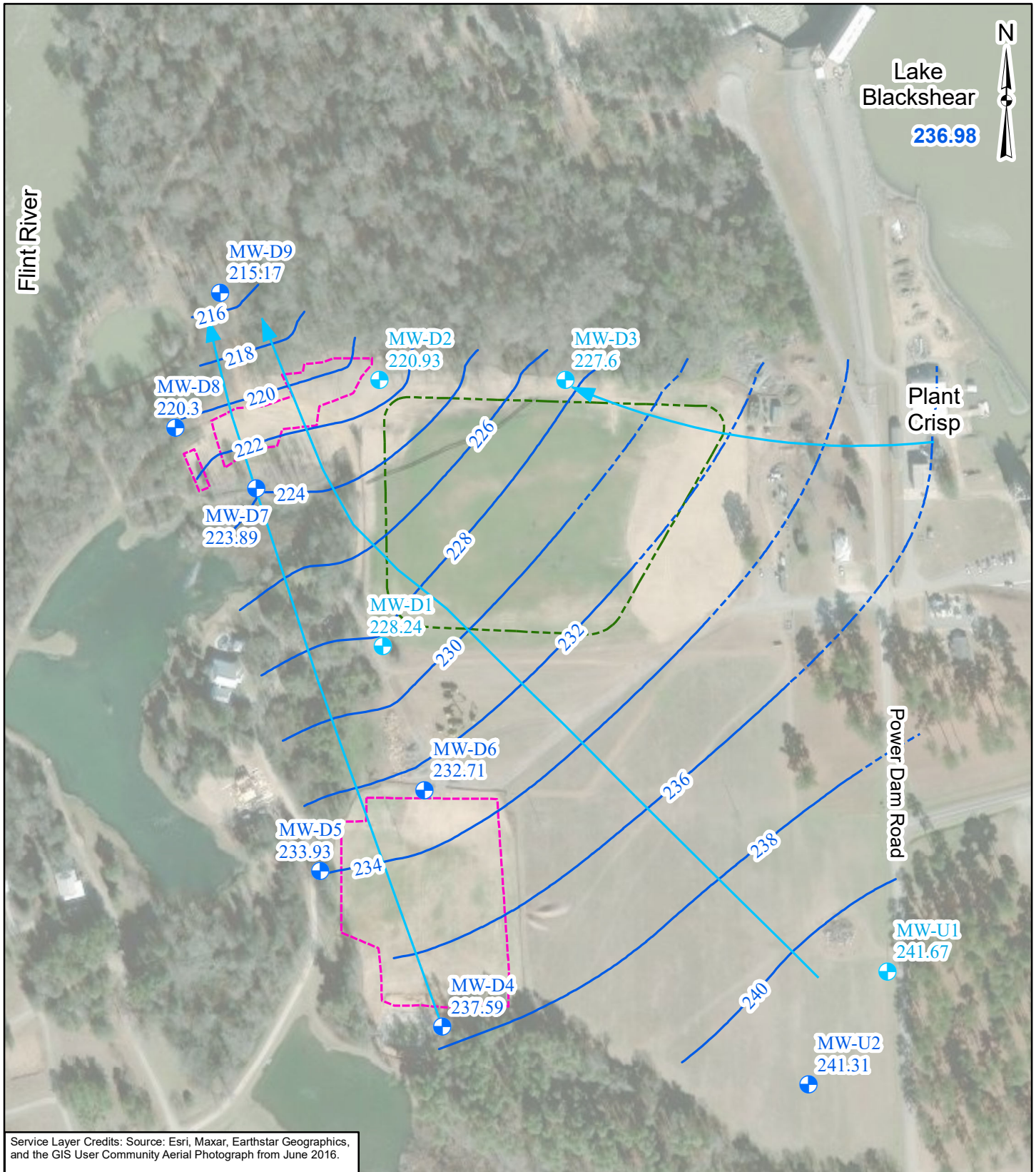
Crisp County Power Commission  
Warwick, Georgia

**Geosyntec**  
consultants

KENNESAW, GA

DATE:	JANUARY 2025
PROJECT NO.	GW6152
DOCUMENT NO.	GA 240383
FILE NO.	FIGURE 1 GROUNDWATER MONITORING WELL LOCATION MAP.MXD
FIGURE NO.	1

\\a-no-01\proj\GIS\MXD\2024\April\_2024\_Potentiometric Surface Map.mxd 7/16/2024 8:11:30 AM



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from June 2016.

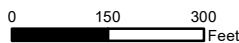
**STAMP**

Dawit Yifru  
PG001965

**Legend**

- Monitoring Well (Ash Pond)
- Monitoring Well (Secondary Ash Areas)
- Groundwater Elevation Contour - 23 April 2024 (ft, MSL) (dashed where inferred)
- Groundwater Flow Direction
- Secondary Ash Area Approximate Boundary
- Ash Pond Approximate Boundary

Note: MW-U1 serves as background monitoring well for the ash pond and secondary ash areas.



**Potentiometric Surface Map (April 2024)**

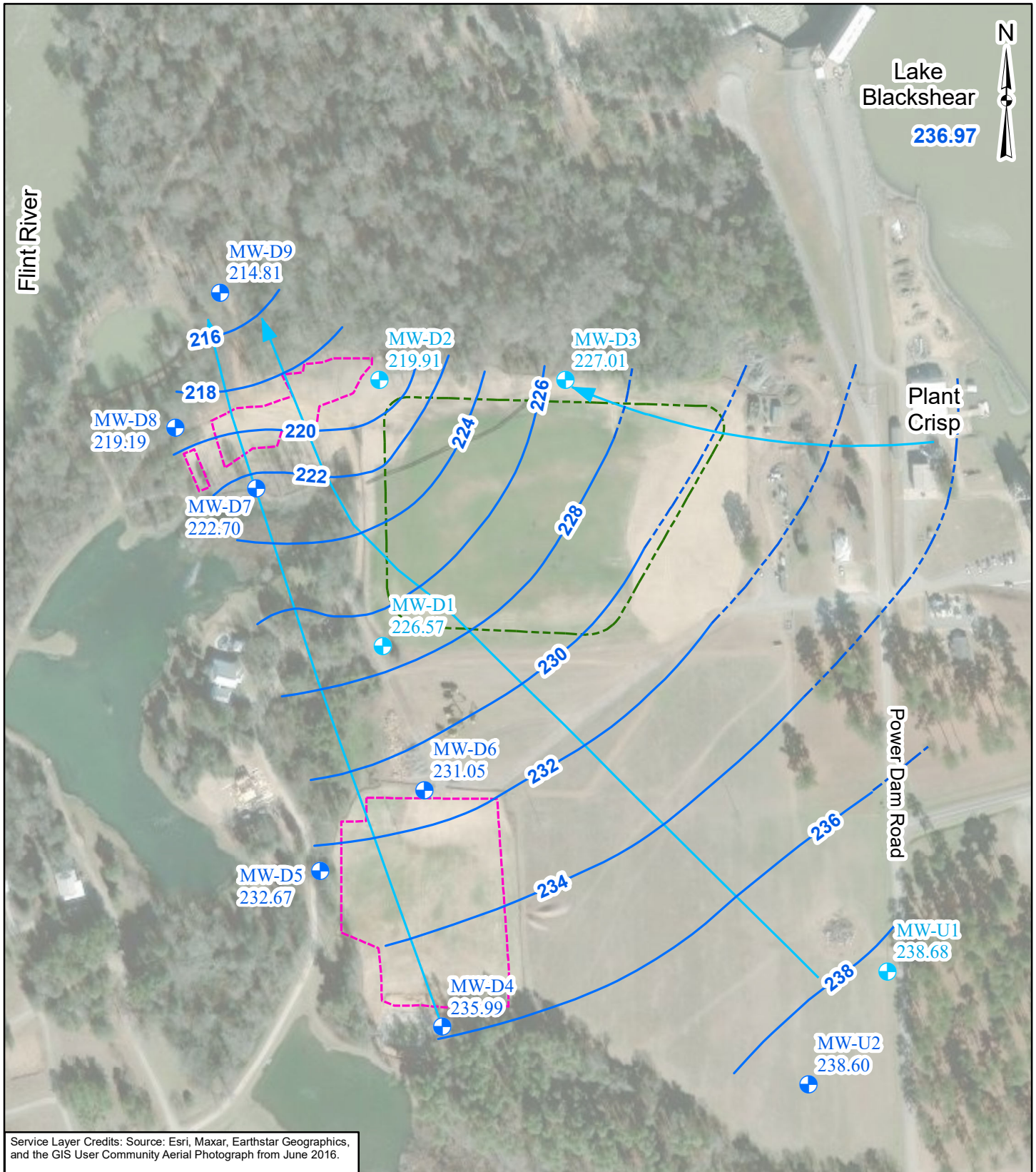
Crisp County Power Commission  
Warwick, Georgia

**Geosyntec**  
consultants

KENNESAW, GA

DATE:	JANUARY 2025
PROJECT NO.	GW6152
DOCUMENT NO.	GA 240383
FILE NO.	FIGURE 2 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	2

\\a-no-01\p\c\crisp\GIS\MXD\2024\10\October\_2024\_Potentiometric Surface Map.mxd 12/23/2024 9:09:20 AM



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from June 2016.

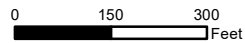
**STAMP**

Dawit Yifru  
PG001965

**Legend**

- Monitoring Well (Ash Pond)
- Monitoring Well (Secondary Ash Areas)
- Groundwater Elevation Contour - 16 October 2024 (ft, MSL) (dashed where inferred)
- Groundwater Flow Direction
- Secondary Ash Area Approximate Boundary
- Ash Pond Approximate Boundary

Note: MW-U1 serves as background monitoring well for the ash pond and secondary ash areas.



**Potentiometric Surface Map (October 2024)**  
Crisp County Power Commission  
Warwick, Georgia

**Geosyntec** consultants  
KENNESAW, GA

DATE:	JANUARY 2025
PROJECT NO.	GW6152
DOCUMENT NO.	GA 240383
FILE NO.	FIGURE 2 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	3

# APPENDIX A

## Field Groundwater Sampling Forms

April 2024

**Water Level Measurement Form**

<b>Site Name:</b> <u>Crisp County Power</u>	<b>Sampling Person:</b>
<b>Location:</b> <u>Warwick, Georgia</u>	<b>Field Conditions:</b>
<b>Date:</b> <u>4/23/2024</u>	

Well ID	Time	TOC Elevation	Depth to Water (ft BTOC)	Well Depth (ft BTOC)	GW Elevation	Field Observations
MW-U1		249.52	7.85	36.99	241.67	
MW-U2		248.79	7.48	30.85	241.31	
MW-D1		241.77	13.53	22.86	228.24	
MW-D2		232.66	11.73	22.6	220.93	
MW-D3		233.78	6.18	22.7	227.6	
MW-D4		246.51	8.92	29.54	237.59	
MW-D5		241.16	7.23	35.85	233.93	
MW-D6		252.63	19.92	37.03	232.71	
MW-D7		230.18	6.29	27.37	223.89	
MW-D8		226.76	6.46	27.86	220.3	
MW-D9		221.42	6.25	27.23	215.17	

TOC = Top of casing

BTOC = Below top of casing

# Low-Flow Test Report:

Test Date / Time: 4/23/2024 12:07:17 PM

Project: CCPC

Operator Name: Zain W.

<b>Location Name: MW-U1</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 7.85 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 28.75 ft</b> <b>Estimated Total Volume Pumped: 5 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 0.49 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 965586</b>
--	---	--

## Test Notes:

Appendix III and IV

## Weather Conditions:

Clear, 80 degrees F.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 12:07 PM	00:00	7.90 pH	21.55 °C	194.28 µS/cm	7.07 mg/L	0.40 NTU	42.6 mV	8.34 ft	250.00 ml/min
4/23/2024 12:12 PM	05:00	7.92 pH	21.54 °C	186.96 µS/cm	7.05 mg/L	0.27 NTU	41.1 mV	8.34 ft	250.00 ml/min
4/23/2024 12:17 PM	10:00	7.92 pH	21.55 °C	186.30 µS/cm	7.04 mg/L	0.16 NTU	42.7 mV	8.34 ft	250.00 ml/min
4/23/2024 12:22 PM	15:00	7.92 pH	21.62 °C	186.05 µS/cm	7.01 mg/L	0.23 NTU	43.8 mV	8.34 ft	250.00 ml/min

## Samples

Sample ID:	Description:
MW-U1-20240423	Grab.



# Low-Flow Test Report:

Test Date / Time: 4/23/2024 12:01:43 PM

Project: CCPC

Operator Name: Tristan H.

<b>Location Name: MW-U2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 7.45 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 25.75 ft</b> <b>Estimated Total Volume Pumped: 7.4 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 2.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
--	---	--

## Test Notes:

Appendix III and IV

## Weather Conditions:

Sunny, 80 degrees F.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5%	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 12:01 PM	00:00	6.37 pH	22.75 °C	110.55 µS/cm	8.86 mg/L	0.76 NTU	87.9 mV	8.42 ft	200.00 ml/min
4/23/2024 12:06 PM	05:00	6.89 pH	19.62 °C	112.99 µS/cm	8.99 mg/L	0.71 NTU	67.4 mV	8.73 ft	200.00 ml/min
4/23/2024 12:11 PM	10:00	7.10 pH	19.42 °C	112.32 µS/cm	8.92 mg/L	0.00 NTU	61.9 mV	9.10 ft	200.00 ml/min
4/23/2024 12:16 PM	15:00	7.22 pH	19.34 °C	111.10 µS/cm	8.85 mg/L	0.18 NTU	59.4 mV	9.30 ft	200.00 ml/min
4/23/2024 12:21 PM	20:00	7.30 pH	19.40 °C	109.84 µS/cm	8.80 mg/L	0.05 NTU	58.9 mV	9.40 ft	200.00 ml/min
4/23/2024 12:26 PM	25:00	7.34 pH	19.47 °C	109.14 µS/cm	8.80 mg/L	0.00 NTU	58.0 mV	9.45 ft	200.00 ml/min
4/23/2024 12:31 PM	30:00	7.37 pH	19.47 °C	105.96 µS/cm	8.76 mg/L	0.08 NTU	57.7 mV	9.50 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-U2-20240423	Grab.

# Low-Flow Test Report:

Test Date / Time: 4/24/2024 8:58:14 AM

Project: CCPC

Operator Name: Zain W.

<b>Location Name: MW-D4</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 8.94 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 22.75 ft</b> <b>Estimated Total Volume Pumped: 5.0 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min</b> <b>Final Draw Down: 4.37 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 965586</b>
--	---	--

## Test Notes:

Appendix III and IV

## Weather Conditions:

Clear, 70 degrees F.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/24/2024 8:58 AM	00:00	7.35 pH	17.74 °C	254.38 µS/cm	3.22 mg/L	0.49 NTU	81.0 mV	10.43 ft	250.00 ml/min
4/24/2024 9:03 AM	05:00	7.35 pH	17.74 °C	251.17 µS/cm	3.15 mg/L	0.34 NTU	62.1 mV	11.75 ft	250.00 ml/min
4/24/2024 9:08 AM	10:00	7.35 pH	17.78 °C	250.86 µS/cm	3.10 mg/L	0.31 NTU	55.5 mV	12.68 ft	250.00 ml/min
4/24/2024 9:13 AM	15:00	7.36 pH	17.83 °C	249.78 µS/cm	3.08 mg/L	0.26 NTU	51.8 mV	13.31 ft	250.00 ml/min

## Samples

Sample ID:	Description:
MW-D4-20240424	Grab.

# Low-Flow Test Report:

Test Date / Time: 4/24/2024 8:46:43 AM

Project: CCPC

Operator Name: Tristan H.

<b>Location Name: MW-D5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 7.3 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 31.0 ft</b> <b>Estimated Total Volume Pumped: 6.6 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.59 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
---	--	--

## Test Notes:

Appendix III and IV

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/24/2024 8:46 AM	00:00	6.47 pH	17.42 °C	192.87 µS/cm	6.90 mg/L	2.42 NTU	70.9 mV	7.74 ft	200.00 ml/min
4/24/2024 8:51 AM	05:00	6.67 pH	17.60 °C	192.95 µS/cm	6.61 mg/L	1.67 NTU	83.7 mV	7.86 ft	200.00 ml/min
4/24/2024 8:56 AM	10:00	6.72 pH	17.64 °C	173.70 µS/cm	6.61 mg/L	1.40 NTU	83.9 mV	7.88 ft	200.00 ml/min
4/24/2024 9:01 AM	15:00	6.74 pH	18.06 °C	191.28 µS/cm	6.43 mg/L	0.92 NTU	66.9 mV	7.89 ft	200.00 ml/min
4/24/2024 9:06 AM	20:00	6.75 pH	18.09 °C	192.03 µS/cm	6.49 mg/L	0.78 NTU	65.2 mV	7.89 ft	200.00 ml/min
4/24/2024 9:11 AM	25:00	6.76 pH	17.95 °C	192.69 µS/cm	6.54 mg/L	0.70 NTU	79.4 mV	7.89 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-D5-20240424	Grab.

# Low-Flow Test Report:

Test Date / Time: 4/23/2024 3:30:53 PM

Project: CCPC

Operator Name: Zain W.

<b>Location Name: MW-D6</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 19.98 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 29.25 ft</b> <b>Estimated Total Volume Pumped: 5.0 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 250 ml/min Final Draw Down: 0.42 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 965586</b>
---	---	--

## Test Notes:

Appendix III and IV

## Weather Conditions:

Clear, 80 degrees F.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/23/2024 3:30 PM	00:00	7.97 pH	21.81 °C	203.14 µS/cm	7.16 mg/L	0.28 NTU	73.6 mV	20.40 ft	250.00 ml/min
4/23/2024 3:35 PM	05:00	8.03 pH	21.80 °C	202.96 µS/cm	7.12 mg/L	0.13 NTU	64.1 mV	20.40 ft	250.00 ml/min
4/23/2024 3:40 PM	10:00	8.04 pH	21.74 °C	200.62 µS/cm	7.06 mg/L	0.17 NTU	80.5 mV	20.40 ft	250.00 ml/min
4/23/2024 3:45 PM	15:00	8.04 pH	21.75 °C	198.38 µS/cm	7.05 mg/L	0.12 NTU	82.0 mV	20.40 ft	250.00 ml/min

## Samples

Sample ID:	Description:
MW-D6-20240423	Grab.

# Low-Flow Test Report:

Test Date / Time: 4/24/2024 11:50:01 AM

Project: CCPC

Operator Name: Tristan H.

<b>Location Name: MW-D7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 6.35 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 22.4 ft</b> <b>Estimated Total Volume Pumped: 4.6 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 3.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
--	--	--

## Test Notes:

Appendix III and IV

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/24/2024 11:50 AM	00:00	7.35 pH	24.29 °C	349.36 µS/cm	0.49 mg/L	0.03 NTU	17.9 mV	7.45 ft	200.00 ml/min
4/24/2024 11:55 AM	05:00	7.37 pH	20.76 °C	372.09 µS/cm	0.25 mg/L	0.51 NTU	1.9 mV	8.21 ft	200.00 ml/min
4/24/2024 12:00 PM	10:00	7.37 pH	20.47 °C	372.94 µS/cm	0.13 mg/L	0.63 NTU	7.6 mV	8.90 ft	200.00 ml/min
4/24/2024 12:05 PM	15:00	7.36 pH	20.25 °C	374.29 µS/cm	0.08 mg/L	0.00 NTU	-2.9 mV	9.40 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-D7-20240424	Grab.

# Low-Flow Test Report:

Test Date / Time: 4/24/2024 10:23:25 AM

Project: CCPC

Operator Name: Tristan H.

<b>Location Name: MW-D8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 6.52 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 23.0 ft</b> <b>Estimated Total Volume Pumped: 4.6 liters</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 3.13 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884187</b>
--	--	--

## Test Notes:

Appendix III and IV

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/24/2024 10:23 AM	00:00	7.24 pH	19.53 °C	402.02 µS/cm	0.45 mg/L	3.97 NTU	87.9 mV	7.67 ft	200.00 ml/min
4/24/2024 10:28 AM	05:00	7.27 pH	18.55 °C	408.22 µS/cm	0.25 mg/L	5.05 NTU	48.7 mV	8.68 ft	200.00 ml/min
4/24/2024 10:33 AM	10:00	7.27 pH	18.22 °C	411.68 µS/cm	0.18 mg/L	3.26 NTU	38.6 mV	9.25 ft	200.00 ml/min
4/24/2024 10:38 AM	15:00	7.27 pH	18.23 °C	412.60 µS/cm	0.12 mg/L	3.44 NTU	34.7 mV	9.65 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-D8-20240424	Grab and DUP-11-20240424.

# Low-Flow Test Report:

Test Date / Time: 4/24/2024 10:47:48 AM

Project: CCPC

Operator Name: Zain W.

<b>Location Name: MW-D9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Initial Depth to Water: 6.27 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: LDPE</b> <b>Pump Intake From TOC: 19.8 ft</b> <b>Estimated Total Volume Pumped: 2.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min Final Draw Down: 4.87 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 965586</b>
--	---	--

## Test Notes:

Appendix III and IV

## Weather Conditions:

Clear, 70 degrees F.

## Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/24/2024 10:47 AM	00:00	7.58 pH	18.21 °C	282.54 µS/cm	0.28 mg/L	0.88 NTU	-83.3 mV	8.31 ft	100.00 ml/min
4/24/2024 10:52 AM	05:00	7.59 pH	17.89 °C	280.68 µS/cm	0.20 mg/L	0.95 NTU	-115.7 mV	8.96 ft	100.00 ml/min
4/24/2024 10:57 AM	10:00	7.60 pH	17.72 °C	280.51 µS/cm	0.17 mg/L	0.63 NTU	-87.4 mV	9.83 ft	100.00 ml/min
4/24/2024 11:02 AM	15:00	7.60 pH	17.68 °C	279.77 µS/cm	0.14 mg/L	0.49 NTU	-89.1 mV	10.58 ft	100.00 ml/min
4/24/2024 11:07 AM	20:00	7.60 pH	17.72 °C	281.14 µS/cm	0.13 mg/L	0.36 NTU	-90.5 mV	11.14 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MW-D9-20240424	Grab.

October 2024





**EQUIPMENT CALIBRATION LOG**

Field Technician Zan Webb

Date 10-16-24

Time (start) 10:30

Time (finish) 11:01

Smartroll SN 883530

Turbidity Meter Type LaMotte 2020

SN 1571-3019

Weather Conditions Clear, 60°F

Facility and Unit CCPC

Project No GW8836

**Calibration log**

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	24010943 05/2025	15.85	4490	<del>4413.8</del> 4060.0	4490.0	± 5%	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)			4.00	3.95	4.00	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	—	—	4.00	—	—	± 0.1 SU	Yes <input type="radio"/> No	
pH (7)	24008587 06/2025	15.49	7.00	6.81	7.00	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			—	—	7.00	—	—	± 0.1 SU
pH (10)	24004996 06/2025	15.77	10.00	9.76	10.00	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			—	—	10.00	—	—	± 0.1 SU
ORP (mV)	24011792 06/2025	15.78	228	242.2	228.0	± 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	101.76%	100%	± 5% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0	0	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.94	1.00	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	10.51	10.00	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: D. Genc

Date: 10/16/2024

Time (start): 1045

Time (finish): 1115

Smartroll SN: 851413

Turbidity Meter Type: LaMotte 2020we

SN: 1596-3019

Weather Conditions: Sunny

Facility and Unit: CCPC

Project No.: GW8836

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	#24010943 05/2025	21.52	4490	4726.7	-	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)			4.00	4.21	4.02	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	Yes <input type="radio"/> No <input type="radio"/>	
pH (7)	#24008587 06/2025	21.90	7.00	6.94	-	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes <input type="radio"/> No <input type="radio"/>	
pH (10)	#24004996 06/2025	21.55	10.00	9.80	10.07	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes <input type="radio"/> No <input type="radio"/>	
ORP (mV)	#24011792 06/2025	21.33	228	226.3	-	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	107.02	100.54	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	-0.23	-	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	3.25	2.07	+/- 0.5 NTU	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Turbidity 10 NTU			10.00	8.80	9.61	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

**EQUIPMENT CALIBRATION LOG**

Field Technician Zain Webb

Date 10-17-24

Time (start) 0740

Time (finish) 0805

Smartroll SN 883530

Turbidity Meter Type LaMotte 2020

SN 1571-3019

Weather Conditions Clear, 60°F

Facility and Unit CCPC

Project No GW8836

**Calibration log**

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	24010943	12.22	4490	4669.9	4490.0	±0.5%	Yes No	
pH (4)	05/2025		4.00	3.95	4.00	±0.1 SU	Yes No	
Mid-Day pH (4) check	—	—	4.00	—	—	±0.1 SU	Yes No	
pH (7)	24008587 06/2025	13.68	7.00	7.00	7.00	±0.1 SU	Yes No	
Mid-Day pH (7) check	—		—	7.00	—	—	±0.1 SU	Yes No
pH (10)	24004996 06/2025	14.18	10.00	10.09	10.00	±0.1 SU	Yes No	
Mid-Day pH (10) check	—		—	10.00	—	—	±0.1 SU	Yes No
ORP (mV)	24011792 06/2025	14.16	228	231.0	228.0	±20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	93.78	100%	±0.5% saturation	Yes No	
Turbidity 0 NTU			0	0	0	±0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.00	1.00	±0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.07	10.00	±0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: D. Ganc

Date: 10/17/2024

Time (start): 0730

Time (finish): 0800

smarTroll SN: 851413

Turbidity Meter Type: LaMotte 2020we

SN: 1596-3019

Weather Conditions: Cloudy

Facility and Unit: CCPC

Project No.: GW8836

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	#24010943 05/2025	12.30	4490	5053.9	4490.8	+/- 5%	<input checked="" type="radio"/> Yes No	
pH (4)			4.00	4.06	-	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	Yes No	
pH (7)	#24008587 06/2025	12.90	7.00	5.45	6.98	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No	
pH (10)	#24004996 06/2025	12.70	10.00	8.74	10.02	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No	
ORP (mV)	#24011792 06/2025	12.90	228	243.2	228.1	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	96.03	100.25	+/- 6% saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	-0.16	-	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.29	-	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	6.97	10.18	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-u1</b>	SAMPLE ID: <b>MW-u1-20241016</b>
DATE: <b>10-16-24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: <b>37.35</b> feet to <b>37.35</b> feet	STATIC DEPTH TO WATER (feet): <b>10.84</b>	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: <b>1</b> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>37.35</b> feet - <b>10.84</b> feet ) X <b>0.16</b> gallons/foot = <b>4.24</b> gallons				
EQUIPMENT VOLUME PURGE: <b>1</b> EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + ( _____ gallons/foot X _____ feet ) + _____ gallons = _____ gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	<b>32.35</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	<b>32.35</b>	PURGING INITIATED AT:	<b>1142</b>	PURGING ENDED AT:	<b>1212</b>	TOTAL VOLUME PURGED (gallons):	<b>7.0</b>
--	--------------	--	--------------	-----------------------	-------------	-------------------	-------------	--------------------------------	------------

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1142	1.0	1.0	200.00	10.84	7.92	22.67	198.65	6.78	2.27	146.6	Clear
1147	1.0	2.0	200.00	11.45	7.92	22.53	192.95	6.77	1.91	460.6	
1152	1.0	3.0	200.00	11.45	7.93	22.29	191.56	6.78	1.23	500.5	
1157	1.0	4.0	200.00	11.45	7.93	22.27	190.27	6.76	1.09	531.3	
1202	1.0	5.0	200.00	11.45	7.94	22.36	189.39	6.75	0.84	555.5	
1207	1.0	6.0	200.00	11.45	7.94	22.49	189.36	6.76	0.88	574.7	
1212	1.0	7.0	200.00	11.45	7.95	22.45	188.38	6.72	0.86	595.7	
ZW 10-16-24											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Zain Webb / Geosyntec</i>	SAMPLER(S) SIGNATURE(S): <i>Zain Webb</i>	SAMPLING INITIATED AT: <b>1217</b>	SAMPLING ENDED AT: <b>1242</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>32.35</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)	TUBING Y <input checked="" type="checkbox"/> (N (replaced))	DUPLICATE: Y <input checked="" type="checkbox"/> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-u1-20241016	1	HDPE	1.9L	HNO3	----	7.95	9315, 9320, Ra226, Ra228	APP	250
↓	1	HDPE	1.0L	NONE	----	7.95	SM4500, 2540C	APP	250
↓	1	HDPE	0.25L	HNO3	----	7.95	6020, 7470A	APP	250

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present:  Yes  No
- Well Access: open
- Sampling & Purging Equipment Condition: good
- Site Condition that may Affect Sampling Present?  Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units **Specific Conductance:** ± 5% **Dissolved Oxygen:** 0.2 mg/L or 10% change in saturation (whichever is greater) **Turbidity:** readings ≤ 10 NTU; **ORP:** ± 20 mV.

TD = 37.40 ft

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-42</b>	SAMPLE ID: <b>MW-u2-20241016</b>
DATE: <b>10/16/24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>10.18</b>	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>30.92</b> feet - <b>10.18</b> feet ) X <b>0.16</b> gallons/foot = <b>3.32</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + ( gallons/foot X feet ) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>25.75</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>25.75</b>	PURGING INITIATED AT: <b>1215</b>	PURGING ENDED AT: <b>1255</b>	TOTAL VOLUME PURGED (gallons): <b>4</b>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1215	Start	purging									
1220	1	1	200	11.88	7.29	24.04	107.11	6.41	0.13	91.5	Clear
1225	1	2	200	11.99	7.18	23.57	108.83	7.00	0.04	89.5	"
1230	1	3	200	12.02	7.21	23.50	112.06	7.34	0.01	84.4	"
1235	1	4	200	12.08	7.22	23.41	113.12	7.40	-0.08	84.0	"
DG											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>D. Gene</b>				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: <b>1235</b>		SAMPLING ENDED AT: <b>1255</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>25.75</b>				TUBING MATERIAL CODE: <b>LDPE</b>				FIELD-FILTERED: Y <b>(N)</b>		FILTER SIZE: <b>2</b> μm	
FIELD DECONTAMINATION: PUMP Y <b>(N)</b>				TUBING Y <b>(replaced)</b>				DUPLICATE: Y <b>(N)</b>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-42-20241016	1	HDPE	1.9L	HNO3	----	7.22	9315, 9320, Ra226, Ra228	APP	250
↓	1	HDPE	1.0L	NONE	----	7.22	SM4500, 2540C	APP	250
↓	1	HDPE	0.25L	HNO3	----	7.22	6020, 7470A	APP	250

### FIELD SAMPLING CONDITIONS:

1. Well Sign Present:  Yes  No
2. Well Access: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present?  Yes (describe below)  No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)

pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D4</b>	SAMPLE ID: <b>MW-D4-20241017</b>
DATE: <b>10/17/2024</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>10.55</b>	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>29.86</b> feet - <b>10.55</b> feet ) X <b>0.16</b> gallons/foot = <b>3.09</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + ( _____ gallons/foot X _____ feet ) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>22.75</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>22.75</b>	PURGING INITIATED AT: <b>0845</b>	PURGING ENDED AT: <b>1015</b>	TOTAL VOLUME PURGED (gallons): <b>6</b>

TIME	VOLUME PURGED (gallons) <sup>DG</sup>	CUMUL. VOLUME PURGED (gallons) <sup>DG</sup>	PURGE RATE (gpm) <sup>DG</sup> ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
<b>0845</b>	<b>start purging</b>										
<b>0850</b>	<b>1</b>	<b>1</b>	<b>200</b>	<b>12.23</b>	<b>8.78</b>	<b>18.52</b>	<b>207.11</b>	<b>1.81</b>	<b>0.90</b>	<b>79.5</b>	<b>clear</b>
<b>0855</b>	<b>1</b>	<b>2</b>	<b>200</b>	<b>12.86</b>	<b>8.67</b>	<b>18.58</b>	<b>215.44</b>	<b>1.90</b>	<b>0.50</b>	<b>59.1</b>	<b>"</b>
<b>0900</b>	<b>1</b>	<b>3</b>	<b>200</b>	<b>13.37</b>	<b>8.64</b>	<b>18.66</b>	<b>233.56</b>	<b>1.92</b>	<b>-0.08</b>	<b>54.2</b>	<b>"</b>
<b>0905</b>	<b>1</b>	<b>4</b>	<b>200</b>	<b>13.75</b>	<b>8.69</b>	<b>18.39</b>	<b>253.40</b>	<b>1.80</b>	<b>0.20</b>	<b>47.6</b>	<b>"</b>
<b>0910</b>	<b>1</b>	<b>5</b>	<b>200</b>	<b>13.98</b>	<b>8.72</b>	<b>18.39</b>	<b>257.86</b>	<b>1.71</b>	<b>0.08</b>	<b>56.8</b>	<b>"</b>
<b>0915</b>	<b>1</b>	<b>6</b>	<b>200</b>	<b>14.23</b>	<b>8.74</b>	<b>18.36</b>	<b>263.06</b>	<b>1.68</b>	<b>-0.09</b>	<b>42.7</b>	<b>"</b>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>D. Gene</b>			SAMPLER(S) SIGNATURE(S): <i>DJG</i>			SAMPLING INITIATED AT: <b>0915</b>		SAMPLING ENDED AT: <b>1015</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>22.75</b>			TUBING MATERIAL CODE: <b>LDPE</b>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>			DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-D4-20241017</b>	<b>1</b>	<b>HDPE</b>	<b>1.9L</b>	<b>HNO3</b>	<b>----</b>	<b>8.74</b>	<b>9315, 9320, Ra226, Ra228</b>	<b>APP</b>	<b>250</b>
<b>↓</b>	<b>1</b>	<b>HDPE</b>	<b>1.0L</b>	<b>NONE</b>	<b>----</b>	<b>8.74</b>	<b>SM4500, 2540C</b>	<b>APP</b>	<b>250</b>
<b>↓</b>	<b>1</b>	<b>HDPE</b>	<b>0.25L</b>	<b>HNO3</b>	<b>----</b>	<b>8.74</b>	<b>6020, 7470A</b>	<b>APP</b>	<b>250</b>

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present:  Yes  No
- Well Access: Good
- Sampling & Purging Equipment Condition: Good
- Site Condition that may Affect Sampling Present?  Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **STABILIZATION CRITERIA** FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.



# GROUNDWATER SAMPLING LOG

Pg 1 of 3

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D5</b>	SAMPLE ID: <b>MW-D5-20241017</b>
DATE: <b>10-17-24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>8.51</b>	PURGE PUMP TYPE OR BAILER: <b>BP</b>
WELL VOLUME PURGE: <b>1</b> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <b>(36.03 feet - 8.51 feet) X 0.16 gallons/foot = 4.40 gallons</b>				
EQUIPMENT VOLUME PURGE: <b>1</b> EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + ( _____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>27</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>29</b>	PURGING INITIATED AT: <b>1038</b>	PURGING ENDED AT: <b>1243</b>	TOTAL VOLUME PURGED (gallons): <b>26.0</b>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1038	1.0	1.0	200	8.51	7.09	19.68	221.60	5.91	351	267.4	<i>Clear Cloudy</i>
1043	1.0	2.0	200	8.46	6.99	19.94	226.75	5.83	201	580.9	
1048	1.0	3.0	200	9.28	6.98	20.00	229.01	5.61	189	544.2	
1053	1.0	4.0	200	9.30	6.96	19.97	227.94	5.57	121	624.6	
1058	1.0	5.0	200	9.31	6.95	20.00	227.94	5.54	90.4	569.2	
1103	1.0	6.0	200	9.31	6.92	20.02	226.23	5.53	94.3	579.3	
1108	1.6	7.0	200	9.31	6.92	19.98	226.66	5.53	84.9	586.7	
1113	1.0	8.0	200	9.32	6.92	19.97	226.45	5.54	49.7	573.7	
1118	1.0	9.0	200	9.32	6.90	19.97	224.32	5.54	42.1	576.3	
1123	1.0	10.0	200	9.32	6.90	20.00	224.38	5.53	37.2	607.7	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Zain Webb / Geosyntec</i>	SAMPLER(S) SIGNATURE(S): <i>Zain Webb</i>	SAMPLING INITIATED AT: <b>1248</b>	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): <b>29</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> <b>(N)</b>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> <b>(N)</b>	TUBING Y <input checked="" type="checkbox"/> <b>(N (replaced))</b>	DUPLICATE: Y <input checked="" type="checkbox"/> <b>(N)</b>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<i>MW-D5-20241017</i>	<b>1</b>	<b>HDPE</b>	<b>1.9L</b>	<b>HNO3</b>	----	<b>6.85</b>	<b>9315, 9320, Ra226, Ra228</b>	<b>APP</b>	<b>250</b>
↓	<b>1</b>	<b>HDPE</b>	<b>1.0L</b>	<b>NONE</b>	----	<b>6.85</b>	<b>SM4500, 2540C</b>	<b>APP</b>	<b>250</b>
↓	<b>1</b>	<b>HDPE</b>	<b>0.25L</b>	<b>HNO3</b>	----	<b>6.85</b>	<b>6020, 7470A</b>	<b>APP</b>	<b>250</b>

FIELD SAMPLING CONDITIONS:  
 1. Well Sign Present:  Yes  No  
 2. Well Access: *good thru open*  
 3. Sampling & Purging Equipment Condition: *good*  
 4. Site Condition that may Affect Sampling Present?  Yes (describe below)  No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

# GROUNDWATER SAMPLING LOG

Pg 2 of 3

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D5</b>	SAMPLE ID: <b>MW-D5-20241017</b>
DATE: <b>10-17-24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>8.51</b>	PURGE PUMP TYPE OR BAILER: <b>BP</b>
WELL VOLUME PURGE: <b>1</b> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <b>(36.03 feet - 8.51 feet) X 0.16 gallons/foot = 4.40 gallons</b>				
EQUIPMENT VOLUME PURGE: <b>1</b> EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>27</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>29</b>	PURGING INITIATED AT: <b>1038</b>	PURGING ENDED AT: <b>1243</b>	TOTAL VOLUME PURGED (gallons): <b>26.0</b>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1128	1.0	11.0	200	9.32	6.89	20.00	224.07	5.53	31.5	613.4	Clear
1133	1.0	12.0	200	9.32	6.89	20.00	223.41	5.51	30.3	618.9	
1138	1.0	13.0	200	9.32	6.88	20.04	222.77	5.50	29.0	624.5	
1143	1.0	14.0	200	9.32	6.88	19.98	223.29	5.53	28.5	712.8	
1148	1.0	15.0	200	9.32	6.87	20.00	222.83	5.52	27.4	719.9	
1153	1.0	16.0	200	9.32	6.88	20.00	223.10	5.52	26.8	641.4	
1158	1.0	17.0	200	9.32	6.87	19.95	222.13	5.50	26.2	731.2	
1203	1.0	18.0	200	9.32	6.86	19.95	220.41	5.51	25.7	648.7	
1208	1.0	19.0	200	9.32	6.86	19.98	219.56	5.51	28.8	652.6	
1213	1.0	20.0	200	9.32	6.84	19.95	219.41	5.50	29.3	657.2	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Zain Webb / Geosyntec</i>	SAMPLER(S) SIGNATURE(S): <i>Zain Webb</i>	SAMPLING INITIATED AT: <b>1248</b>	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): <b>29</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: <b>—</b> μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-D5-20241017	1	HDPE	1.9L	HNO3	----	6.85	9315, 9320, Ra226, Ra228	APP	250
↓	1	HDPE	1.0L	NONE	----	6.85	SM4500, 2540C	APP	250
↓	1	HDPE	0.25L	HNO3	----	6.85	6020, 7470A	APP	250

**FIELD SAMPLING CONDITIONS:**

1. Well Sign Present:  Yes  No
2. Well Access: open
3. Sampling & Purging Equipment Condition: good
4. Site Condition that may Affect Sampling Present?  Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

# GROUNDWATER SAMPLING LOG

Pg 3 of 3

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-DS</b>	SAMPLE ID: <b>MW-DS-20241017</b>
DATE: <b>10-17-24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>8.51</b>	PURGE PUMP TYPE OR BAILER: <b>BP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>36.03</b> feet - <b>8.51</b> feet ) X <b>0.16</b> gallons/foot = <b>4.40</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + ( gallons/foot X feet ) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	27	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	29	PURGING INITIATED AT:	1038	PURGING ENDED AT:	1243	TOTAL VOLUME PURGED (gallons):	26.0
--	----	--	----	-----------------------	------	-------------------	------	--------------------------------	------

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1218	1.0	21.0	200	9.32	6.85	20.03	219.65	5.51	28.2	659.7	
1223	1.0	22.0	200	9.32	6.85	19.99	219.63	5.51	26.9	662.5	
1228	1.0	23.0	200	9.32	6.85	20.00	219.60	5.51	28.5	665.4	
1233	1.0	24.0	200	9.32	6.85	19.99	219.69	5.46	26.8	668.7	
1238	1.0	25.0	200	9.32	6.85	19.95	219.81	5.52	25.7	671.8	
1243	1.0	26.0	200	9.32	6.85	19.97	219.39	5.60	26.5	768.6	
Zw 10-17-24											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Zain Webb / Geosyntec</i>	SAMPLER(S) SIGNATURE(S): <i>Zain Webb</i>	SAMPLING INITIATED AT: <b>1248</b>	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): <b>29</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: <u>    </u> μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> <i>(replaced)</i>	DUPLICATE: Y <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-DS-20241017	1	HDPE	1.9L	HNO3	----	6.85	9315, 9320, Ra226, Ra228	APP	250
↓	1	HDPE	1.0L	NONE	----	6.85	SM4500, 2540C	APP	250
↓	1	HDPE	0.25L	HNO3	----	6.85	6020, 7470A	APP	250

### FIELD SAMPLING CONDITIONS:

1. Well Sign Present:  Yes  No
2. Well Access: open
3. Sampling & Purging Equipment Condition: good
4. Site Condition that may Affect Sampling Present?  Yes (describe below)  No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

### NOTES: 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)

pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

TD = 36.05

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-DG</b>	SAMPLE ID: <b>MW-DG-20241017</b>
DATE: <b>10-17-24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>21.65</b>	PURGE PUMP TYPE OR BAILER: <b>BP</b>
WELL VOLUME PURGE: <b>1</b> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <b>(37.44 feet - 21.65 feet) X 0.16 gallons/foot = 2.53 gallons</b>				
EQUIPMENT VOLUME PURGE: <b>1</b> EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>29.25</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>29.25</b>	PURGING INITIATED AT: <b>0848</b>	PURGING ENDED AT: <b>0918</b>	TOTAL VOLUME PURGED (gallons): <b>3.46</b>
---	---	-----------------------------------	-------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
0848	1.0	1.0	200	21.65	7.99	20.11	215.58	7.85	13.8	181.1	Clear
0853	1.0	2.0	200	21.66	7.94	20.31	215.54	7.80	12.5	423.5	
0858	1.0	3.0	200	21.68	7.93	20.50	215.33	7.69	8.33	388.7	
0903	1.0	4.0	200	21.68	7.93	20.58	212.51	7.63	4.47	402.5	
0908	1.0	5.0	200	21.68	7.93	20.71	210.46	7.59	4.15	413.5	
0913	1.0	6.0	200	21.68	7.93	21.31	208.73	7.51	4.01	427.2	
0918	1.0	7.0	200	21.68	7.93	21.44	207.09	7.44	3.46	514.3	
21.68 10-17-24											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Zain Webb / Geosyntec</b>				SAMPLER(S) SIGNATURE(S): <b>Zain Webb</b>				SAMPLING INITIATED AT: <b>0923</b>		SAMPLING ENDED AT: <b>1005</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>29.25</b>				TUBING MATERIAL CODE: <b>LDPE</b>		FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: <b>—</b> μm			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>				TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-DG-20241017	1	HDPE	1.9L	HNO3	----	7.93	9315, 9320, Ra226, Ra228	APP	250		
↓	1	HDPE	1.0L	NONE	----	7.93	SM4500, 2540C	APP	250		
↓	1	HDPE	0.25L	HNO3	----	7.93	6020, 7470A	APP	250		

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present:  Yes  No
- Well Access: Open
- Sampling & Purging Equipment Condition: good
- Site Condition that may Affect Sampling Present?  Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

TD = 37.44 ft

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D7</b>	SAMPLE ID: <b>MW-D7-20241017</b>
DATE: <b>10/17/2024</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>7.50</b>	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: <b>1</b> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>27.03</b> feet - <b>7.50</b> feet) X <b>0.16</b> gallons/foot = <b>3.13</b> gallons				
EQUIPMENT VOLUME PURGE: <b>1</b> EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + ( gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>22.4</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>22.4</b>	PURGING INITIATED AT: <b>1110</b>	PURGING ENDED AT: <b>1145</b>	TOTAL VOLUME PURGED (gallons): <b>3</b>
--	--	-----------------------------------	-------------------------------	---

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm) or ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
<b>1110</b>	<b>start purging</b>										
<b>1115</b>	<b>1</b>	<b>1</b>	<b>200</b>	<b>9.48</b>	<b>8.53</b>	<b>22.79</b>	<b>347.30</b>	<b>0.20</b>	<b>2.33</b>	<b>-58.2</b>	<b>clear</b>
<b>1120</b>	<b>1</b>	<b>2</b>	<b>200</b>	<b>10.22</b>	<b>8.51</b>	<b>22.93</b>	<b>348.87</b>	<b>0.16</b>	<b>1.80</b>	<b>-56.5</b>	<b>"</b>
<b>1125</b>	<b>1</b>	<b>3</b>	<b>200</b>	<b>10.61</b>	<b>8.51</b>	<b>23.10</b>	<b>350.10</b>	<b>0.15</b>	<b>0.53</b>	<b>-67.2</b>	<b>"</b>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>D. Gene</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>1125</b>	SAMPLING ENDED AT: <b>1145</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>22.4</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: <b>—</b> μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-D7-20241017</b>	<b>1</b>	<b>HDPE</b>	<b>1.9L</b>	<b>HNO3</b>	<b>----</b>	<b>8.51</b>	<b>9315, 9320, Ra226, Ra228</b>	<b>APP</b>	<b>250</b>
<b>↓</b>	<b>1</b>	<b>HDPE</b>	<b>1.0L</b>	<b>NONE</b>	<b>----</b>	<b>8.51</b>	<b>SM4500, 2540C</b>	<b>APP</b>	<b>250</b>
<b>↓</b>	<b>1</b>	<b>HDPE</b>	<b>0.25L</b>	<b>HNO3</b>	<b>----</b>	<b>8.51</b>	<b>6020, 7470A</b>	<b>APP</b>	<b>250</b>

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present: Yes  No
- Well Access: Good
- Sampling & Purging Equipment Condition: Good
- Site Condition that may Affect Sampling Present? Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

# GROUNDWATER SAMPLING LOG

1 of 2

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D8</b>	SAMPLE ID: <b>MW-D8-20241017</b>
DATE: <b>10/17/2024</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>7.50</b>	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>27.68</b> feet - <b>7.50</b> feet ) X <b>0.16</b> gallons/foot = <b>3.23</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + ( gallons/foot X feet ) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>23</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>23</b>	PURGING INITIATED AT: <b>1220</b>	PURGING ENDED AT: <b>1330</b>	TOTAL VOLUME PURGED (gallons): <b>10</b>
--	--	-----------------------------------	-------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1220	start purging										
1225	1	1	200	9.08	8.49	22.92	399.28	0.24	0.73	-83.4	Clear
1230	1	2	200	9.86	8.50	21.32	410.86	0.26	2.13	-96.7	"
1235	1	3	200	10.55	8.52	20.96	410.59	0.76	1.63	-91.4	"
1240	1	4	200	10.79	8.53	20.72	413.43	0.89	1.57	-80.3	"
1245	1	5	200	11.02	8.52	20.63	415.23	0.72	0.11	-68.6	"
1250	1	6	200	11.18	8.52	20.48	414.54	0.49	0.04	-68.1	"
1255	1	7	200	11.33	8.51	20.45	415.50	0.38	0.01	-67.7	"
1300	1	8	200	11.41	8.49	20.45	417.07	0.26	0.17	-69.9	"
1305	1	9	200	11.44	8.50	20.35	417.09	0.15	-0.09	-70.1	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>D. Gene</b>	SAMPLER(S) SIGNATURE(S): <i>D. Gene</i>	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y N	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	HDPE	1.9L	HNO3	----		9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----		SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----		6020, 7470A	APP	250

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present: \_\_\_\_\_ Yes \_\_\_\_\_ No
- Well Access: \_\_\_\_\_
- Sampling & Purging Equipment Condition: \_\_\_\_\_
- Site Condition that may Affect Sampling Present? \_\_\_\_\_ Yes (describe below) \_\_\_\_\_ No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units Specific Conductance: ± 5% Dissolved Oxygen: 0.2 mg/L or 10% change in saturation (whichever is greater) Turbidity: readings ≤ 10 NTU; ORP: ± 20 mV.

# GROUNDWATER SAMPLING LOG

2 of 2

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D8 (cont)</b>	SAMPLE ID: <b>MW-D8-20241017</b>
DATE: <b>10/17/24</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): _____	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: <b>1</b> WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( _____ feet - _____ feet) X <b>0.16</b> gallons/foot = _____ gallons				
EQUIPMENT VOLUME PURGE: <b>1</b> EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + ( _____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): _____	FINAL PUMP OR TUBING DEPTH IN WELL (feet): _____	PURGING INITIATED AT: <b>1220</b>	PURGING ENDED AT: <b>1330</b>	TOTAL VOLUME PURGED (gallons): <b>10</b>
--	--	-----------------------------------	-------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
<b>1310</b>	<b>1</b>	<b>10</b>	<b>200</b>	<b>11.46</b>	<b>8.49</b>	<b>20.26</b>	<b>416.63</b>	<b>0.12</b>	<b>-0.15</b>	<b>-71.7</b>	<b>clear</b>
<div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">DG</span> </div>											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>D. Grenc</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>1310</b>	SAMPLING ENDED AT: <b>1330</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>23</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-D8-20241017</b>	<b>1</b>	<b>HDPE</b>	<b>1.9L</b>	<b>HNO3</b>	----		<b>9315, 9320, Ra226, Ra228</b>	<b>APP</b>	<b>250</b>
↓	<b>1</b>	<b>HDPE</b>	<b>1.0L</b>	<b>NONE</b>	----		<b>SM4500, 2540C</b>	<b>APP</b>	<b>250</b>
↓	<b>1</b>	<b>HDPE</b>	<b>0.25L</b>	<b>HNO3</b>	----		<b>6020, 7470A</b>	<b>APP</b>	<b>250</b>

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present: \_\_\_\_\_ Yes  No
- Well Access: Good
- Sampling & Purging Equipment Condition: Good
- Site Condition that may Affect Sampling Present? \_\_\_\_\_ Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)  
 pH: ± 0.1 units **Specific Conductance:** ± 5% **Dissolved Oxygen:** 0.2 mg/L or 10% change in saturation (whichever is greater) **Turbidity:** readings ≤ 10 NTU; **ORP:** ± 20 mV.

# GROUNDWATER SAMPLING LOG

SITE NAME: <b>CRISP COUNTY POWER COMMISSION</b>	SITE LOCATION: <b>961 Power Dam Road, Warwick, GA 31796</b>
WELL NO: <b>MW-D9</b>	SAMPLE ID: <b>MW-D9-20241017</b>
DATE: <b>10/17/2024</b>	

## PURGING DATA

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>0.25</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>6.71</b>	PURGE PUMP TYPE OR BAILER: <b>PP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <b>27.27</b> feet - <b>6.71</b> feet ) X <b>0.16</b> gallons/foot = <b>3.29</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + ( gallons/foot X feet ) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>19.8</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>19.8</b>	PURGING INITIATED AT: <b>1405</b>	PURGING ENDED AT: <b>1515</b>	TOTAL VOLUME PURGED (gallons): <b>2</b>
--	--	-----------------------------------	-------------------------------	---

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
<b>1405</b>	<b>start purging</b>										
<b>1410</b>	<b>0.5</b>	<b>0.5</b>	<b>100</b>	<b>7.37</b>	<b>8.52</b>	<b>21.28</b>	<b>279.31</b>	<b>0.78</b>	<b>-0.10</b>	<b>-134.7</b>	<b>Clear</b>
<b>1415</b>	<b>0.5</b>	<b>1</b>	<b>100</b>	<b>8.04</b>	<b>8.57</b>	<b>20.44</b>	<b>284.25</b>	<b>0.45</b>	<b>-0.11</b>	<b>-143.7</b>	<b>"</b>
<b>1420</b>	<b>0.5</b>	<b>1.5</b>	<b>100</b>	<b>8.62</b>	<b>8.58</b>	<b>20.22</b>	<b>286.09</b>	<b>0.36</b>	<b>-0.08</b>	<b>-155.5</b>	<b>"</b>
<b>1425</b>	<b>0.5</b>	<b>2</b>	<b>100</b>	<b>9.33</b>	<b>8.59</b>	<b>20.42</b>	<b>284.76</b>	<b>0.29</b>	<b>-0.13</b>	<b>-145.2</b>	<b>"</b>
<div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">DG</span> </div>											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>D. Genc</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>1425</b>	SAMPLING ENDED AT: <b>1515</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>19.8</b>	TUBING MATERIAL CODE: <b>LDPE</b>	FIELD-FILTERED: Y <b>(N)</b>	FILTER SIZE: <b>—</b> μm
FIELD DECONTAMINATION: PUMP Y <b>(N)</b>	TUBING Y <b>(N(replaced))</b>	DUPLICATE: Y <b>(N)</b>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<b>MW-D9-20241017</b>	<b>1</b>	<b>HDPE</b>	<b>1.9L</b>	<b>HNO3</b>	<b>----</b>	<b>8.59</b>	<b>9315, 9320, Ra226, Ra228</b>	<b>APP</b>	<b>250</b>
<b>↓</b>	<b>1</b>	<b>HDPE</b>	<b>1.0L</b>	<b>NONE</b>	<b>----</b>	<b>8.59</b>	<b>SM4500, 2540C</b>	<b>APP</b>	<b>250</b>
<b>↓</b>	<b>1</b>	<b>HDPE</b>	<b>0.25L</b>	<b>HNO3</b>	<b>----</b>	<b>8.59</b>	<b>6020, 7470A</b>	<b>APP</b>	<b>250</b>

**FIELD SAMPLING CONDITIONS:**

- Well Sign Present:  Yes  No
- Well Access: Good
- Sampling & Purging Equipment Condition: Good
- Site Condition that may Affect Sampling Present?  Yes (describe below)  No

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SESDPROC-301-R4)**  
 pH: ± 0.1 units **Specific Conductance:** ± 5% **Dissolved Oxygen:** 0.2 mg/L or 10% change in saturation (whichever is greater) **Turbidity:** readings ≤ 10 NTU; **ORP:** ± 20 mV.



## APPENDIX B

### Laboratory Analytical Reports

April 2024

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 5/16/2024 9:03:11 PM

## JOB DESCRIPTION

Crisp County Power

## JOB NUMBER

400-255090-1

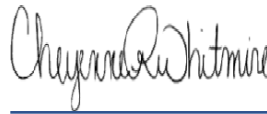
# Eurofins Pensacola

## 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  
5/16/2024 9:03:11 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Method Summary . . . . .	7
Sample Summary . . . . .	8
Client Sample Results . . . . .	9
Definitions . . . . .	16
Chronicle . . . . .	17
QC Association . . . . .	20
QC Sample Results . . . . .	23
Chain of Custody . . . . .	29
Receipt Checklists . . . . .	30
Certification Summary . . . . .	31

# Case Narrative

Client: Geosyntec Consultants Inc  
Project: Crisp County Power

Job ID: 400-255090-1

**Job ID: 400-255090-1**

**Eurofins Pensacola**

## Job Narrative 400-255090-1

### Receipt

The samples were received on 4/26/2024 9:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0° C and 2.0° C.

### General Chemistry

Method SM 4500 SO4 E: The opening continuing calibration verification (CCV) associated with the method blank (MB) and laboratory control sample (LCS) on batch 400-671539 recovered below the lower control limit for Sulfate. The associated MB was non-detect for sulfate and the LCS recovered within acceptance limits. No client samples were associated with this CCV. (LCS 400-671539/20) and (MB 400-671539/19).

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

Eurofins Pensacola



# Detection Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

## Client Sample ID: MW-D4-20240424

## Lab Sample ID: 400-255090-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00042	J B	0.0025	0.00034	mg/L	1		6020B	Total Recoverable
Barium	0.018		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.027	J	0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	52		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.16		0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D5-20240424

## Lab Sample ID: 400-255090-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.028		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.029	J	0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	34		0.25	0.14	mg/L	1		6020B	Total Recoverable
Lead	0.00040	J	0.0013	0.00021	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.7		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.029	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	3.7	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D6-20230424

## Lab Sample ID: 400-255090-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0084		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.027	J	0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	40		0.25	0.14	mg/L	1		6020B	Total Recoverable
Chromium	0.0017	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.7		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.081	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.04				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D7-20240424

## Lab Sample ID: 400-255090-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.095		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.053		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	70		0.25	0.14	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Detection Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

## Client Sample ID: MW-D7-20240424 (Continued)

## Lab Sample ID: 400-255090-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.00080	J	0.0025	0.00022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	280		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.2		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.069	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	8.5		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D8-20240424

## Lab Sample ID: 400-255090-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.062		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	81		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	25		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D9-20240424

## Lab Sample ID: 400-255090-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.053		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Boron	0.064		0.050	0.022	mg/L	1		6020B	Total Recoverable
Calcium	84		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	250		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	24		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.60				SU	1		Field Sampling	Total/NA

## Client Sample ID: DUP-11-20240424

## Lab Sample ID: 400-255090-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00039	J B	0.0025	0.00034	mg/L	1		6020B	Total Recoverable
Barium	0.042		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	58		0.25	0.14	mg/L	1		6020B	Total Recoverable
Cobalt	0.00023	J	0.0025	0.00022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.6	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.078	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola



# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

#### Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255090-1	MW-D4-20240424	Water	04/24/24 09:18	04/26/24 09:03
400-255090-2	MW-D5-20240424	Water	04/24/24 09:17	04/26/24 09:03
400-255090-3	MW-D6-20230424	Water	04/23/24 15:51	04/26/24 09:03
400-255090-4	MW-D7-20240424	Water	04/24/24 12:10	04/26/24 09:03
400-255090-5	MW-D8-20240424	Water	04/24/24 10:43	04/26/24 09:03
400-255090-6	MW-D9-20240424	Water	04/24/24 11:12	04/26/24 09:03
400-255090-7	DUP-11-20240424	Water	04/24/24 00:00	04/26/24 09:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D4-20240424**

**Lab Sample ID: 400-255090-1**

Date Collected: 04/24/24 09:18

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.00042</b>	<b>J B</b>	0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:01	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:01	1
<b>Barium</b>	<b>0.018</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:01	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:01	1
<b>Boron</b>	<b>0.027</b>	<b>J</b>	0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:01	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:01	1
<b>Calcium</b>	<b>52</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:01	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:01	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:01	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:01	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:01	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:01	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:01	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:01	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>180</b>		5.0	5.0	mg/L			05/01/24 12:14	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:26	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.16</b>		0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>1.4</b>	<b>J</b>	5.0	1.4	mg/L			05/10/24 11:15	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.36</b>				SU			04/24/24 08:18	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D5-20240424**

**Lab Sample ID: 400-255090-2**

Date Collected: 04/24/24 09:17

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:13	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:13	1
<b>Barium</b>	<b>0.028</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:13	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:13	1
<b>Boron</b>	<b>0.029</b>	<b>J</b>	0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:13	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:13	1
<b>Calcium</b>	<b>34</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:13	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:13	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:13	1
<b>Lead</b>	<b>0.00040</b>	<b>J</b>	0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:13	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:13	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:13	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:13	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:13	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>130</b>		5.0	5.0	mg/L			05/01/24 12:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>5.7</b>		2.0	1.4	mg/L			05/02/24 17:28	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.029</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>3.7</b>	<b>J</b>	5.0	1.4	mg/L			05/10/24 11:15	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>6.76</b>				SU			04/24/24 08:17	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D6-20230424**

**Lab Sample ID: 400-255090-3**

Date Collected: 04/23/24 15:51

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:18	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:18	1
<b>Barium</b>	<b>0.0084</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:18	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:18	1
<b>Boron</b>	<b>0.027</b>	<b>J</b>	0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:18	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:18	1
<b>Calcium</b>	<b>40</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:18	1
<b>Chromium</b>	<b>0.0017</b>	<b>J</b>	0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:18	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:18	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:18	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:18	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:18	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:18	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:18	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>120</b>		5.0	5.0	mg/L			04/30/24 10:15	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>3.7</b>		2.0	1.4	mg/L			05/02/24 17:28	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.081</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>4.9</b>	<b>J</b>	5.0	1.4	mg/L			05/10/24 11:16	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>8.04</b>				SU			04/23/24 14:51	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D7-20240424**

**Lab Sample ID: 400-255090-4**

Date Collected: 04/24/24 12:10

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:22	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:22	1
<b>Barium</b>	<b>0.095</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:22	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:22	1
<b>Boron</b>	<b>0.053</b>		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:22	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:22	1
<b>Calcium</b>	<b>70</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:22	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:22	1
<b>Cobalt</b>	<b>0.00080</b>	<b>J</b>	0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:22	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:22	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:22	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:22	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:22	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:22	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>280</b>		5.0	5.0	mg/L			05/01/24 12:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>4.2</b>		2.0	1.4	mg/L			05/02/24 17:29	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.069</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>8.5</b>		5.0	1.4	mg/L			05/10/24 11:16	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.36</b>				SU			04/24/24 11:10	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D8-20240424**

**Lab Sample ID: 400-255090-5**

Date Collected: 04/24/24 10:43

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:26	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:26	1
<b>Barium</b>	<b>0.055</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:26	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:26	1
<b>Boron</b>	<b>0.062</b>		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:26	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:26	1
<b>Calcium</b>	<b>81</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:26	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:26	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:26	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:26	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:26	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:26	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:26	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:26	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>240</b>		5.0	5.0	mg/L			05/01/24 12:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>5.8</b>		2.0	1.4	mg/L			05/02/24 17:29	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.050</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>25</b>		5.0	1.4	mg/L			05/10/24 11:17	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.27</b>				SU			04/24/24 09:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D9-20240424**

**Lab Sample ID: 400-255090-6**

Date Collected: 04/24/24 11:12

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:30	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:30	1
<b>Barium</b>	<b>0.053</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:30	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:30	1
<b>Boron</b>	<b>0.064</b>		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:30	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:30	1
<b>Calcium</b>	<b>84</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:30	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:30	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:30	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:30	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:30	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:30	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:30	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:30	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>250</b>		5.0	5.0	mg/L			05/01/24 12:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>5.9</b>		2.0	1.4	mg/L			05/02/24 17:30	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.050</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>24</b>		5.0	1.4	mg/L			05/10/24 11:17	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.60</b>				SU			04/24/24 10:12	1



# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: DUP-11-20240424**

**Lab Sample ID: 400-255090-7**

Date Collected: 04/24/24 00:00

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.00039</b>	<b>J B</b>	0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:42	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:42	1
<b>Barium</b>	<b>0.042</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:42	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:42	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:42	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:42	1
<b>Calcium</b>	<b>58</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:42	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:42	1
<b>Cobalt</b>	<b>0.00023</b>	<b>J</b>	0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:42	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:42	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:42	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:42	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:42	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:42	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>160</b>		5.0	5.0	mg/L			04/30/24 10:15	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>1.6</b>	<b>J</b>	2.0	1.4	mg/L			05/02/24 17:30	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.078</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			05/14/24 17:58	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
^	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D4-20240424**  
**Date Collected: 04/24/24 09:18**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:01
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:46
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:26
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:15
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/24/24 08:18

**Client Sample ID: MW-D5-20240424**  
**Date Collected: 04/24/24 09:17**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:13
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:44
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:28
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:15
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/24/24 08:17

**Client Sample ID: MW-D6-20230424**  
**Date Collected: 04/23/24 15:51**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:18
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:42
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:28
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:16
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/23/24 14:51

# Lab Chronicle

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: MW-D7-20240424**  
**Date Collected: 04/24/24 12:10**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:22
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:40
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:29
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:16
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/24/24 11:10

**Client Sample ID: MW-D8-20240424**  
**Date Collected: 04/24/24 10:43**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:26
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:38
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:29
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:17
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/24/24 09:43

**Client Sample ID: MW-D9-20240424**  
**Date Collected: 04/24/24 11:12**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:30
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:36
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:30
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:17
Total/NA	Analysis	Field Sampling		1	671089	C1H	EET PEN	04/24/24 10:12

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

**Client Sample ID: DUP-11-20240424**

**Lab Sample ID: 400-255090-7**

**Date Collected: 04/24/24 00:00**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:42
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:30
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 Cl- E		1	670327	CJK	EET PEN	05/02/24 17:30
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671539	CJK	EET PEN	05/14/24 17:58

**Laboratory References:**

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Metals

### Prep Batch: 835692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total Recoverable	Water	3005A	
400-255090-2	MW-D5-20240424	Total Recoverable	Water	3005A	
400-255090-3	MW-D6-20230424	Total Recoverable	Water	3005A	
400-255090-4	MW-D7-20240424	Total Recoverable	Water	3005A	
400-255090-5	MW-D8-20240424	Total Recoverable	Water	3005A	
400-255090-6	MW-D9-20240424	Total Recoverable	Water	3005A	
400-255090-7	DUP-11-20240424	Total Recoverable	Water	3005A	
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-255090-1 MS	MW-D4-20240424	Total Recoverable	Water	3005A	
400-255090-1 MSD	MW-D4-20240424	Total Recoverable	Water	3005A	

### Analysis Batch: 835904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total Recoverable	Water	6020B	835692
400-255090-2	MW-D5-20240424	Total Recoverable	Water	6020B	835692
400-255090-3	MW-D6-20230424	Total Recoverable	Water	6020B	835692
400-255090-4	MW-D7-20240424	Total Recoverable	Water	6020B	835692
400-255090-5	MW-D8-20240424	Total Recoverable	Water	6020B	835692
400-255090-6	MW-D9-20240424	Total Recoverable	Water	6020B	835692
400-255090-7	DUP-11-20240424	Total Recoverable	Water	6020B	835692
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	6020B	835692
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	6020B	835692
400-255090-1 MS	MW-D4-20240424	Total Recoverable	Water	6020B	835692
400-255090-1 MSD	MW-D4-20240424	Total Recoverable	Water	6020B	835692

### Prep Batch: 836157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	7470A	
400-255090-2	MW-D5-20240424	Total/NA	Water	7470A	
400-255090-3	MW-D6-20230424	Total/NA	Water	7470A	
400-255090-4	MW-D7-20240424	Total/NA	Water	7470A	
400-255090-5	MW-D8-20240424	Total/NA	Water	7470A	
400-255090-6	MW-D9-20240424	Total/NA	Water	7470A	
400-255090-7	DUP-11-20240424	Total/NA	Water	7470A	
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255090-7 MS	DUP-11-20240424	Total/NA	Water	7470A	
400-255090-7 MSD	DUP-11-20240424	Total/NA	Water	7470A	

### Analysis Batch: 836331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	7470A	836157
400-255090-2	MW-D5-20240424	Total/NA	Water	7470A	836157
400-255090-3	MW-D6-20230424	Total/NA	Water	7470A	836157
400-255090-4	MW-D7-20240424	Total/NA	Water	7470A	836157
400-255090-5	MW-D8-20240424	Total/NA	Water	7470A	836157
400-255090-6	MW-D9-20240424	Total/NA	Water	7470A	836157
400-255090-7	DUP-11-20240424	Total/NA	Water	7470A	836157
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	836157
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	836157

Eurofins Pensacola

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Metals (Continued)

### Analysis Batch: 836331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-7 MS	DUP-11-20240424	Total/NA	Water	7470A	836157
400-255090-7 MSD	DUP-11-20240424	Total/NA	Water	7470A	836157

## General Chemistry

### Analysis Batch: 669873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-3	MW-D6-20230424	Total/NA	Water	SM 2540C	
400-255090-7	DUP-11-20240424	Total/NA	Water	SM 2540C	
MB 400-669873/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-669873/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254872-D-5 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 669910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	SM 4500 F C	
400-255090-2	MW-D5-20240424	Total/NA	Water	SM 4500 F C	
400-255090-3	MW-D6-20230424	Total/NA	Water	SM 4500 F C	
400-255090-4	MW-D7-20240424	Total/NA	Water	SM 4500 F C	
400-255090-5	MW-D8-20240424	Total/NA	Water	SM 4500 F C	
400-255090-6	MW-D9-20240424	Total/NA	Water	SM 4500 F C	
400-255090-7	DUP-11-20240424	Total/NA	Water	SM 4500 F C	
MB 400-669910/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-669910/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-669910/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-255088-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-255088-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-255090-5 DU	MW-D8-20240424	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 670073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	SM 2540C	
400-255090-2	MW-D5-20240424	Total/NA	Water	SM 2540C	
400-255090-4	MW-D7-20240424	Total/NA	Water	SM 2540C	
400-255090-5	MW-D8-20240424	Total/NA	Water	SM 2540C	
400-255090-6	MW-D9-20240424	Total/NA	Water	SM 2540C	
MB 400-670073/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-670073/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254881-C-8 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 670327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	SM 4500 CI- E	
400-255090-2	MW-D5-20240424	Total/NA	Water	SM 4500 CI- E	
400-255090-3	MW-D6-20230424	Total/NA	Water	SM 4500 CI- E	
400-255090-4	MW-D7-20240424	Total/NA	Water	SM 4500 CI- E	
400-255090-5	MW-D8-20240424	Total/NA	Water	SM 4500 CI- E	
400-255090-6	MW-D9-20240424	Total/NA	Water	SM 4500 CI- E	
400-255090-7	DUP-11-20240424	Total/NA	Water	SM 4500 CI- E	
MB 400-670327/44	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-670327/45	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Eurofins Pensacola

# QC Association Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

## General Chemistry (Continued)

### Analysis Batch: 670327 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-670327/46	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-255090-1 MS	MW-D4-20240424	Total/NA	Water	SM 4500 Cl- E	
400-255090-1 MSD	MW-D4-20240424	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 671139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255090-2	MW-D5-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255090-3	MW-D6-20230424	Total/NA	Water	SM 4500 SO4 E	
400-255090-4	MW-D7-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255090-5	MW-D8-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255090-6	MW-D9-20240424	Total/NA	Water	SM 4500 SO4 E	
MB 400-671139/27	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-671139/28	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-671139/26	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-255094-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-255094-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 671539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-7	DUP-11-20240424	Total/NA	Water	SM 4500 SO4 E	
MB 400-671539/19	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-671539/20	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-671539/24	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-255090-7 MS	DUP-11-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255090-7 MSD	DUP-11-20240424	Total/NA	Water	SM 4500 SO4 E	

## Field Service / Mobile Lab

### Analysis Batch: 671089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	Field Sampling	
400-255090-2	MW-D5-20240424	Total/NA	Water	Field Sampling	
400-255090-3	MW-D6-20230424	Total/NA	Water	Field Sampling	
400-255090-4	MW-D7-20240424	Total/NA	Water	Field Sampling	
400-255090-5	MW-D8-20240424	Total/NA	Water	Field Sampling	
400-255090-6	MW-D9-20240424	Total/NA	Water	Field Sampling	



# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-835692/1-A**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.000550	J	0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 20:53	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 20:53	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 20:53	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 20:53	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 20:53	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 20:53	1

**Lab Sample ID: LCS 680-835692/2-A**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Barium	0.100	0.109		mg/L		109	80 - 120
Beryllium	0.0500	0.0567		mg/L		113	80 - 120
Boron	0.400	0.463		mg/L		116	80 - 120
Cadmium	0.0500	0.0561		mg/L		112	80 - 120
Calcium	5.00	5.22		mg/L		104	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.0500	0.0544		mg/L		109	80 - 120
Lead	0.500	0.528		mg/L		106	80 - 120
Lithium	0.500	0.547		mg/L		109	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Thallium	0.0500	0.0511		mg/L		102	80 - 120

**Lab Sample ID: 400-255090-1 MS**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: MW-D4-20240424**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.00042	J B	0.0500	0.0560		mg/L		111	75 - 125
Arsenic	ND		0.100	0.109		mg/L		109	75 - 125
Barium	0.018		0.100	0.130		mg/L		112	75 - 125
Beryllium	ND		0.0500	0.0555		mg/L		111	75 - 125
Boron	0.027	J	0.400	0.455		mg/L		107	75 - 125
Cadmium	ND		0.0500	0.0571		mg/L		114	75 - 125
Calcium	52		5.00	53.8	4	mg/L		44	75 - 125
Chromium	ND		0.100	0.113		mg/L		112	75 - 125
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 400-255090-1 MS**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: MW-D4-20240424**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.513		mg/L		103	75 - 125
Lithium	ND		0.500	0.525		mg/L		105	75 - 125
Molybdenum	ND		0.100	0.108		mg/L		108	75 - 125
Selenium	ND		0.100	0.111		mg/L		111	75 - 125
Thallium	ND		0.0500	0.0520		mg/L		104	75 - 125

**Lab Sample ID: 400-255090-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: MW-D4-20240424**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00042	J B	0.0500	0.0512		mg/L		102	75 - 125	9	20
Arsenic	ND		0.100	0.101		mg/L		101	75 - 125	8	20
Barium	0.018		0.100	0.119		mg/L		101	75 - 125	9	20
Beryllium	ND		0.0500	0.0532		mg/L		106	75 - 125	4	20
Boron	0.027	J	0.400	0.438		mg/L		103	75 - 125	4	20
Cadmium	ND		0.0500	0.0514		mg/L		103	75 - 125	10	20
Calcium	52		5.00	48.7	4	mg/L		-59	75 - 125	10	20
Chromium	ND		0.100	0.103		mg/L		103	75 - 125	9	20
Cobalt	ND		0.0500	0.0511		mg/L		102	75 - 125	7	20
Lead	ND		0.500	0.496		mg/L		99	75 - 125	3	20
Lithium	ND		0.500	0.507		mg/L		101	75 - 125	3	20
Molybdenum	ND		0.100	0.0982		mg/L		98	75 - 125	9	20
Selenium	ND		0.100	0.102		mg/L		102	75 - 125	8	20
Thallium	ND		0.0500	0.0481		mg/L		96	75 - 125	8	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-836157/1-A**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/03/24 20:07	1

**Lab Sample ID: LCS 680-836157/2-A**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

**Lab Sample ID: 400-255090-7 MS**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: DUP-11-20240424**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00104		mg/L		104	80 - 120

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 400-255090-7 MSD  
 Matrix: Water  
 Analysis Batch: 836331

Client Sample ID: DUP-11-20240424  
 Prep Type: Total/NA  
 Prep Batch: 836157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00103		mg/L		103	80 - 120	1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-669873/1  
 Matrix: Water  
 Analysis Batch: 669873

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			04/30/24 10:15	1

Lab Sample ID: LCS 400-669873/2  
 Matrix: Water  
 Analysis Batch: 669873

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	286		mg/L		98	78 - 122

Lab Sample ID: 400-254872-D-5 DU  
 Matrix: Water  
 Analysis Batch: 669873

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	440		434		mg/L		2	5

Lab Sample ID: MB 400-670073/1  
 Matrix: Water  
 Analysis Batch: 670073

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			05/01/24 12:14	1

Lab Sample ID: LCS 400-670073/2  
 Matrix: Water  
 Analysis Batch: 670073

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	268		mg/L		91	78 - 122

Lab Sample ID: 400-254881-C-8 DU  
 Matrix: Water  
 Analysis Batch: 670073

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		194		mg/L		2	5

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-670327/44  
Matrix: Water  
Analysis Batch: 670327

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			05/02/24 17:24	1

Lab Sample ID: LCS 400-670327/45  
Matrix: Water  
Analysis Batch: 670327

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.8		mg/L		96	90 - 110

Lab Sample ID: MRL 400-670327/46  
Matrix: Water  
Analysis Batch: 670327

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.87		mg/L		143	50 - 150

Lab Sample ID: 400-255090-1 MS  
Matrix: Water  
Analysis Batch: 670327

Client Sample ID: MW-D4-20240424  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		10.0	10.5		mg/L		105	73 - 120

Lab Sample ID: 400-255090-1 MSD  
Matrix: Water  
Analysis Batch: 670327

Client Sample ID: MW-D4-20240424  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		10.0	10.7		mg/L		107	73 - 120	3	8

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-669910/9  
Matrix: Water  
Analysis Batch: 669910

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			04/30/24 11:35	1

Lab Sample ID: LCS 400-669910/11  
Matrix: Water  
Analysis Batch: 669910

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.95		mg/L		99	90 - 110

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: MRL 400-669910/10**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.0917	J	mg/L		92	50 - 150

**Lab Sample ID: 400-255088-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.047	J	0.100	0.137		mg/L		90	75 - 125

**Lab Sample ID: 400-255088-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.047	J	0.100	0.131		mg/L		85	75 - 125	4	4

**Lab Sample ID: 400-255090-5 DU**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: MW-D8-20240424**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.050	J	0.0504	J	mg/L		0	4

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 400-671139/27**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			05/10/24 11:11	1

**Lab Sample ID: LCS 400-671139/28**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	13.9		mg/L		93	90 - 110

**Lab Sample ID: MRL 400-671139/26**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.59	J	mg/L		92	50 - 150

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

**Lab Sample ID: 400-255094-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.3	J	10.0	11.5		mg/L		92	77 - 128

**Lab Sample ID: 400-255094-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.3	J	10.0	11.6		mg/L		92	77 - 128	0	5

**Lab Sample ID: MB 400-671539/19**  
**Matrix: Water**  
**Analysis Batch: 671539**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND	^	5.0	1.4	mg/L			05/14/24 17:35	1

**Lab Sample ID: LCS 400-671539/20**  
**Matrix: Water**  
**Analysis Batch: 671539**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	14.6	^	mg/L		98	90 - 110

**Lab Sample ID: MRL 400-671539/24**  
**Matrix: Water**  
**Analysis Batch: 671539**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	5.82		mg/L		116	50 - 150

**Lab Sample ID: 400-255090-7 MS**  
**Matrix: Water**  
**Analysis Batch: 671539**

**Client Sample ID: DUP-11-20240424**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	ND		10.0	10.3		mg/L		103	77 - 128

**Lab Sample ID: 400-255090-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 671539**

**Client Sample ID: DUP-11-20240424**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	ND		10.0	10.6		mg/L		106	77 - 128	2	5



# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255090-1

**Login Number: 255090**

**List Source: Eurofins Pensacola**

**List Number: 1**

**Creator: Earnest, Tamantha**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C 2.0°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-1

## Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

## Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-1

## Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 6/4/2024 5:42:20 PM

**JOB DESCRIPTION**

Crisp County Power

**JOB NUMBER**

400-255090-2

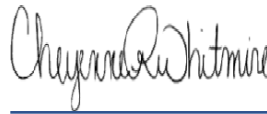
# Eurofins Pensacola

## 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  
6/4/2024 5:42:20 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	13
Chronicle . . . . .	14
QC Association . . . . .	16
QC Sample Results . . . . .	17
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	22
Certification Summary . . . . .	23

# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

#### Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255090-1	MW-D4-20240424	Water	04/24/24 09:18	04/26/24 09:03
400-255090-2	MW-D5-20240424	Water	04/24/24 09:17	04/26/24 09:03
400-255090-3	MW-D6-20230424	Water	04/23/24 15:51	04/26/24 09:03
400-255090-4	MW-D7-20240424	Water	04/24/24 12:10	04/26/24 09:03
400-255090-5	MW-D8-20240424	Water	04/24/24 10:43	04/26/24 09:03
400-255090-6	MW-D9-20240424	Water	04/24/24 11:12	04/26/24 09:03
400-255090-7	DUP-11-20240424	Water	04/24/24 00:00	04/26/24 09:03

1

2

3

4

5

6

7

8

9

10

11

12

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D4-20240424**

**Lab Sample ID: 400-255090-1**

Date Collected: 04/24/24 09:18

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0496	U	0.133	0.133	1.00	0.247	pCi/L	05/02/24 08:33	05/24/24 07:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					05/02/24 08:33	05/24/24 07:55	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.285	U	0.279	0.281	1.00	0.446	pCi/L	05/02/24 08:41	05/23/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					05/02/24 08:41	05/23/24 11:44	1
Y Carrier	83.7		30 - 110					05/02/24 08:41	05/23/24 11:44	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.335	U	0.309	0.311	5.00	0.446	pCi/L		05/25/24 06:59	1



# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D5-20240424**

**Lab Sample ID: 400-255090-2**

Date Collected: 04/24/24 09:17

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0901	U	0.0860	0.0863	1.00	0.133	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					05/02/24 08:25	06/02/24 15:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.378	U	0.372	0.374	1.00	0.600	pCi/L	05/02/24 08:31	05/29/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					05/02/24 08:31	05/29/24 11:55	1
Y Carrier	76.3		30 - 110					05/02/24 08:31	05/29/24 11:55	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.468	U	0.382	0.384	5.00	0.600	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D6-20230424**

**Lab Sample ID: 400-255090-3**

Date Collected: 04/23/24 15:51

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0349	U	0.0762	0.0763	1.00	0.138	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					05/02/24 08:25	06/02/24 15:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.660</b>		0.378	0.382	1.00	0.541	pCi/L	05/02/24 08:31	05/29/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					05/02/24 08:31	05/29/24 11:55	1
Y Carrier	75.5		30 - 110					05/02/24 08:31	05/29/24 11:55	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.695</b>		0.386	0.390	5.00	0.541	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D7-20240424**

**Lab Sample ID: 400-255090-4**

Date Collected: 04/24/24 12:10

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.107	U	0.0894	0.0900	1.00	0.133	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					05/02/24 08:25	06/02/24 15:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.374	U	0.303	0.305	1.00	0.465	pCi/L	05/02/24 08:31	05/29/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					05/02/24 08:31	05/29/24 11:55	1
Y Carrier	78.5		30 - 110					05/02/24 08:31	05/29/24 11:55	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.481</b>		0.316	0.318	5.00	0.465	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D8-20240424**

**Lab Sample ID: 400-255090-5**

Date Collected: 04/24/24 10:43

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0884	U	0.0970	0.0973	1.00	0.156	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					05/02/24 08:25	06/02/24 15:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.602	U	0.413	0.417	1.00	0.624	pCi/L	05/02/24 08:31	05/29/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					05/02/24 08:31	05/29/24 11:55	1
Y Carrier	77.4		30 - 110					05/02/24 08:31	05/29/24 11:55	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.691</b>		0.424	0.428	5.00	0.624	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D9-20240424**

**Lab Sample ID: 400-255090-6**

Date Collected: 04/24/24 11:12

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0484	U	0.0809	0.0811	1.00	0.141	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					05/02/24 08:25	06/02/24 15:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0337	U	0.253	0.253	1.00	0.474	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	78.9		30 - 110					05/02/24 08:31	05/29/24 11:54	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0821	U	0.266	0.266	5.00	0.474	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: DUP-11-20240424**

**Lab Sample ID: 400-255090-7**

Date Collected: 04/24/24 00:00

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130	U	0.0935	0.0942	1.00	0.131	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:25	06/02/24 15:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.390	U	0.335	0.337	1.00	0.524	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	74.4		30 - 110					05/02/24 08:31	05/29/24 11:54	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.520	U	0.348	0.350	5.00	0.524	pCi/L		06/04/24 07:23	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D4-20240424**  
**Date Collected: 04/24/24 09:18**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659708	MLT	EET SL	05/02/24 08:33
Total/NA	Analysis	9315		1	663324	SCB	EET SL	05/24/24 07:55
Total/NA	Prep	PrecSep_0			659781	MLT	EET SL	05/02/24 08:41
Total/NA	Analysis	9320		1	663153	SCB	EET SL	05/23/24 11:44
Total/NA	Analysis	Ra226_Ra228		1	663384	FLC	EET SL	05/25/24 06:59

**Client Sample ID: MW-D5-20240424**  
**Date Collected: 04/24/24 09:17**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664291	SCB	EET SL	06/02/24 15:27
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663739	SCB	EET SL	05/29/24 11:55
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: MW-D6-20230424**  
**Date Collected: 04/23/24 15:51**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664291	SCB	EET SL	06/02/24 15:27
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663739	SCB	EET SL	05/29/24 11:55
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: MW-D7-20240424**  
**Date Collected: 04/24/24 12:10**  
**Date Received: 04/26/24 09:03**

**Lab Sample ID: 400-255090-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664291	SCB	EET SL	06/02/24 15:27
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663739	SCB	EET SL	05/29/24 11:55
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23



# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

**Client Sample ID: MW-D8-20240424**

**Lab Sample ID: 400-255090-5**

**Date Collected: 04/24/24 10:43**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664291	SCB	EET SL	06/02/24 15:27
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663739	SCB	EET SL	05/29/24 11:55
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: MW-D9-20240424**

**Lab Sample ID: 400-255090-6**

**Date Collected: 04/24/24 11:12**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664291	SCB	EET SL	06/02/24 15:27
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: DUP-11-20240424**

**Lab Sample ID: 400-255090-7**

**Date Collected: 04/24/24 00:00**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664291	SCB	EET SL	06/02/24 15:27
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

## Rad

### Prep Batch: 659657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-2	MW-D5-20240424	Total/NA	Water	PrecSep-21	
400-255090-3	MW-D6-20230424	Total/NA	Water	PrecSep-21	
400-255090-4	MW-D7-20240424	Total/NA	Water	PrecSep-21	
400-255090-5	MW-D8-20240424	Total/NA	Water	PrecSep-21	
400-255090-6	MW-D9-20240424	Total/NA	Water	PrecSep-21	
400-255090-7	DUP-11-20240424	Total/NA	Water	PrecSep-21	
MB 160-659657/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-659657/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-203565-K-9-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-203565-L-9-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	

### Prep Batch: 659660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-2	MW-D5-20240424	Total/NA	Water	PrecSep_0	
400-255090-3	MW-D6-20230424	Total/NA	Water	PrecSep_0	
400-255090-4	MW-D7-20240424	Total/NA	Water	PrecSep_0	
400-255090-5	MW-D8-20240424	Total/NA	Water	PrecSep_0	
400-255090-6	MW-D9-20240424	Total/NA	Water	PrecSep_0	
400-255090-7	DUP-11-20240424	Total/NA	Water	PrecSep_0	
MB 160-659660/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-659660/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-203565-K-9-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-203565-L-9-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	

### Prep Batch: 659708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	PrecSep-21	
MB 160-659708/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-659708/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
380-92936-O-1-B DU	Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 659781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255090-1	MW-D4-20240424	Total/NA	Water	PrecSep_0	
MB 160-659781/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-659781/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
380-92936-O-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-659657/1-A**  
**Matrix: Water**  
**Analysis Batch: 664291**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.005333	U	0.0721	0.0721	1.00	0.143	pCi/L	05/02/24 08:25	06/02/24 15:27	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					05/02/24 08:25	06/02/24 15:27	1
	97.7									

**Lab Sample ID: LCS 160-659657/2-A**  
**Matrix: Water**  
**Analysis Batch: 664291**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.948		1.08	1.00	0.151	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	99.5		30 - 110						

**Lab Sample ID: 240-203565-K-9-A MSD**  
**Matrix: Water**  
**Analysis Batch: 664450**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
	0.0717	U	11.3	8.757		Uncert. (2σ+/-)							
Radium-226	0.0717	U	11.3	8.757		0.961	1.00	0.120	pCi/L	77	60 - 140	0.40	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	98.2		30 - 110										

**Lab Sample ID: 240-203565-L-9-A MS**  
**Matrix: Water**  
**Analysis Batch: 664450**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
	0.0717	U	11.3	9.557		Uncert. (2σ+/-)					
Radium-226	0.0717	U	11.3	9.557		1.04	1.00	0.126	pCi/L	84	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	98.7		30 - 110								

**Lab Sample ID: MB 160-659708/1-A**  
**Matrix: Water**  
**Analysis Batch: 663322**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659708**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03158	U	0.120	0.120	1.00	0.232	pCi/L	05/02/24 08:33	05/24/24 08:01	1

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: MB 160-659708/1-A**  
**Matrix: Water**  
**Analysis Batch: 663322**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659708**

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110	05/02/24 08:33	05/24/24 08:01	1

**Lab Sample ID: LCS 160-659708/2-A**  
**Matrix: Water**  
**Analysis Batch: 663322**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659708**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	11.07		1.35	1.00	0.270	pCi/L	98	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.3		30 - 110

**Lab Sample ID: 380-92936-O-1-B DU**  
**Matrix: Water**  
**Analysis Batch: 663322**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 659708**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.321		0.08613	U	0.158	1.00	0.173	pCi/L	0.70	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	97.5		30 - 110

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-659660/1-A**  
**Matrix: Water**  
**Analysis Batch: 663739**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2869	U	0.352	0.353	1.00	0.582	pCi/L	05/02/24 08:31	05/29/24 11:54	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110	05/02/24 08:31	05/29/24 11:54	1
Y Carrier	72.9		30 - 110	05/02/24 08:31	05/29/24 11:54	1

**Lab Sample ID: LCS 160-659660/2-A**  
**Matrix: Water**  
**Analysis Batch: 663739**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.90	10.51		1.39	1.00	0.543	pCi/L	118	75 - 125

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255090-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-659660/2-A**  
**Matrix: Water**  
**Analysis Batch: 663739**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	99.5		30 - 110
Y Carrier	77.4		30 - 110

**Lab Sample ID: 240-203565-K-9-B MSD**  
**Matrix: Water**  
**Analysis Batch: 663733**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	Limit
											60 - 140	0.01	1	
Radium-228	0.159	U	8.87	9.094		1.37	1.00	0.752	pCi/L	101	60 - 140	0.01	1	

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.2		30 - 110
Y Carrier	73.3		30 - 110

**Lab Sample ID: 240-203565-L-9-B MS**  
**Matrix: Water**  
**Analysis Batch: 663733**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
											60 - 140	
Radium-228	0.159	U	8.89	9.078		1.32	1.00	0.650	pCi/L	100	60 - 140	

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.7		30 - 110
Y Carrier	80.0		30 - 110

**Lab Sample ID: MB 160-659781/1-A**  
**Matrix: Water**  
**Analysis Batch: 662988**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659781**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2856	U	0.320	0.321	1.00	0.524	pCi/L	05/02/24 08:41	05/23/24 11:32	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	98.0		30 - 110	05/02/24 08:41	05/23/24 11:32	1
Y Carrier	77.8		30 - 110	05/02/24 08:41	05/23/24 11:32	1

**Lab Sample ID: LCS 160-659781/2-A**  
**Matrix: Water**  
**Analysis Batch: 662988**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659781**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75 - 125	
Radium-228	8.92	9.708		1.35	1.00	0.518	pCi/L	109	75 - 125	

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-659781/2-A**  
**Matrix: Water**  
**Analysis Batch: 662988**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659781**

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	87.3		30 - 110
Y Carrier	78.1		30 - 110

**Lab Sample ID: 380-92936-O-1-D DU**  
**Matrix: Water**  
**Analysis Batch: 662988**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 659781**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-228	0.459		0.3819		0.302	1.00	0.279	pCi/L	0.12	1

Carrier	DU	DU	Limits
	%Yield	Qualifier	
Ba Carrier	97.5		30 - 110
Y Carrier	79.3		30 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

# Chain of Custody Record

<b>Client Information</b>		Sampler: <u>TRISTAN H &amp; ZAINA W</u> Lab PM: <u>Whitmore, Cheyenne R</u> Client Contact: <u>Dawit Yifru</u> Phone: <u></u> E-Mail: <u>Chyenne.Whitmore@et.eurofins.com</u>		COC No: <u>400-129991-29334.1</u> Page: <u>1 of 1</u> Job #: <u>GA</u>	
Company: <u>Geosyntec Consultants Inc</u> Address: <u>1255 Roberts Blvd, NW Suite 200</u> City: <u>Kennesaw</u> State, Zip: <u>GA, 30144</u> Phone: <u>770-371-6027</u> Email: <u>dyifru@geosyntec.com</u>		PWSID: <u></u> Due Date Requested: <u></u> TAT Requested (days): <u>standard</u> Compliance Project: <u>Δ Yes Δ No</u> PO #: <u></u> Purchase Order not required: <u></u> WO #: <u></u>		Analysis Requested 915_Ra226_9320_Ra228_Ra228Ra228_GFPc SM4500_Cl_E - Chloride 6020 - Sb,As,Ba,Ba,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo 7470A - Mercury 2540C - Total Dissolved Solids 4500_F_C - Fluoride SM4500_SO4_E - Sulfate Field Sampling - Field pH	
Project Name: <u>CCR App.III/IV GW Monitoring Crisp Co</u> Project #: <u>40007960</u> SOW#: <u></u> Site: <u>Crisp County Power</u>		Matrix (W=water, S=solid, O=soil, BT=Tissue, AA=Air) Sample Type (C=comp, G=grab) Sample Date Sample Time Matrix Sample Type Sample Date Sample Time		Special Instructions/Note: PH = 7.36 PH = 6.76 PH = 8.04 PH = 7.36 PH = 7.27 PH = 7.60 <del>PH = 7.36</del>	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by: <u></u> Date: <u></u>		Relinquished by: <u>TRISTAN HALLEMAN</u> Date/Time: <u>4/25/24 11:30</u> Company: <u>Geosyntec</u>		Relinquished by: <u>AP</u> Date/Time: <u>04/26/24</u> Company: <u></u>	
Relinquished by: <u></u> Date/Time: <u></u> Company: <u></u>		Relinquished by: <u></u> Date/Time: <u></u> Company: <u></u>		Relinquished by: <u></u> Date/Time: <u></u> Company: <u></u>	
Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal #: <u></u>		Cooler Temperature(s) °C and Other Remarks: <u>IR 10</u> <u>2.0°C</u>		Ver: 06/08/2021	



# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255090-2

**Login Number: 255090**

**List Source: Eurofins Pensacola**

**List Number: 1**

**Creator: Earnest, Tamantha**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C 2.0°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255090-2

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 5/13/2024 10:04:04 AM

## JOB DESCRIPTION

Crisp County Power

## JOB NUMBER

400-255094-1

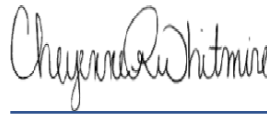
# Eurofins Pensacola

## 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  
5/13/2024 10:04:04 AM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Detection Summary . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	11
Chronicle . . . . .	12
QC Association . . . . .	14
QC Sample Results . . . . .	17
Chain of Custody . . . . .	24
Receipt Checklists . . . . .	25
Certification Summary . . . . .	26

# Detection Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Client Sample ID: MW-U1-20240423

## Lab Sample ID: 400-255094-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0018	J	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	33		0.25	0.14	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.5	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.3	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.92				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-U2-20240423

## Lab Sample ID: 400-255094-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0092		0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	12		0.25	0.14	mg/L	1		6020B	Total Recoverable
Selenium	0.0012	J	0.0013	0.00099	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	58		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.041	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	23		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.37				SU	1		Field Sampling	Total/NA

## Client Sample ID: EB-20240424

## Lab Sample ID: 400-255094-3

No Detections.

## Client Sample ID: FB-20240424

## Lab Sample ID: 400-255094-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

#### Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255094-1	MW-U1-20240423	Water	04/23/24 12:27	04/26/24 09:03
400-255094-2	MW-U2-20240423	Water	04/23/24 12:37	04/26/24 09:03
400-255094-3	EB-20240424	Water	04/24/24 13:20	04/26/24 09:03
400-255094-4	FB-20240424	Water	04/24/24 12:50	04/26/24 09:03

1

2

3

4

5

6

7

8

9

10

11

12

13

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-1

**Client Sample ID: MW-U1-20240423**

**Lab Sample ID: 400-255094-1**

Date Collected: 04/23/24 12:27

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:46	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:46	1
<b>Barium</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:46	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:46	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:46	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:46	1
<b>Calcium</b>	<b>33</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:46	1
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:46	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:46	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:46	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:46	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:46	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:46	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:46	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>120</b>		5.0	5.0	mg/L			04/30/24 10:15	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>1.5</b>	<b>J</b>	2.0	1.4	mg/L			05/02/24 17:31	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.050</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>2.3</b>	<b>J</b>	5.0	1.4	mg/L			05/10/24 11:12	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.92</b>				SU			04/23/24 11:27	1



# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-1

**Client Sample ID: MW-U2-20240423**

**Lab Sample ID: 400-255094-2**

Date Collected: 04/23/24 12:37

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:50	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:50	1
<b>Barium</b>	<b>0.0092</b>		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:50	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:50	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:50	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:50	1
<b>Calcium</b>	<b>12</b>		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:50	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:50	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:50	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:50	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:50	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:50	1
<b>Selenium</b>	<b>0.0012</b>	<b>J</b>	0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:50	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:50	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>58</b>		5.0	5.0	mg/L			04/30/24 10:15	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:31	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.041</b>	<b>J</b>	0.10	0.022	mg/L			04/30/24 11:35	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>23</b>		5.0	1.4	mg/L			05/10/24 11:13	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.37</b>				SU			04/23/24 11:37	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

**Client Sample ID: EB-20240424**

**Lab Sample ID: 400-255094-3**

**Date Collected: 04/24/24 13:20**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:54	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:54	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:54	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:54	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:54	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:54	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:54	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:54	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:54	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:54	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:54	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:54	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:54	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:54	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 09:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND		5.0	5.0	mg/L			05/01/24 12:14	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:32	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			05/10/24 11:14	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-1

**Client Sample ID: FB-20240424**

**Lab Sample ID: 400-255094-4**

Date Collected: 04/24/24 12:50

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 21:58	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 21:58	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 21:58	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 21:58	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 21:58	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 21:58	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 21:58	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 21:58	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 21:58	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 21:58	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 21:58	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 21:58	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 21:58	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 21:58	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/04/24 10:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND		5.0	5.0	mg/L			05/01/24 12:14	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			05/02/24 17:33	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			04/30/24 11:35	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			05/10/24 11:14	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-1

**Client Sample ID: MW-U1-20240423**

**Lab Sample ID: 400-255094-1**

**Date Collected: 04/23/24 12:27**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:46
Total/NA	Prep	7470A			836618	DW	EET SAV	05/06/24 16:53
Total/NA	Analysis	7470A		1	836859	DW	EET SAV	05/07/24 14:22
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:31
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:12
Total/NA	Analysis	Field Sampling		1	671263	C1H	EET PEN	04/23/24 11:27

**Client Sample ID: MW-U2-20240423**

**Lab Sample ID: 400-255094-2**

**Date Collected: 04/23/24 12:37**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:50
Total/NA	Prep	7470A			836618	DW	EET SAV	05/06/24 16:53
Total/NA	Analysis	7470A		1	836859	DW	EET SAV	05/07/24 14:24
Total/NA	Analysis	SM 2540C		1	669873	HA	EET PEN	04/30/24 10:15
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:31
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:13
Total/NA	Analysis	Field Sampling		1	671263	C1H	EET PEN	04/23/24 11:37

**Client Sample ID: EB-20240424**

**Lab Sample ID: 400-255094-3**

**Date Collected: 04/24/24 13:20**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:54
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 09:59
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:32
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:14

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

**Client Sample ID: FB-20240424**

**Lab Sample ID: 400-255094-4**

**Date Collected: 04/24/24 12:50**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

<b>Prep Type</b>	<b>Batch Type</b>	<b>Batch Method</b>	<b>Run</b>	<b>Dilution Factor</b>	<b>Batch Number</b>	<b>Analyst</b>	<b>Lab</b>	<b>Prepared or Analyzed</b>
Total Recoverable	Prep	3005A			835692	RR	EET SAV	05/01/24 09:01
Total Recoverable	Analysis	6020B		1	835904	BWR	EET SAV	05/01/24 21:58
Total/NA	Prep	7470A			836157	RS	EET SAV	05/03/24 09:54
Total/NA	Analysis	7470A		1	836331	DW	EET SAV	05/04/24 10:01
Total/NA	Analysis	SM 2540C		1	670073	HA	EET PEN	05/01/24 12:14
Total/NA	Analysis	SM 4500 CI- E		1	670327	CJK	EET PEN	05/02/24 17:33
Total/NA	Analysis	SM 4500 F C		1	669910	JP	EET PEN	04/30/24 11:35
Total/NA	Analysis	SM 4500 SO4 E		1	671139	KWS	EET PEN	05/10/24 11:14

**Laboratory References:**

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Metals

### Prep Batch: 835692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total Recoverable	Water	3005A	
400-255094-2	MW-U2-20240423	Total Recoverable	Water	3005A	
400-255094-3	EB-20240424	Total Recoverable	Water	3005A	
400-255094-4	FB-20240424	Total Recoverable	Water	3005A	
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-255090-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-255090-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Analysis Batch: 835904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total Recoverable	Water	6020B	835692
400-255094-2	MW-U2-20240423	Total Recoverable	Water	6020B	835692
400-255094-3	EB-20240424	Total Recoverable	Water	6020B	835692
400-255094-4	FB-20240424	Total Recoverable	Water	6020B	835692
MB 680-835692/1-A	Method Blank	Total Recoverable	Water	6020B	835692
LCS 680-835692/2-A	Lab Control Sample	Total Recoverable	Water	6020B	835692
400-255090-C-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	835692
400-255090-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	835692

### Prep Batch: 836157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-3	EB-20240424	Total/NA	Water	7470A	
400-255094-4	FB-20240424	Total/NA	Water	7470A	
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255090-C-7-C MS	Matrix Spike	Total/NA	Water	7470A	
400-255090-C-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Analysis Batch: 836331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-3	EB-20240424	Total/NA	Water	7470A	836157
400-255094-4	FB-20240424	Total/NA	Water	7470A	836157
MB 680-836157/1-A	Method Blank	Total/NA	Water	7470A	836157
LCS 680-836157/2-A	Lab Control Sample	Total/NA	Water	7470A	836157
400-255090-C-7-C MS	Matrix Spike	Total/NA	Water	7470A	836157
400-255090-C-7-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	836157

### Prep Batch: 836618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	7470A	
400-255094-2	MW-U2-20240423	Total/NA	Water	7470A	
MB 680-836618/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-836618/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-255088-C-4-C MS	Matrix Spike	Total/NA	Water	7470A	
400-255088-C-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Analysis Batch: 836859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	7470A	836618
400-255094-2	MW-U2-20240423	Total/NA	Water	7470A	836618

Eurofins Pensacola

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Metals (Continued)

### Analysis Batch: 836859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-836618/1-A	Method Blank	Total/NA	Water	7470A	836618
LCS 680-836618/2-A	Lab Control Sample	Total/NA	Water	7470A	836618
400-255088-C-4-C MS	Matrix Spike	Total/NA	Water	7470A	836618
400-255088-C-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	836618

## General Chemistry

### Analysis Batch: 669873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 2540C	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 2540C	
MB 400-669873/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-669873/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254872-D-5 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 669910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 4500 F C	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 4500 F C	
400-255094-3	EB-20240424	Total/NA	Water	SM 4500 F C	
400-255094-4	FB-20240424	Total/NA	Water	SM 4500 F C	
MB 400-669910/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-669910/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-669910/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-255088-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-255088-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-255090-B-5 DU	Duplicate	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 670073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-3	EB-20240424	Total/NA	Water	SM 2540C	
400-255094-4	FB-20240424	Total/NA	Water	SM 2540C	
MB 400-670073/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-670073/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-254881-C-8 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 670327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 4500 CI- E	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 4500 CI- E	
400-255094-3	EB-20240424	Total/NA	Water	SM 4500 CI- E	
400-255094-4	FB-20240424	Total/NA	Water	SM 4500 CI- E	
MB 400-670327/44	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-670327/45	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-670327/46	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-255090-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
400-255090-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	
400-255094-4 MS	FB-20240424	Total/NA	Water	SM 4500 CI- E	
400-255094-4 MSD	FB-20240424	Total/NA	Water	SM 4500 CI- E	



# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## General Chemistry

### Analysis Batch: 671139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255094-2	MW-U2-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255094-3	EB-20240424	Total/NA	Water	SM 4500 SO4 E	
400-255094-4	FB-20240424	Total/NA	Water	SM 4500 SO4 E	
MB 400-671139/27	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-671139/28	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-671139/26	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-255094-1 MS	MW-U1-20240423	Total/NA	Water	SM 4500 SO4 E	
400-255094-1 MSD	MW-U1-20240423	Total/NA	Water	SM 4500 SO4 E	

## Field Service / Mobile Lab

### Analysis Batch: 671263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	Field Sampling	
400-255094-2	MW-U2-20240423	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-835692/1-A**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.000550	J	0.0025	0.00034	mg/L		05/01/24 09:01	05/01/24 20:53	1
Arsenic	ND		0.0013	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Barium	ND		0.0025	0.00089	mg/L		05/01/24 09:01	05/01/24 20:53	1
Beryllium	ND		0.0020	0.00020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Boron	ND		0.050	0.022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cadmium	ND		0.0010	0.000078	mg/L		05/01/24 09:01	05/01/24 20:53	1
Calcium	ND		0.25	0.14	mg/L		05/01/24 09:01	05/01/24 20:53	1
Chromium	ND		0.0025	0.0012	mg/L		05/01/24 09:01	05/01/24 20:53	1
Cobalt	ND		0.0025	0.00022	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lead	ND		0.0013	0.00021	mg/L		05/01/24 09:01	05/01/24 20:53	1
Lithium	ND		0.0025	0.0020	mg/L		05/01/24 09:01	05/01/24 20:53	1
Molybdenum	ND		0.010	0.00086	mg/L		05/01/24 09:01	05/01/24 20:53	1
Selenium	ND		0.0013	0.00099	mg/L		05/01/24 09:01	05/01/24 20:53	1
Thallium	ND		0.00050	0.00026	mg/L		05/01/24 09:01	05/01/24 20:53	1

**Lab Sample ID: LCS 680-835692/2-A**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.108		mg/L		108	80 - 120
Barium	0.100	0.109		mg/L		109	80 - 120
Beryllium	0.0500	0.0567		mg/L		113	80 - 120
Boron	0.400	0.463		mg/L		116	80 - 120
Cadmium	0.0500	0.0561		mg/L		112	80 - 120
Calcium	5.00	5.22		mg/L		104	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.0500	0.0544		mg/L		109	80 - 120
Lead	0.500	0.528		mg/L		106	80 - 120
Lithium	0.500	0.547		mg/L		109	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Thallium	0.0500	0.0511		mg/L		102	80 - 120

**Lab Sample ID: 400-255090-C-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.00042	J B	0.0500	0.0560		mg/L		111	75 - 125
Arsenic	ND		0.100	0.109		mg/L		109	75 - 125
Barium	0.018		0.100	0.130		mg/L		112	75 - 125
Beryllium	ND		0.0500	0.0555		mg/L		111	75 - 125
Boron	0.027	J	0.400	0.455		mg/L		107	75 - 125
Cadmium	ND		0.0500	0.0571		mg/L		114	75 - 125
Calcium	52		5.00	53.8	4	mg/L		44	75 - 125
Chromium	ND		0.100	0.113		mg/L		112	75 - 125
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 400-255090-C-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		0.500	0.513		mg/L		103	75 - 125
Lithium	ND		0.500	0.525		mg/L		105	75 - 125
Molybdenum	ND		0.100	0.108		mg/L		108	75 - 125
Selenium	ND		0.100	0.111		mg/L		111	75 - 125
Thallium	ND		0.0500	0.0520		mg/L		104	75 - 125

**Lab Sample ID: 400-255090-C-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 835904**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 835692**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	0.00042	J B	0.0500	0.0512		mg/L		102	75 - 125	9	20
Arsenic	ND		0.100	0.101		mg/L		101	75 - 125	8	20
Barium	0.018		0.100	0.119		mg/L		101	75 - 125	9	20
Beryllium	ND		0.0500	0.0532		mg/L		106	75 - 125	4	20
Boron	0.027	J	0.400	0.438		mg/L		103	75 - 125	4	20
Cadmium	ND		0.0500	0.0514		mg/L		103	75 - 125	10	20
Calcium	52		5.00	48.7	4	mg/L		-59	75 - 125	10	20
Chromium	ND		0.100	0.103		mg/L		103	75 - 125	9	20
Cobalt	ND		0.0500	0.0511		mg/L		102	75 - 125	7	20
Lead	ND		0.500	0.496		mg/L		99	75 - 125	3	20
Lithium	ND		0.500	0.507		mg/L		101	75 - 125	3	20
Molybdenum	ND		0.100	0.0982		mg/L		98	75 - 125	9	20
Selenium	ND		0.100	0.102		mg/L		102	75 - 125	8	20
Thallium	ND		0.0500	0.0481		mg/L		96	75 - 125	8	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 680-836157/1-A**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/03/24 09:54	05/03/24 20:07	1

**Lab Sample ID: LCS 680-836157/2-A**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

**Lab Sample ID: 400-255090-C-7-C MS**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00104		mg/L		104	80 - 120

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 400-255090-C-7-D MSD**  
**Matrix: Water**  
**Analysis Batch: 836331**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 836157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00103		mg/L		103	80 - 120	1	20

**Lab Sample ID: MB 680-836618/1-A**  
**Matrix: Water**  
**Analysis Batch: 836859**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 836618**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000080	mg/L		05/06/24 16:53	05/07/24 14:11	1

**Lab Sample ID: LCS 680-836618/2-A**  
**Matrix: Water**  
**Analysis Batch: 836859**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 836618**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

**Lab Sample ID: 400-255088-C-4-C MS**  
**Matrix: Water**  
**Analysis Batch: 836859**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 836618**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.00101		mg/L		101	80 - 120

**Lab Sample ID: 400-255088-C-4-D MSD**  
**Matrix: Water**  
**Analysis Batch: 836859**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 836618**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.00102		mg/L		102	80 - 120	2	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 400-669873/1**  
**Matrix: Water**  
**Analysis Batch: 669873**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			04/30/24 10:15	1

**Lab Sample ID: LCS 400-669873/2**  
**Matrix: Water**  
**Analysis Batch: 669873**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	286		mg/L		98	78 - 122

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: 400-254872-D-5 DU**  
**Matrix: Water**  
**Analysis Batch: 669873**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	440		434		mg/L		2	5

**Lab Sample ID: MB 400-670073/1**  
**Matrix: Water**  
**Analysis Batch: 670073**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			05/01/24 12:14	1

**Lab Sample ID: LCS 400-670073/2**  
**Matrix: Water**  
**Analysis Batch: 670073**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	268		mg/L		91	78 - 122

**Lab Sample ID: 400-254881-C-8 DU**  
**Matrix: Water**  
**Analysis Batch: 670073**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		194		mg/L		2	5

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 400-670327/44**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			05/02/24 17:24	1

**Lab Sample ID: LCS 400-670327/45**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.8		mg/L		96	90 - 110

**Lab Sample ID: MRL 400-670327/46**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.87		mg/L		143	50 - 150

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: SM 4500 Cl- E - Chloride, Total (Continued)

**Lab Sample ID: 400-255090-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		10.0	10.5		mg/L		105	73 - 120

**Lab Sample ID: 400-255090-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		10.0	10.7		mg/L		107	73 - 120	3	8

**Lab Sample ID: 400-255094-4 MS**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: FB-20240424**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		10.0	8.63		mg/L		86	73 - 120

**Lab Sample ID: 400-255094-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 670327**

**Client Sample ID: FB-20240424**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		10.0	8.72		mg/L		87	73 - 120	1	8

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 400-669910/9**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			04/30/24 11:35	1

**Lab Sample ID: LCS 400-669910/11**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.95		mg/L		99	90 - 110

**Lab Sample ID: MRL 400-669910/10**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.0917	J	mg/L		92	50 - 150

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: 400-255088-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.047	J	0.100	0.137		mg/L		90	75 - 125

**Lab Sample ID: 400-255088-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.047	J	0.100	0.131		mg/L		85	75 - 125	4	4

**Lab Sample ID: 400-255090-B-5 DU**  
**Matrix: Water**  
**Analysis Batch: 669910**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.050	J	0.0504	J	mg/L		0	4

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 400-671139/27**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			05/10/24 11:11	1

**Lab Sample ID: LCS 400-671139/28**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	13.9		mg/L		93	90 - 110

**Lab Sample ID: MRL 400-671139/26**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.59	J	mg/L		92	50 - 150

**Lab Sample ID: 400-255094-1 MS**  
**Matrix: Water**  
**Analysis Batch: 671139**

**Client Sample ID: MW-U1-20240423**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.3	J	10.0	11.5		mg/L		92	77 - 128

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-255094-1 MSD  
 Matrix: Water  
 Analysis Batch: 671139

Client Sample ID: MW-U1-20240423  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.3	J	10.0	11.6		mg/L		92	77 - 128	0	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



**Eurofins Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone: 850-474-1001 Fax: 850-478-2671

**Chain of Custody Record**



Environment Testing



Sampler: Tristan H & Zain W Lab PM: Whitmore, Cheyenne R  
 Client Contact: Dawit Yifru Phone: 678-718-4739 PWSID:  
 State of Origin: GA

Address: 1255 Roberts Blvd, NW Suite 200  
 City: Kennesaw  
 State, Zip: GA, 30144  
 Phone: 770-371-6027  
 Email: dyifru@geosyntec.com  
 Project Name: CCR App.III/IV GW Monitoring Crisp Co  
 Site: CRISP COUNTY POWER

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swallow, Other)	Analysis Requested	Special Instructions/Note
<u>MW-U1-20240423</u>	<u>04/23/24</u>	<u>12:27</u>	<u>G</u>	<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	<u>pH = 7.92</u>
<u>MW-U2-20240423</u>	<u>04/23/24</u>	<u>12:37</u>	<u>G</u>	<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	<u>pH = 7.37</u>
<u>EB-20240424</u>	<u>04/24/24</u>	<u>13:20</u>	<u>G</u>	<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
<u>EB-20240424</u>	<u>04/24/24</u>	<u>12:50</u>	<u>G</u>	<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	
				<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: Tristan Harkerman Date/Time: 4/25/24 11:30  
 Received by: Geosyntec Company: Geosyntec  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Company: \_\_\_\_\_



# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255094-1

**Login Number: 255094**

**List Source: Eurofins Pensacola**

**List Number: 1**

**Creator: Pardonner, Brett**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	5.4°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

## Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-1

## Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 6/4/2024 5:42:47 PM

**JOB DESCRIPTION**

Crisp County Power

**JOB NUMBER**

400-255094-2

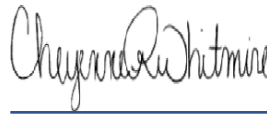
# Eurofins Pensacola

## 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  
6/4/2024 5:42:47 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	10
Chronicle . . . . .	11
QC Association . . . . .	12
QC Sample Results . . . . .	13
Chain of Custody . . . . .	15
Receipt Checklists . . . . .	16
Certification Summary . . . . .	17

# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

#### Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-255094-1	MW-U1-20240423	Water	04/23/24 12:27	04/26/24 09:03
400-255094-2	MW-U2-20240423	Water	04/23/24 12:37	04/26/24 09:03
400-255094-3	EB-20240424	Water	04/24/24 13:20	04/26/24 09:03
400-255094-4	FB-20240424	Water	04/24/24 12:50	04/26/24 09:03

---

1

2

3

4

5

6

7

8

9

10

11

12

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-2

**Client Sample ID: MW-U1-20240423**

**Lab Sample ID: 400-255094-1**

Date Collected: 04/23/24 12:27

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00597	U	0.0504	0.0504	1.00	0.105	pCi/L	05/02/24 08:25	06/03/24 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:25	06/03/24 12:21	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.156	U	0.236	0.237	1.00	0.501	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	76.3		30 - 110					05/02/24 08:31	05/29/24 11:54	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.150	U	0.241	0.242	5.00	0.501	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

**Client Sample ID: MW-U2-20240423**

**Lab Sample ID: 400-255094-2**

Date Collected: 04/23/24 12:37

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00326	U	0.0641	0.0641	1.00	0.131	pCi/L	05/02/24 08:25	06/03/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					05/02/24 08:25	06/03/24 12:11	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.153	U	0.276	0.277	1.00	0.478	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	77.4		30 - 110					05/02/24 08:31	05/29/24 11:54	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.150	U	0.283	0.284	5.00	0.478	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-2

**Client Sample ID: EB-20240424**

**Lab Sample ID: 400-255094-3**

Date Collected: 04/24/24 13:20

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0351	U	0.0756	0.0757	1.00	0.136	pCi/L	05/02/24 08:25	06/03/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					05/02/24 08:25	06/03/24 12:11	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.235	U	0.293	0.294	1.00	0.486	pCi/L	05/02/24 08:31	05/29/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					05/02/24 08:31	05/29/24 11:54	1
Y Carrier	79.6		30 - 110					05/02/24 08:31	05/29/24 11:54	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.270	U	0.303	0.304	5.00	0.486	pCi/L		06/04/24 07:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-2

**Client Sample ID: FB-20240424**

**Lab Sample ID: 400-255094-4**

Date Collected: 04/24/24 12:50

Matrix: Water

Date Received: 04/26/24 09:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00173	U	0.0628	0.0628	1.00	0.130	pCi/L	05/02/24 08:25	06/03/24 13:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					05/02/24 08:25	06/03/24 13:45	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0397	U	0.287	0.287	1.00	0.552	pCi/L	05/02/24 08:31	05/29/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					05/02/24 08:31	05/29/24 11:55	1
Y Carrier	77.0		30 - 110					05/02/24 08:31	05/29/24 11:55	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0415	U	0.294	0.294	5.00	0.552	pCi/L		06/04/24 07:23	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

**Client Sample ID: MW-U1-20240423**

**Lab Sample ID: 400-255094-1**

**Date Collected: 04/23/24 12:27**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664450	SWS	EET SL	06/03/24 12:21
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: MW-U2-20240423**

**Lab Sample ID: 400-255094-2**

**Date Collected: 04/23/24 12:37**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664451	SCB	EET SL	06/03/24 12:11
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: EB-20240424**

**Lab Sample ID: 400-255094-3**

**Date Collected: 04/24/24 13:20**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664451	SCB	EET SL	06/03/24 12:11
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:54
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Client Sample ID: FB-20240424**

**Lab Sample ID: 400-255094-4**

**Date Collected: 04/24/24 12:50**

**Matrix: Water**

**Date Received: 04/26/24 09:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			659657	MLT	EET SL	05/02/24 08:25
Total/NA	Analysis	9315		1	664292	SCB	EET SL	06/03/24 13:45
Total/NA	Prep	PrecSep_0			659660	MLT	EET SL	05/02/24 08:31
Total/NA	Analysis	9320		1	663740	SCB	EET SL	05/29/24 11:55
Total/NA	Analysis	Ra226_Ra228		1	664520	FLC	EET SL	06/04/24 07:23

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

## Rad

### Prep Batch: 659657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	PrecSep-21	
400-255094-2	MW-U2-20240423	Total/NA	Water	PrecSep-21	
400-255094-3	EB-20240424	Total/NA	Water	PrecSep-21	
400-255094-4	FB-20240424	Total/NA	Water	PrecSep-21	
MB 160-659657/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-659657/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-203565-K-9-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-203565-L-9-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	

### Prep Batch: 659660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-255094-1	MW-U1-20240423	Total/NA	Water	PrecSep_0	
400-255094-2	MW-U2-20240423	Total/NA	Water	PrecSep_0	
400-255094-3	EB-20240424	Total/NA	Water	PrecSep_0	
400-255094-4	FB-20240424	Total/NA	Water	PrecSep_0	
MB 160-659660/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-659660/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-203565-K-9-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-203565-L-9-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	



# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power

Job ID: 400-255094-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-659657/1-A**  
**Matrix: Water**  
**Analysis Batch: 664291**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)							
Radium-226	0.005333	U	0.0721	0.0721	1.00	0.143	pCi/L	05/02/24 08:25	06/02/24 15:27	1	
Carrier		MB MB	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier		%Yield 97.7	Qualifier	30 - 110			05/02/24 08:25	06/02/24 15:27	1		

**Lab Sample ID: LCS 160-659657/2-A**  
**Matrix: Water**  
**Analysis Batch: 664291**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	LCS LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits	RER	Limit
	Result	Qualifier	Added	Result	Uncert. (2σ+/-)								
Radium-226			11.3	9.948	1.08	1.00	0.151	pCi/L	88	75 - 125			
Carrier		LCS LCS	Limits										
Ba Carrier		%Yield 99.5	Qualifier	30 - 110									

**Lab Sample ID: 240-203565-K-9-A MSD**  
**Matrix: Water**  
**Analysis Batch: 664450**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	Sample Sample		Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	Limits	RER	Limit
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)								
Radium-226	0.0717	U	11.3	8.757		0.961	1.00	0.120	pCi/L	77	60 - 140	0.40	1	
Carrier		MSD MSD	Limits											
Ba Carrier		%Yield 98.2	Qualifier	30 - 110										

**Lab Sample ID: 240-203565-L-9-A MS**  
**Matrix: Water**  
**Analysis Batch: 664450**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 659657**

Analyte	Sample Sample		Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec	Limits	RER	Limit
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)								
Radium-226	0.0717	U	11.3	9.557		1.04	1.00	0.126	pCi/L	84	60 - 140			
Carrier		MS MS	Limits											
Ba Carrier		%Yield 98.7	Qualifier	30 - 110										

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-659660/1-A**  
**Matrix: Water**  
**Analysis Batch: 663739**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2869	U	0.352	0.353	1.00	0.582	pCi/L	05/02/24 08:31	05/29/24 11:54	1

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	97.7		30 - 110	05/02/24 08:31	05/29/24 11:54	1
Y Carrier	72.9		30 - 110	05/02/24 08:31	05/29/24 11:54	1

**Lab Sample ID: LCS 160-659660/2-A**  
**Matrix: Water**  
**Analysis Batch: 663739**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	99.5		30 - 110
Y Carrier	77.4		30 - 110

**Lab Sample ID: 240-203565-K-9-B MSD**  
**Matrix: Water**  
**Analysis Batch: 663733**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit

Carrier	MSD MSD		Limits
	%Yield	Qualifier	
Ba Carrier	98.2		30 - 110
Y Carrier	73.3		30 - 110

**Lab Sample ID: 240-203565-L-9-B MS**  
**Matrix: Water**  
**Analysis Batch: 663733**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 659660**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	MS MS		Limits
	%Yield	Qualifier	
Ba Carrier	98.7		30 - 110
Y Carrier	80.0		30 - 110

**Eurofins Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone: 850-474-1001 Fax: 850-478-2671

**Chain of Custody Record**



Environment Testing



Sampler: Tristan H & Zain W Lab PM: Whitmore, Cheyenne R  
 Client Contact: Dawit Yifru Phone: 678-718-4739 PWSID:  
 State of Origin: GA

Address: 1255 Roberts Blvd, NW Suite 200  
 City: Kennesaw  
 State, Zip: GA, 30144  
 Phone: 770-371-6027  
 Email: dyifru@geosyntec.com  
 Project Name: CCR App.III/IV GW Monitoring Crisp Co  
 Site: CRISP COUNTY POWER

Due Date Requested:  
 TAT Requested (days): standard  
 Compliance Project:  Yes  No  
 PO #: Purchase Order not required  
 WO #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swallow, Other/Soil, I=In-Tissue, A=Air)	Analysis Requested	Special Instructions/Note:
<u>MW-U1-20240423</u>	<u>04/23/24</u>	<u>12:27</u>	<u>G</u>	<u>Water</u>	<u>9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc</u>	<u>pH = 7.92</u>
<u>MW-U2-20240423</u>	<u>04/23/24</u>	<u>12:37</u>	<u>G</u>	<u>Water</u>	<u>6020_Sb,As,Ba,Ba,Cd,Cr,Cu,Li,Pb,Tl,Sa,Mo</u>	<u>pH = 7.37</u>
<u>EB-20240424</u>	<u>04/24/24</u>	<u>13:20</u>	<u>G</u>	<u>Water</u>	<u>7470A - Mercury</u>	
<u>EB-20240424</u>	<u>04/24/24</u>	<u>13:50</u>	<u>G</u>	<u>Water</u>	<u>4500_F_C - Fluoride</u>	
				<u>Water</u>	<u>2540C - Total Dissolved Solids</u>	
				<u>Water</u>	<u>SM4500_SO4_E - Sulfate</u>	
				<u>Water</u>	<u>Field Sampling - Field pH</u>	
				<u>Water</u>		
				<u>Water</u>		
				<u>Water</u>		
				<u>Water</u>		
				<u>Water</u>		
				<u>Water</u>		

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: Tristan H & Zain W Date/Time: 4/25/24 11:30  
 Received by: Geosyntec Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: 4/16/24 9:03



# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-255094-2

**Login Number: 255094**

**List Source: Eurofins Pensacola**

**List Number: 1**

**Creator: Pardonner, Brett**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	5.4°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power

Job ID: 400-255094-2

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

October 2024

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 11/18/2024 5:40:19 PM Revision 1

## JOB DESCRIPTION

Crisp County Power Commission

## JOB NUMBER

400-264607-1

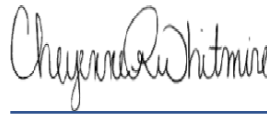
# Eurofins Pensacola

## 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



Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222

Generated  
11/18/2024 5:40:19 PM  
Revision 1





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Method Summary . . . . .	6
Sample Summary . . . . .	7
Client Sample Results . . . . .	8
Definitions . . . . .	12
Chronicle . . . . .	13
QC Association . . . . .	15
QC Sample Results . . . . .	17
Chain of Custody . . . . .	22
Receipt Checklists . . . . .	23
Certification Summary . . . . .	24

# Case Narrative

Client: Geosyntec Consultants Inc  
Project: Crisp County Power Commission

Job ID: 400-264607-1

**Job ID: 400-264607-1**

**Eurofins Pensacola**

## Job Narrative 400-264607-1

### Receipt

The samples were received on 10/19/2024 8:03 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 was 0.7° C.

### Metals

Method 6020B: The interference check standard solution (ICSA) associated with the following samples showed results for barium at a level greater than the reporting limit (RL). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (MB 680-860946/1-A)

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

### Revision

The report being provided is a revision of the original report sent on 10/25/2024. The report (revision 1) is being revised due to: Client requested Boron, Calcium, TDS, Chloride and Sulfate be added to the report.

### General Chemistry

Method SM 2540C: Total Dissolved Solids (TDS) was requested outside the method holding time for the following samples: MW-U1-20241016 (400-264607-1), MW-U2-20241016 (400-264607-2), EB-20241016 (400-264607-3) and FB-20241016 (400-264607-4).

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

Eurofins Pensacola

# Detection Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Client Sample ID: MW-U1-20241016

## Lab Sample ID: 400-264607-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0022	J ^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0022	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Calcium	38		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	110	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.064	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.3	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.95				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-U2-20241016

## Lab Sample ID: 400-264607-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0042		0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Selenium	0.0013		0.0013	0.00099	mg/L	1		6020B	Total Recoverable
Calcium	14		0.25	0.14	mg/L	1		6020B	Total Recoverable
Boron	0.023	J	0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	80	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.040	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	20		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.22				SU	1		Field Sampling	Total/NA

## Client Sample ID: EB-20241016

## Lab Sample ID: 400-264607-3

No Detections.

## Client Sample ID: FB-20241016

## Lab Sample ID: 400-264607-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

#### Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264607-1	MW-U1-20241016	Water	10/16/24 12:17	10/19/24 08:03
400-264607-2	MW-U2-20241016	Water	10/16/24 12:35	10/19/24 08:03
400-264607-3	EB-20241016	Water	10/16/24 16:30	10/19/24 08:03
400-264607-4	FB-20241016	Water	10/16/24 16:20	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

**Client Sample ID: MW-U1-20241016**

**Lab Sample ID: 400-264607-1**

Date Collected: 10/16/24 12:17

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:15	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:15	1
<b>Barium</b>	<b>0.0022</b>	<b>J ^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:15	1
<b>Chromium</b>	<b>0.0022</b>	<b>J</b>	0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:15	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:15	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:15	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:15	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:15	1
<b>Calcium</b>	<b>38</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:15	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>110</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:03	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.064</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 11:51	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>2.3</b>	<b>J</b>	5.0	1.4	mg/L			11/10/24 17:19	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.95</b>				SU			10/16/24 11:17	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

**Client Sample ID: MW-U2-20241016**

**Lab Sample ID: 400-264607-2**

Date Collected: 10/16/24 12:35

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:18	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:18	1
<b>Barium</b>	<b>0.015</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:18	1
<b>Chromium</b>	<b>0.0042</b>		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:18	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:18	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:18	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:18	1
<b>Selenium</b>	<b>0.0013</b>		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:18	1
<b>Calcium</b>	<b>14</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:18	1
<b>Boron</b>	<b>0.023</b>	<b>J</b>	0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>80</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:05	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.040</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 11:59	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>20</b>		5.0	1.4	mg/L			11/10/24 17:21	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.22</b>				SU			10/16/24 11:35	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

**Client Sample ID: EB-20241016**

**Lab Sample ID: 400-264607-3**

Date Collected: 10/16/24 16:30

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:46	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:46	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:46	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:46	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:46	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:46	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:46	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:46	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:46	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:05	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			10/21/24 12:02	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/10/24 17:21	1



# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

**Client Sample ID: FB-20241016**

**Lab Sample ID: 400-264607-4**

Date Collected: 10/16/24 16:20

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:21	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:21	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:21	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:21	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:21	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:21	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:21	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:21	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:21	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND	H	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:06	1
Fluoride (SM 4500 F C)	ND		0.10	0.022	mg/L			10/21/24 12:05	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/10/24 17:22	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

**Client Sample ID: MW-U1-20241016**

**Lab Sample ID: 400-264607-1**

**Date Collected: 10/16/24 12:17**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:15
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:03
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 11:51
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:19
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 11:17

**Client Sample ID: MW-U2-20241016**

**Lab Sample ID: 400-264607-2**

**Date Collected: 10/16/24 12:35**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:18
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:05
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 11:59
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:21
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/16/24 11:35

**Client Sample ID: EB-20241016**

**Lab Sample ID: 400-264607-3**

**Date Collected: 10/16/24 16:30**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:46
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:05
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:02
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:21

**Client Sample ID: FB-20241016**

**Lab Sample ID: 400-264607-4**

**Date Collected: 10/16/24 16:20**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:21
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:06
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:05

Eurofins Pensacola

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

**Client Sample ID: FB-20241016**

**Lab Sample ID: 400-264607-4**

**Date Collected: 10/16/24 16:20**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:22

**Laboratory References:**

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Association Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Metals

### Prep Batch: 860946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total Recoverable	Water	3005A	
400-264607-2	MW-U2-20241016	Total Recoverable	Water	3005A	
400-264607-3	EB-20241016	Total Recoverable	Water	3005A	
400-264607-4	FB-20241016	Total Recoverable	Water	3005A	
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-264608-C-10-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-264608-C-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Analysis Batch: 861224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total Recoverable	Water	6020B	860946
400-264607-2	MW-U2-20241016	Total Recoverable	Water	6020B	860946
400-264607-3	EB-20241016	Total Recoverable	Water	6020B	860946
400-264607-4	FB-20241016	Total Recoverable	Water	6020B	860946
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	6020B	860946
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	6020B	860946
400-264608-C-10-B MS	Matrix Spike	Total Recoverable	Water	6020B	860946
400-264608-C-10-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	860946

## General Chemistry

### Analysis Batch: 688602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 4500 F C	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 4500 F C	
400-264607-3	EB-20241016	Total/NA	Water	SM 4500 F C	
400-264607-4	FB-20241016	Total/NA	Water	SM 4500 F C	
MB 400-688602/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-688602/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-688602/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-264607-1 MS	MW-U1-20241016	Total/NA	Water	SM 4500 F C	
400-264607-1 MSD	MW-U1-20241016	Total/NA	Water	SM 4500 F C	
400-264608-B-7 DU	Duplicate	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 690743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 4500 CI- E	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 4500 CI- E	
400-264607-3	EB-20241016	Total/NA	Water	SM 4500 CI- E	
400-264607-4	FB-20241016	Total/NA	Water	SM 4500 CI- E	
MB 400-690743/13	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-690743/14	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-690743/43	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-264607-1 MS	MW-U1-20241016	Total/NA	Water	SM 4500 CI- E	
400-264607-1 MSD	MW-U1-20241016	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 690748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 4500 SO4 E	

Eurofins Pensacola

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## General Chemistry (Continued)

### Analysis Batch: 690748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-3	EB-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264607-4	FB-20241016	Total/NA	Water	SM 4500 SO4 E	
MB 400-690748/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-690748/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-690748/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-264607-1 MS	MW-U1-20241016	Total/NA	Water	SM 4500 SO4 E	
400-264607-1 MSD	MW-U1-20241016	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 691026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	SM 2540C	
400-264607-2	MW-U2-20241016	Total/NA	Water	SM 2540C	
400-264607-3	EB-20241016	Total/NA	Water	SM 2540C	
400-264607-4	FB-20241016	Total/NA	Water	SM 2540C	
MB 400-691026/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-691026/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-264608-B-4 DU	Duplicate	Total/NA	Water	SM 2540C	
400-264608-B-6 DU	Duplicate	Total/NA	Water	SM 2540C	

## Field Service / Mobile Lab

### Analysis Batch: 688810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	Field Sampling	
400-264607-2	MW-U2-20241016	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-860946/1-A**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:03	1
Arsenic	ND		0.0013	0.00086	mg/L		10/24/24 07:13	10/24/24 17:03	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:03	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:03	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:03	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:03	1
Molybdenum	ND		0.010	0.00086	mg/L		10/24/24 07:13	10/24/24 17:03	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:03	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:03	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:03	1

**Lab Sample ID: LCS 680-860946/2-A**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0501		mg/L		100	80 - 120
Arsenic	0.100	0.0982		mg/L		98	80 - 120
Barium	0.100	0.101	^6+	mg/L		101	80 - 120
Chromium	0.100	0.101		mg/L		101	80 - 120
Cobalt	0.0500	0.0536		mg/L		107	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Molybdenum	0.100	0.105		mg/L		105	80 - 120
Selenium	0.100	0.0965		mg/L		97	80 - 120
Calcium	5.00	4.95		mg/L		99	80 - 120

**Lab Sample ID: 400-264608-C-10-B MS**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0511		mg/L		102	75 - 125
Arsenic	ND		0.100	0.104		mg/L		104	75 - 125
Barium	0.038	^6+	0.100	0.143	^6+	mg/L		105	75 - 125
Chromium	ND		0.100	0.108		mg/L		108	75 - 125
Cobalt	ND		0.0500	0.0528		mg/L		106	75 - 125
Lead	ND		0.500	0.524		mg/L		105	75 - 125
Molybdenum	ND		0.100	0.103		mg/L		103	75 - 125
Selenium	ND		0.100	0.105		mg/L		105	75 - 125
Calcium	57		5.00	58.5	4	mg/L		35	75 - 125
Boron	ND	F1	0.400	0.543	F1	mg/L		136	75 - 125

**Lab Sample ID: 400-264608-C-10-C MSD**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0535		mg/L		107	75 - 125	5	20
Arsenic	ND		0.100	0.110		mg/L		110	75 - 125	5	20

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-264608-C-10-C MSD  
 Matrix: Water  
 Analysis Batch: 861224

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total Recoverable  
 Prep Batch: 860946

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Barium	0.038	^6+	0.100	0.152	^6+	mg/L		114	75 - 125	6	20	
Chromium	ND		0.100	0.112		mg/L		112	75 - 125	3	20	
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125	4	20	
Lead	ND		0.500	0.553		mg/L		111	75 - 125	5	20	
Molybdenum	ND		0.100	0.107		mg/L		107	75 - 125	4	20	
Selenium	ND		0.100	0.108		mg/L		108	75 - 125	3	20	
Calcium	57		5.00	62.5	4	mg/L		115	75 - 125	7	20	
Boron	ND	F1	0.400	0.576	F1	mg/L		144	75 - 125	6	20	

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-691026/1  
 Matrix: Water  
 Analysis Batch: 691026

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	ND		5.0	5.0	mg/L			11/13/24 07:29	1

Lab Sample ID: LCS 400-691026/2  
 Matrix: Water  
 Analysis Batch: 691026

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Total Dissolved Solids	293	282		mg/L		96	78 - 122	

Lab Sample ID: 400-264608-B-4 DU  
 Matrix: Water  
 Analysis Batch: 691026

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	370		350		mg/L		4	5

Lab Sample ID: 400-264608-B-6 DU  
 Matrix: Water  
 Analysis Batch: 691026

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	130		134		mg/L		3	5

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-690743/13  
 Matrix: Water  
 Analysis Batch: 690743

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		2.0	1.4	mg/L			11/10/24 16:01	1

Eurofins Pensacola



# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Method: SM 4500 Cl- E - Chloride, Total (Continued)

**Lab Sample ID: LCS 400-690743/14**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	46.2		mg/L		92	90 - 110

**Lab Sample ID: MRL 400-690743/43**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.05		mg/L		103	50 - 150

**Lab Sample ID: 400-264607-1 MS**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		20.0	18.8		mg/L		94	73 - 120

**Lab Sample ID: 400-264607-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	ND		20.0	18.8		mg/L		94	73 - 120	0	8

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 400-688602/9**  
**Matrix: Water**  
**Analysis Batch: 688602**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			10/21/24 11:43	1

**Lab Sample ID: LCS 400-688602/11**  
**Matrix: Water**  
**Analysis Batch: 688602**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.98	4.75		mg/L		95	90 - 110

**Lab Sample ID: MRL 400-688602/10**  
**Matrix: Water**  
**Analysis Batch: 688602**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.102		mg/L		101	50 - 150

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: 400-264607-1 MS**  
**Matrix: Water**  
**Analysis Batch: 688602**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.064	J	0.100	0.161		mg/L		97	75 - 125

**Lab Sample ID: 400-264607-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 688602**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.064	J	0.100	0.167		mg/L		103	75 - 125	4	4

**Lab Sample ID: 400-264608-B-7 DU**  
**Matrix: Water**  
**Analysis Batch: 688602**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.090	J	0.0940	J	mg/L		4	4

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 400-690748/12**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			11/10/24 17:18	1

**Lab Sample ID: LCS 400-690748/13**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	16.2		mg/L		108	90 - 110

**Lab Sample ID: MRL 400-690748/14**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.87	J	mg/L		97	50 - 150

**Lab Sample ID: 400-264607-1 MS**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.3	J	10.0	12.9		mg/L		106	77 - 128

# QC Sample Results

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-264607-1 MSD  
Matrix: Water  
Analysis Batch: 690748

Client Sample ID: MW-U1-20241016  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.3	J	10.0	13.4		mg/L		112	77 - 128	4	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

**Eurofins Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Phone (850) 478-2671

## Chain of Custody Record



Environment Testing

<b>Client Information</b>		Lab PM: Whitmire, Chylene R		COC No: 400-134357-29334.1	
Sampler: Derya Genc & Zain Webb		Phone: 515-708-3635		Page: 1 of 1	
Company: Geosyntec Consultants Inc		E-Mail: Chylene.R.Whitmire@eurofins.com		Job #: GA	
Address: 1255 Roberts Blvd, NW Suite 200		City: Kennesaw		State: GA, Zip: 30144	
Phone: 770-371-6027		Email: dyiru@geosyntec.com		Project Name: CCR App.III/IV GW Monitoring Crisp Co	
Site: Crisp County Power Commission		Project #: 40007960		SSOW#:	
Due Date Requested:		TAT Requested (days): Standard		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
PO #:		Purchase Order not required		WO #:	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
MW-U1 - 20241016		10-16-24 1217		G Water	
MW-U2 - 20241016		10-16-24 1235		G Water	
EB-20241016		10-16-24 1630		G Water	
FB-20241016		10-16-24 1620		G Water	
<b>Sample Identification</b>		<b>Sample Time</b>		<b>Sample Type</b>	
MW-U1 - 20241016		10-16-24 1217		G Water	
MW-U2 - 20241016		10-16-24 1235		G Water	
EB-20241016		10-16-24 1630		G Water	
FB-20241016		10-16-24 1620		G Water	
<b>Preservation Codes</b>		<b>Sample Type</b>		<b>Matrix</b>	
9315 Ra226, 9320 Ra228, Ra226Ra228 GPPC		G		Water	
SM4500 Cl <sup>-</sup> Chloride		G		Water	
6020 Sp,As,Ba,Be,Ca,Cd,Cr,Cu,Li,Pb,Tl,Se,Mo		G		Water	
7470A - Mercury		G		Water	
2540C - Total Dissolved Solids		G		Water	
4500 F <sup>-</sup> Fluoride		G		Water	
SM4500 SO <sub>4</sub> E - Sulfate		G		Water	
Field Sampling - Field pH		G		Water	
Field Filtered Sample (Yes or No)		G		Water	
Total Number of Containers		pH = 7.95		pH = 7.22	
Special Instructions/Note:		Zw		Zw	
Preservation Codes: D - HNO3 N - None		Other:		Special Instructions/Note:	
Analysis Requested		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Archive For _____ Months	
Return To Client <input type="checkbox"/>		Disposal By Lab <input type="checkbox"/>		Special Instructions/QC Requirements:	
Method of Shipment:		Date/Time:		Company:	
Received by: Geosyntec		Date/Time: 10-18-24 0930		Company: Geosyntec	
Received by: Zain Webb		Date/Time: 10-19-24 803		Company: Geosyntec	
Received by: Zain Webb		Date/Time: 10-19-24 803		Company: Geosyntec	
Cooler Temperature(s) °C and Other Remarks:		0.7°C		Zw	

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264607-1

**Login Number: 264607**

**List Source: Eurofins Pensacola**

**List Number: 1**

**Creator: Perez, Trina M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.7°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

## Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-25
ANAB	Dept. of Defense ELAP	L2463	09-22-26
Arkansas (DW)	State	GA00006	06-30-25
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25
Georgia (DW)	State	803	06-30-25
Guam	State	24-05R	04-17-25
Hawaii	State	<cert No.>	06-30-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	108138	06-30-24 *
Louisiana (All)	NELAP	30690	06-30-25
Louisiana (DW)	State	LA009	12-31-24
Maryland	State	250	12-31-24
Michigan	State	9925	03-05-25
Mississippi	State	<cert No.>	06-30-25
Nebraska	State	NE-OS-7-04	06-30-25
New Mexico	State	GA00006	06-30-25
North Carolina (DW)	State	13701	07-31-25
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-1

## Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24 *
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25
Wyoming	State	8TMS-L	06-30-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 11/22/2024 4:50:09 PM

## JOB DESCRIPTION

Crisp County Power Commission

## JOB NUMBER

400-264607-2



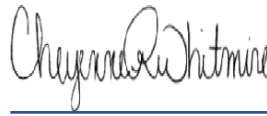
# Eurofins Pensacola

## 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  
11/22/2024 4:50:09 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	10
Chronicle . . . . .	11
QC Association . . . . .	12
QC Sample Results . . . . .	13
Chain of Custody . . . . .	15
Receipt Checklists . . . . .	16
Certification Summary . . . . .	17

# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

#### Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264607-1	MW-U1-20241016	Water	10/16/24 12:17	10/19/24 08:03
400-264607-2	MW-U2-20241016	Water	10/16/24 12:35	10/19/24 08:03
400-264607-3	EB-20241016	Water	10/16/24 16:30	10/19/24 08:03
400-264607-4	FB-20241016	Water	10/16/24 16:20	10/19/24 08:03

---

1

2

3

4

5

6

7

8

9

10

11

12

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

**Client Sample ID: MW-U1-20241016**

**Lab Sample ID: 400-264607-1**

Date Collected: 10/16/24 12:17

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0793	U	0.0573	0.0578	1.00	0.179	pCi/L	10/29/24 08:31	11/20/24 21:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					10/29/24 08:31	11/20/24 21:27	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0824	U	0.338	0.338	1.00	0.648	pCi/L	10/29/24 08:35	11/18/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					10/29/24 08:35	11/18/24 12:17	1
Y Carrier	82.6		30 - 110					10/29/24 08:35	11/18/24 12:17	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.162	U	0.343	0.343	5.00	0.648	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

**Client Sample ID: MW-U2-20241016**

**Lab Sample ID: 400-264607-2**

Date Collected: 10/16/24 12:35

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0698	U	0.0534	0.0538	1.00	0.176	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					10/29/24 08:31	11/20/24 21:29	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0165	U	0.380	0.380	1.00	0.720	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	78.9		30 - 110					10/29/24 08:35	11/18/24 14:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0533	U	0.384	0.384	5.00	0.720	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

**Client Sample ID: EB-20241016**

**Lab Sample ID: 400-264607-3**

Date Collected: 10/16/24 16:30

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0454	U	0.0666	0.0667	1.00	0.173	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					10/29/24 08:31	11/20/24 21:29	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.367	U	0.506	0.507	1.00	0.847	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	74.8		30 - 110					10/29/24 08:35	11/18/24 14:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.322	U	0.510	0.511	5.00	0.847	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

**Client Sample ID: FB-20241016**

**Lab Sample ID: 400-264607-4**

Date Collected: 10/16/24 16:20

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00886	U	0.0823	0.0823	1.00	0.185	pCi/L	10/29/24 08:31	11/20/24 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		30 - 110					10/29/24 08:31	11/20/24 21:29	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.160	U	0.454	0.454	1.00	0.887	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	80.0		30 - 110					10/29/24 08:35	11/18/24 14:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.169	U	0.461	0.461	5.00	0.887	pCi/L		11/22/24 15:43	1



# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

**Client Sample ID: MW-U1-20241016**  
**Date Collected: 10/16/24 12:17**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264607-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:27
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689004	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: MW-U2-20241016**  
**Date Collected: 10/16/24 12:35**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264607-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: EB-20241016**  
**Date Collected: 10/16/24 16:30**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264607-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: FB-20241016**  
**Date Collected: 10/16/24 16:20**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264607-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689479	SCB	EET SL	11/20/24 21:29
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

## Rad

### Prep Batch: 685741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	PrecSep-21	
400-264607-2	MW-U2-20241016	Total/NA	Water	PrecSep-21	
400-264607-3	EB-20241016	Total/NA	Water	PrecSep-21	
400-264607-4	FB-20241016	Total/NA	Water	PrecSep-21	
MB 160-685741/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685741/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-264607-1 DU	MW-U1-20241016	Total/NA	Water	PrecSep-21	

### Prep Batch: 685743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264607-1	MW-U1-20241016	Total/NA	Water	PrecSep_0	
400-264607-2	MW-U2-20241016	Total/NA	Water	PrecSep_0	
400-264607-3	EB-20241016	Total/NA	Water	PrecSep_0	
400-264607-4	FB-20241016	Total/NA	Water	PrecSep_0	
MB 160-685743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-264607-1 DU	MW-U1-20241016	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-685741/1-A**  
**Matrix: Water**  
**Analysis Batch: 689479**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 685741**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.06957	U	0.116	0.116	1.00	0.254	pCi/L	10/29/24 08:31	11/20/24 21:26	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	86.6		30 - 110			10/29/24 08:31	11/20/24 21:26	1		

**Lab Sample ID: LCS 160-685741/2-A**  
**Matrix: Water**  
**Analysis Batch: 689479**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 685741**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.58	9.017		1.06	1.00	0.209	pCi/L	94	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	85.1		30 - 110						

**Lab Sample ID: 400-264607-1 DU**  
**Matrix: Water**  
**Analysis Batch: 689479**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**  
**Prep Batch: 685741**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	-0.0793	U	-0.05808	U	0.0571	1.00	0.169	pCi/L		0.18
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	88.3		30 - 110							

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-685743/1-A**  
**Matrix: Water**  
**Analysis Batch: 689004**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 685743**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2934	U	0.327	0.328	1.00	0.533	pCi/L	10/29/24 08:35	11/18/24 12:16	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	86.6		30 - 110			10/29/24 08:35	11/18/24 12:16	1		
Y Carrier	82.6		30 - 110			10/29/24 08:35	11/18/24 12:16	1		

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-685743/2-A**  
**Matrix: Water**  
**Analysis Batch: 689004**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 685743**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
										Radium-228
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	85.1		30 - 110							
Y Carrier	83.0		30 - 110							

**Lab Sample ID: 400-264607-1 DU**  
**Matrix: Water**  
**Analysis Batch: 689051**

**Client Sample ID: MW-U1-20241016**  
**Prep Type: Total/NA**  
**Prep Batch: 685743**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	88.3		30 - 110							
Y Carrier	79.3		30 - 110							



# Chain of Custody Record

**Euromins Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Phone (850) 478-2671

<b>Client Information</b> Company: Geosyntec Consultants Inc Address: 1255 Roberts Blvd, NW Suite 200 City: Kennesaw State, Zip: GA, 30144 Phone: 770-371-6027 Email: dyifu@geosyntec.com Project Name: CCR App.III/IV GW Monitoring Crisp Co Site: Crisp County Power Commission		Lab PM: Whitmire, Chyenne R E-Mail: Chyenne.Whitmire@et.euromins.com PWSID:		Sampler: Derya Genc & Zain Webb Phone: 515-708-3635		Tracking No(s): 400-264607 COC Page of Origin: GA Page: Page 1 of 1 Job #:		COC No: 400-134357-29334.1 Preservation Codes: D - HNO3 N - None Other:	
Due Date Requested: TAT Requested (days): <b>Standard</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order not required WO #:				Analysis Requested 9315 Ra226, 9320 Ra228, Ra226Ra228 GPPC SM4500 Cl <sub>2</sub> E - Chloride 6020 Sp,As,Ba,Be,Ca,Cd,Cr,Cu,LI,Pb,Tl,Se,Mo 7470A - Mercury 2540C - Total Dissolved Solids 4500 F,C - Fluoride SM4500 SO <sub>4</sub> E - Sulfate Field Sampling - Field pH		Field Filtered Sample (Yes or No)		Special Instructions/Note: pH = 7.95 pH = 7.22	
<b>Sample Identification</b> MW-U1-20241016 MW-U2-20241016 EB-20241016 FB-20241016		Sample Date 10-16-24 10-16-24 10-16-24 10-16-24		Sample Time 1217 1235 1630 1620		Sample Type (C=Comp, G=grab) G G G G		Matrix (Water, Solid, Other) Water Water Water Water	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <b>Zain Webb</b> Date/Time: 10-18-24 0930 Company: Geosyntec Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0.7°C									



# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264607-2

**Login Number: 264607**

**List Source: Eurofins Pensacola**

**List Number: 1**

**Creator: Perez, Trina M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.7°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264607-2

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 11/18/2024 5:41:03 PM Revision 1

## JOB DESCRIPTION

Crisp County Power Commission  
Secondary Ash Areas Wells

## JOB NUMBER

400-264608-3

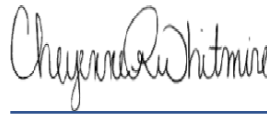
# Eurofins Pensacola

## 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



Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222

Generated  
11/18/2024 5:41:03 PM  
Revision 1



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Method Summary . . . . .	7
Sample Summary . . . . .	8
Client Sample Results . . . . .	9
Definitions . . . . .	16
Chronicle . . . . .	17
QC Association . . . . .	20
QC Sample Results . . . . .	22
Chain of Custody . . . . .	26
Receipt Checklists . . . . .	27
Certification Summary . . . . .	28

# Case Narrative

Client: Geosyntec Consultants Inc  
Project: Crisp County Power Commission

Job ID: 400-264608-3

**Job ID: 400-264608-3**

**Eurofins Pensacola**

## Job Narrative 400-264608-3

### Receipt

The samples were received on 10/19/2024 8:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

### Metals

Method 6020B: The interference check standard solution (ICSA) associated with the following samples showed results for barium at a level greater than the reporting limit (RL). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (MB 680-860946/1-A)

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

### Revision

The report being provided is a revision of the original report sent on 10/25/2024. The report (revision 1) is being revised due to: Client requested Boron, Calcium, TDS, Chloride and Sulfate be added to the report.

### General Chemistry

Method SM 2540C: Total Dissolved Solids (TDS) was requested outside the method holding time for the following samples: MW-D4-20241017 (400-264608-5), MW-D5-20241017 (400-264608-6), MW-D6-20241017 (400-264608-7), MW-D7-20241017 (400-264608-8), MW-D8-20241017 (400-264608-9), MW-D9-20241017 (400-264608-10) and DUP-12-20241017 (400-264608-11).

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

Eurofins Pensacola

# Detection Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Client Sample ID: MW-D4-20241017

## Lab Sample ID: 400-264608-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.021	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0019	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Calcium	53		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	140	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.14		0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Field pH	8.74				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D5-20241017

## Lab Sample ID: 400-264608-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.053	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0039		0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00022	mg/L	1		6020B	Total Recoverable
Lead	0.0011	J	0.0013	0.00021	mg/L	1		6020B	Total Recoverable
Calcium	44		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	130	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	6.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.030	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	5.4		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.85				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D6-20241017

## Lab Sample ID: 400-264608-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0085	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0027		0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Calcium	40		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	120	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.4		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.090	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.2		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.93				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D7-20241017

## Lab Sample ID: 400-264608-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.077	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Cobalt	0.00054	J	0.0025	0.00022	mg/L	1		6020B	Total Recoverable
Calcium	75		0.25	0.14	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Detection Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Client Sample ID: MW-D7-20241017 (Continued)

## Lab Sample ID: 400-264608-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.044	J	0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	210	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.078	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.51				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D8-20241017

## Lab Sample ID: 400-264608-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.061	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Cobalt	0.00022	J	0.0025	0.00022	mg/L	1		6020B	Total Recoverable
Calcium	89		0.25	0.14	mg/L	1		6020B	Total Recoverable
Boron	0.060		0.050	0.022	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	280	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	4.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.059	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	21		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.49				SU	1		Field Sampling	Total/NA

## Client Sample ID: MW-D9-20241017

## Lab Sample ID: 400-264608-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.038	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Calcium	57		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	160	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.084	J	0.10	0.022	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.3	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.59				SU	1		Field Sampling	Total/NA

## Client Sample ID: DUP-12-20241017

## Lab Sample ID: 400-264608-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.020	^6+	0.0025	0.00089	mg/L	1		6020B	Total Recoverable
Chromium	0.0019	J	0.0025	0.0012	mg/L	1		6020B	Total Recoverable
Calcium	51		0.25	0.14	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	140	H	5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.14		0.10	0.022	mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
SDG: Secondary Ash Areas Wells

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PEN
SM 4500 Cl- E	Chloride, Total	SM	EET PEN
SM 4500 F C	Fluoride	SM	EET PEN
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
Field Sampling	Field Sampling	EPA	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

### Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
SDG: Secondary Ash Areas Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264608-5	MW-D4-20241017	Water	10/17/24 09:15	10/19/24 08:03
400-264608-6	MW-D5-20241017	Water	10/17/24 12:48	10/19/24 08:03
400-264608-7	MW-D6-20241017	Water	10/17/24 09:23	10/19/24 08:03
400-264608-8	MW-D7-20241017	Water	10/17/24 11:25	10/19/24 08:03
400-264608-9	MW-D8-20241017	Water	10/17/24 13:10	10/19/24 08:03
400-264608-10	MW-D9-20241017	Water	10/17/24 14:25	10/19/24 08:03
400-264608-11	DUP-12-20241017	Water	10/17/24 00:00	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D4-20241017**

**Lab Sample ID: 400-264608-5**

Date Collected: 10/17/24 09:15

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:39	1
<b>Barium</b>	<b>0.021</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:39	1
<b>Chromium</b>	<b>0.0019</b>	<b>J</b>	0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:39	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:39	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:39	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:39	1
<b>Calcium</b>	<b>53</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:39	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>140</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:08	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.14</b>		0.10	0.022	mg/L			10/21/24 12:18	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/10/24 17:24	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>8.74</b>				SU			10/17/24 08:15	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D5-20241017**

**Lab Sample ID: 400-264608-6**

Date Collected: 10/17/24 12:48

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:33	1
<b>Barium</b>	<b>0.053</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:33	1
<b>Chromium</b>	<b>0.0039</b>		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:33	1
<b>Cobalt</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:33	1
<b>Lead</b>	<b>0.0011</b>	<b>J</b>	0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:33	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:33	1
<b>Calcium</b>	<b>44</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:33	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>130</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>6.0</b>		2.0	1.4	mg/L			11/10/24 16:09	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.030</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 12:21	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>5.4</b>		5.0	1.4	mg/L			11/10/24 17:34	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>6.85</b>				SU			10/17/24 11:48	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D6-20241017**

**Lab Sample ID: 400-264608-7**

Date Collected: 10/17/24 09:23

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:23	1
<b>Barium</b>	<b>0.0085</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:23	1
<b>Chromium</b>	<b>0.0027</b>		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:23	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:23	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:23	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:23	1
<b>Calcium</b>	<b>40</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:23	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>120</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>2.4</b>		2.0	1.4	mg/L			11/10/24 16:10	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.090</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 12:31	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>6.2</b>		5.0	1.4	mg/L			11/10/24 17:35	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>7.93</b>				SU			10/17/24 08:23	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D7-20241017**

**Lab Sample ID: 400-264608-8**

Date Collected: 10/17/24 11:25

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:49	1
<b>Barium</b>	<b>0.077</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:49	1
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:49	1
<b>Cobalt</b>	<b>0.00054</b>	<b>J</b>	0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:49	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:49	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:49	1
<b>Calcium</b>	<b>75</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:49	1
<b>Boron</b>	<b>0.044</b>	<b>J</b>	0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>210</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>2.8</b>		2.0	1.4	mg/L			11/10/24 16:11	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.078</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 12:36	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>4.0</b>	<b>J</b>	5.0	1.4	mg/L			11/10/24 17:36	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>8.51</b>				SU			10/17/24 10:25	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D8-20241017**

**Lab Sample ID: 400-264608-9**

Date Collected: 10/17/24 13:10

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:52	1
<b>Barium</b>	<b>0.061</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:52	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:52	1
<b>Cobalt</b>	<b>0.00022</b>	<b>J</b>	0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:52	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:52	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:52	1
<b>Calcium</b>	<b>89</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:52	1
<b>Boron</b>	<b>0.060</b>		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>280</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>4.9</b>		2.0	1.4	mg/L			11/10/24 16:12	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.059</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 12:39	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>21</b>		5.0	1.4	mg/L			11/10/24 17:36	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>8.49</b>				SU			10/17/24 12:10	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D9-20241017**

**Lab Sample ID: 400-264608-10**

Date Collected: 10/17/24 14:25

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:08	1
<b>Barium</b>	<b>0.038</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:08	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:08	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:08	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:08	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:08	1
<b>Calcium</b>	<b>57</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:08	1
Boron	ND	F1	0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>160</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:12	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.084</b>	<b>J</b>	0.10	0.022	mg/L			10/21/24 12:41	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>4.3</b>	<b>J</b>	5.0	1.4	mg/L			11/10/24 17:36	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Field pH</b>	<b>8.59</b>				SU			10/17/24 13:25	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: DUP-12-20241017**

**Lab Sample ID: 400-264608-11**

Date Collected: 10/17/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:44	1
<b>Barium</b>	<b>0.020</b>	<b>^6+</b>	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:44	1
<b>Chromium</b>	<b>0.0019</b>	<b>J</b>	0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:44	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:44	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:44	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:44	1
<b>Calcium</b>	<b>51</b>		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:44	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>140</b>	<b>H</b>	5.0	5.0	mg/L			11/13/24 07:29	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/10/24 16:13	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.14</b>		0.10	0.022	mg/L			10/21/24 12:44	1
Sulfate (SM 4500 SO4 E)	ND		5.0	1.4	mg/L			11/10/24 17:37	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Qualifiers

### Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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



# Lab Chronicle

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D4-20241017**

**Lab Sample ID: 400-264608-5**

**Date Collected: 10/17/24 09:15**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:39
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:08
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:18
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:24
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/17/24 08:15

**Client Sample ID: MW-D5-20241017**

**Lab Sample ID: 400-264608-6**

**Date Collected: 10/17/24 12:48**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:33
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:09
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:21
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:34
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/17/24 11:48

**Client Sample ID: MW-D6-20241017**

**Lab Sample ID: 400-264608-7**

**Date Collected: 10/17/24 09:23**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:23
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:10
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:31
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:35
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/17/24 08:23

**Client Sample ID: MW-D7-20241017**

**Lab Sample ID: 400-264608-8**

**Date Collected: 10/17/24 11:25**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:49
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:11

# Lab Chronicle

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D7-20241017**

**Lab Sample ID: 400-264608-8**

**Date Collected: 10/17/24 11:25**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:36
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:36
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/17/24 10:25

**Client Sample ID: MW-D8-20241017**

**Lab Sample ID: 400-264608-9**

**Date Collected: 10/17/24 13:10**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:52
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:12
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:39
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:36
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/17/24 12:10

**Client Sample ID: MW-D9-20241017**

**Lab Sample ID: 400-264608-10**

**Date Collected: 10/17/24 14:25**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:08
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:12
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:41
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:36
Total/NA	Analysis	Field Sampling		1	688810	P1P	EET PEN	10/17/24 13:25

**Client Sample ID: DUP-12-20241017**

**Lab Sample ID: 400-264608-11**

**Date Collected: 10/17/24 00:00**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			860946	RR	EET SAV	10/24/24 07:13
Total Recoverable	Analysis	6020B		1	861224	BWR	EET SAV	10/24/24 17:44
Total/NA	Analysis	SM 2540C		1	691026	HG	EET PEN	11/13/24 07:29
Total/NA	Analysis	SM 4500 CI- E		1	690743	CJK	EET PEN	11/10/24 16:13
Total/NA	Analysis	SM 4500 F C		1	688602	JP	EET PEN	10/21/24 12:44
Total/NA	Analysis	SM 4500 SO4 E		1	690748	CJK	EET PEN	11/10/24 17:37

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
SDG: Secondary Ash Areas Wells

**Laboratory References:**

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001  
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Association Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Metals

### Prep Batch: 860946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total Recoverable	Water	3005A	
400-264608-6	MW-D5-20241017	Total Recoverable	Water	3005A	
400-264608-7	MW-D6-20241017	Total Recoverable	Water	3005A	
400-264608-8	MW-D7-20241017	Total Recoverable	Water	3005A	
400-264608-9	MW-D8-20241017	Total Recoverable	Water	3005A	
400-264608-10	MW-D9-20241017	Total Recoverable	Water	3005A	
400-264608-11	DUP-12-20241017	Total Recoverable	Water	3005A	
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-264608-10 MS	MW-D9-20241017	Total Recoverable	Water	3005A	
400-264608-10 MSD	MW-D9-20241017	Total Recoverable	Water	3005A	

### Analysis Batch: 861224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total Recoverable	Water	6020B	860946
400-264608-6	MW-D5-20241017	Total Recoverable	Water	6020B	860946
400-264608-7	MW-D6-20241017	Total Recoverable	Water	6020B	860946
400-264608-8	MW-D7-20241017	Total Recoverable	Water	6020B	860946
400-264608-9	MW-D8-20241017	Total Recoverable	Water	6020B	860946
400-264608-10	MW-D9-20241017	Total Recoverable	Water	6020B	860946
400-264608-11	DUP-12-20241017	Total Recoverable	Water	6020B	860946
MB 680-860946/1-A	Method Blank	Total Recoverable	Water	6020B	860946
LCS 680-860946/2-A	Lab Control Sample	Total Recoverable	Water	6020B	860946
400-264608-10 MS	MW-D9-20241017	Total Recoverable	Water	6020B	860946
400-264608-10 MSD	MW-D9-20241017	Total Recoverable	Water	6020B	860946

## General Chemistry

### Analysis Batch: 688602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	SM 4500 F C	
400-264608-6	MW-D5-20241017	Total/NA	Water	SM 4500 F C	
400-264608-7	MW-D6-20241017	Total/NA	Water	SM 4500 F C	
400-264608-8	MW-D7-20241017	Total/NA	Water	SM 4500 F C	
400-264608-9	MW-D8-20241017	Total/NA	Water	SM 4500 F C	
400-264608-10	MW-D9-20241017	Total/NA	Water	SM 4500 F C	
400-264608-11	DUP-12-20241017	Total/NA	Water	SM 4500 F C	
MB 400-688602/9	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-688602/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-688602/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-264607-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-264607-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-264608-7 DU	MW-D6-20241017	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 690743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	SM 4500 CI- E	
400-264608-6	MW-D5-20241017	Total/NA	Water	SM 4500 CI- E	
400-264608-7	MW-D6-20241017	Total/NA	Water	SM 4500 CI- E	
400-264608-8	MW-D7-20241017	Total/NA	Water	SM 4500 CI- E	
400-264608-9	MW-D8-20241017	Total/NA	Water	SM 4500 CI- E	

Eurofins Pensacola

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
SDG: Secondary Ash Areas Wells

## General Chemistry (Continued)

### Analysis Batch: 690743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-10	MW-D9-20241017	Total/NA	Water	SM 4500 Cl- E	
400-264608-11	DUP-12-20241017	Total/NA	Water	SM 4500 Cl- E	
MB 400-690743/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-690743/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-690743/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-264608-7 MS	MW-D6-20241017	Total/NA	Water	SM 4500 Cl- E	
400-264608-7 MSD	MW-D6-20241017	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 690748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-6	MW-D5-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-7	MW-D6-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-8	MW-D7-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-9	MW-D8-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-10	MW-D9-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-11	DUP-12-20241017	Total/NA	Water	SM 4500 SO4 E	
MB 400-690748/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-690748/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-690748/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-264608-6 MS	MW-D5-20241017	Total/NA	Water	SM 4500 SO4 E	
400-264608-6 MSD	MW-D5-20241017	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 691026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	SM 2540C	
400-264608-6	MW-D5-20241017	Total/NA	Water	SM 2540C	
400-264608-7	MW-D6-20241017	Total/NA	Water	SM 2540C	
400-264608-8	MW-D7-20241017	Total/NA	Water	SM 2540C	
400-264608-9	MW-D8-20241017	Total/NA	Water	SM 2540C	
400-264608-10	MW-D9-20241017	Total/NA	Water	SM 2540C	
400-264608-11	DUP-12-20241017	Total/NA	Water	SM 2540C	
MB 400-691026/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-691026/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-264608-6 DU	MW-D5-20241017	Total/NA	Water	SM 2540C	

## Field Service / Mobile Lab

### Analysis Batch: 688810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	Field Sampling	
400-264608-6	MW-D5-20241017	Total/NA	Water	Field Sampling	
400-264608-7	MW-D6-20241017	Total/NA	Water	Field Sampling	
400-264608-8	MW-D7-20241017	Total/NA	Water	Field Sampling	
400-264608-9	MW-D8-20241017	Total/NA	Water	Field Sampling	
400-264608-10	MW-D9-20241017	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 680-860946/1-A**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.00034	mg/L		10/24/24 07:13	10/24/24 17:03	1
Barium	ND	^6+	0.0025	0.00089	mg/L		10/24/24 07:13	10/24/24 17:03	1
Chromium	ND		0.0025	0.0012	mg/L		10/24/24 07:13	10/24/24 17:03	1
Cobalt	ND		0.0025	0.00022	mg/L		10/24/24 07:13	10/24/24 17:03	1
Lead	ND		0.0013	0.00021	mg/L		10/24/24 07:13	10/24/24 17:03	1
Selenium	ND		0.0013	0.00099	mg/L		10/24/24 07:13	10/24/24 17:03	1
Calcium	ND		0.25	0.14	mg/L		10/24/24 07:13	10/24/24 17:03	1
Boron	ND		0.050	0.022	mg/L		10/24/24 07:13	10/24/24 17:03	1

**Lab Sample ID: LCS 680-860946/2-A**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0501		mg/L		100	80 - 120
Barium	0.100	0.101	^6+	mg/L		101	80 - 120
Chromium	0.100	0.101		mg/L		101	80 - 120
Cobalt	0.0500	0.0536		mg/L		107	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Selenium	0.100	0.0965		mg/L		97	80 - 120
Calcium	5.00	4.95		mg/L		99	80 - 120

**Lab Sample ID: 400-264608-10 MS**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: MW-D9-20241017**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0511		mg/L		102	75 - 125
Barium	0.038	^6+	0.100	0.143	^6+	mg/L		105	75 - 125
Chromium	ND		0.100	0.108		mg/L		108	75 - 125
Cobalt	ND		0.0500	0.0528		mg/L		106	75 - 125
Lead	ND		0.500	0.524		mg/L		105	75 - 125
Selenium	ND		0.100	0.105		mg/L		105	75 - 125
Calcium	57		5.00	58.5	4	mg/L		35	75 - 125
Boron	ND	F1	0.400	0.543	F1	mg/L		136	75 - 125

**Lab Sample ID: 400-264608-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 861224**

**Client Sample ID: MW-D9-20241017**  
**Prep Type: Total Recoverable**  
**Prep Batch: 860946**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0535		mg/L		107	75 - 125	5	20
Barium	0.038	^6+	0.100	0.152	^6+	mg/L		114	75 - 125	6	20
Chromium	ND		0.100	0.112		mg/L		112	75 - 125	3	20
Cobalt	ND		0.0500	0.0549		mg/L		110	75 - 125	4	20
Lead	ND		0.500	0.553		mg/L		111	75 - 125	5	20
Selenium	ND		0.100	0.108		mg/L		108	75 - 125	3	20
Calcium	57		5.00	62.5	4	mg/L		115	75 - 125	7	20
Boron	ND	F1	0.400	0.576	F1	mg/L		144	75 - 125	6	20

Eurofins Pensacola

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 400-691026/1**  
**Matrix: Water**  
**Analysis Batch: 691026**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			11/13/24 07:29	1

**Lab Sample ID: LCS 400-691026/2**  
**Matrix: Water**  
**Analysis Batch: 691026**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	293	282		mg/L		96	78 - 122

**Lab Sample ID: 400-264608-6 DU**  
**Matrix: Water**  
**Analysis Batch: 691026**

**Client Sample ID: MW-D5-20241017**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	130	H	134		mg/L		3	5

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 400-690743/13**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			11/10/24 16:01	1

**Lab Sample ID: LCS 400-690743/14**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	46.2		mg/L		92	90 - 110

**Lab Sample ID: MRL 400-690743/43**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.00	2.05		mg/L		103	50 - 150

**Lab Sample ID: 400-264608-7 MS**  
**Matrix: Water**  
**Analysis Batch: 690743**

**Client Sample ID: MW-D6-20241017**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.4		20.0	21.4		mg/L		95	73 - 120

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-264608-7 MSD  
 Matrix: Water  
 Analysis Batch: 690743

Client Sample ID: MW-D6-20241017  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.4		20.0	20.9		mg/L		92	73 - 120	3	8

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-688602/9  
 Matrix: Water  
 Analysis Batch: 688602

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.022	mg/L			10/21/24 11:43	1

Lab Sample ID: LCS 400-688602/11  
 Matrix: Water  
 Analysis Batch: 688602

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	4.98	4.75		mg/L		95	90 - 110

Lab Sample ID: MRL 400-688602/10  
 Matrix: Water  
 Analysis Batch: 688602

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.102		mg/L		101	50 - 150

Lab Sample ID: 400-264607-B-1 MS  
 Matrix: Water  
 Analysis Batch: 688602

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.064	J	0.100	0.161		mg/L		97	75 - 125

Lab Sample ID: 400-264607-B-1 MSD  
 Matrix: Water  
 Analysis Batch: 688602

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.064	J	0.100	0.167		mg/L		103	75 - 125	4	4

Lab Sample ID: 400-264608-7 DU  
 Matrix: Water  
 Analysis Batch: 688602

Client Sample ID: MW-D6-20241017  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.090	J	0.0940	J	mg/L		4	4



# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 400-690748/12**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			11/10/24 17:18	1

**Lab Sample ID: LCS 400-690748/13**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	16.2		mg/L		108	90 - 110

**Lab Sample ID: MRL 400-690748/14**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.87	J	mg/L		97	50 - 150

**Lab Sample ID: 400-264608-6 MS**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: MW-D5-20241017**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.4		10.0	15.9		mg/L		105	77 - 128

**Lab Sample ID: 400-264608-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 690748**

**Client Sample ID: MW-D5-20241017**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	5.4		10.0	16.0		mg/L		106	77 - 128	1	5

**Eurofins Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Phone (850) 478-2671

# Chain of Custody Record

**eurofins** | Environment Testing

<b>Client Information</b>		Sampler: Derya Genc & Zain Webb		Lab PW: Whitmire, Cheyenne R		Carrier Tracking No(s): 400-134357-29334.1	
Client Contact: Dawit Yifru		Phone: 515-708-3635		E-Mail: Cheyenne.Whitmire@et.eurofins.com		Page: 1 of 1	
Company: Geosyntec Consultants Inc		Address: 1255 Roberts Blvd, NW Suite 200		City: Kennesaw		State of Origin: GA	
Address: 1255 Roberts Blvd, NW Suite 200		City: Kennesaw		State: GA		Job #:	
City: Kennesaw		State: GA		State of Origin: GA		Job #:	
Phone: 770-371-6027		Purchase Order not required		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		TAT Requested (days): <b>Standard</b>	
Email: dyifru@geosyntec.com		Project #: 40007960		SSOW#:		Due Date Requested:	
Project Name: CCR App.III/IV GW Monitoring Crisp Co		Site: Crisp County Power Commission		Matrix (W=water, S=solid, O=water/oi, BT=Tissue, A=Air)		Sample Type (C=comp, G=grab)	
Sample Identification		Sample Date		Sample Time		Preservation Code	
MW-D4 - 20241017	10-17-24	0915	G	Water	N	N	X
MW-D5 - 20241017	10-17-24	1248	G	Water	N	N	X
MW-D6 - 20241017	10-17-24	0923	G	Water	N	N	X
MW-D7 - 20241017	10-17-24	1125	G	Water	N	N	X
MW-D8 - 20241017	10-17-24	1310	G	Water	N	N	X
MW-D9 - 20241017	10-17-24	1425	G	Water	N	N	X
DUP-12 - 20241017	10-17-24	0000	G	Water	N	N	X
<b>Analysis Requested</b>							
9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc		SM4500_ClE - Chloride		6020 - Sb,As,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo		7470A - Mercury	
2540C - Total Dissolved Solids		4500_F_C - Fluoride		SM4500_SO4_E - Sulfate		Field Sampling - Field pH	
Special Instructions/Note: PH = 8.74 PH = 6.85 PH = 7.93 PH = 8.51 PH = 8.49 PH = 8.59 20							
<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Zain Webb</i>		Date/Time: 10-18-24 0730		Company: Geosyntec		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by: <i>BP</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.1°C 0.1°C 5.8°C		Date: 10/19/24 803	



# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264608-3  
SDG Number: Secondary Ash Areas Wells

**Login Number: 264608**

**List Number: 1**

**Creator: Perez, Trina M**

**List Source: Eurofins Pensacola**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.6°C, 1.1°C, 0.9°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
 SDG: Secondary Ash Areas Wells

## Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

## Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-25
ANAB	Dept. of Defense ELAP	L2463	09-22-26
Arkansas (DW)	State	GA00006	06-30-25
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25
Georgia (DW)	State	803	06-30-25
Guam	State	24-05R	04-17-25
Hawaii	State	<cert No.>	06-30-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	108138	06-30-24 *
Louisiana (All)	NELAP	30690	06-30-25
Louisiana (DW)	State	LA009	12-31-24
Maryland	State	250	12-31-24
Michigan	State	9925	03-05-25
Mississippi	State	<cert No.>	06-30-25
Nebraska	State	NE-OS-7-04	06-30-25
New Mexico	State	GA00006	06-30-25
North Carolina (DW)	State	13701	07-31-25
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-3  
SDG: Secondary Ash Areas Wells

## Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24 *
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25
Wyoming	State	8TMS-L	06-30-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dawit Yifru  
Geosyntec Consultants Inc  
1255 Roberts Blvd, NW  
Suite 200  
Kennesaw, Georgia 30144

Generated 11/22/2024 5:04:07 PM

## JOB DESCRIPTION

Crisp County Power Commission  
Secondary Ash Areas Wells

## JOB NUMBER

400-264608-4

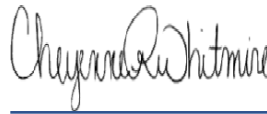
# Eurofins Pensacola

## 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  
11/22/2024 5:04:07 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	14
Chronicle . . . . .	15
QC Association . . . . .	17
QC Sample Results . . . . .	18
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	21
Certification Summary . . . . .	22



# Case Narrative

Client: Geosyntec Consultants Inc  
Project: Crisp County Power Commission

Job ID: 400-264608-4

**Job ID: 400-264608-4**

**Eurofins Pensacola**

## Job Narrative 400-264608-4

### Receipt

The samples were received on 10/19/2024 8:03 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

### RAD

Method 9320: Radium 228 Batch 685743. The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. MW-D5-20241017 (400-264608-6)

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



# Method Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
SDG: Secondary Ash Areas Wells

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

#### Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Sample Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
SDG: Secondary Ash Areas Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-264608-5	MW-D4-20241017	Water	10/17/24 09:15	10/19/24 08:03
400-264608-6	MW-D5-20241017	Water	10/17/24 12:48	10/19/24 08:03
400-264608-7	MW-D6-20241017	Water	10/17/24 09:23	10/19/24 08:03
400-264608-8	MW-D7-20241017	Water	10/17/24 11:25	10/19/24 08:03
400-264608-9	MW-D8-20241017	Water	10/17/24 13:10	10/19/24 08:03
400-264608-10	MW-D9-20241017	Water	10/17/24 14:25	10/19/24 08:03
400-264608-11	DUP-12-20241017	Water	10/17/24 00:00	10/19/24 08:03

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D4-20241017**

**Lab Sample ID: 400-264608-5**

Date Collected: 10/17/24 09:15

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0914	U	0.116	0.116	1.00	0.192	pCi/L	10/29/24 08:31	11/20/24 21:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0409	U	0.447	0.447	1.00	0.847	pCi/L	10/29/24 08:35	11/18/24 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	70.3		30 - 110					10/29/24 08:35	11/18/24 14:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0505	U	0.462	0.462	5.00	0.847	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D5-20241017**

**Lab Sample ID: 400-264608-6**

Date Collected: 10/17/24 12:48

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.147	U	0.294	0.294	1.00	0.520	pCi/L	10/29/24 08:31	11/20/24 21:35	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	78.5		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.388	U G	1.02	1.02	1.00	1.80	pCi/L	10/29/24 08:35	11/18/24 14:05	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	78.5		30 - 110					10/29/24 08:35	11/18/24 14:05	1
Y Carrier	75.9		30 - 110					10/29/24 08:35	11/18/24 14:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.535	U	1.06	1.06	5.00	1.80	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D6-20241017**

**Lab Sample ID: 400-264608-7**

Date Collected: 10/17/24 09:23

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0199	U	0.107	0.107	1.00	0.206	pCi/L	10/29/24 08:31	11/20/24 21:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.139	U	0.327	0.327	1.00	0.672	pCi/L	10/29/24 08:35	11/18/24 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					10/29/24 08:35	11/18/24 14:06	1
Y Carrier	72.5		30 - 110					10/29/24 08:35	11/18/24 14:06	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.119	U	0.344	0.344	5.00	0.672	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D7-20241017**

**Lab Sample ID: 400-264608-8**

Date Collected: 10/17/24 11:25

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0497	U	0.100	0.100	1.00	0.182	pCi/L	10/29/24 08:31	11/20/24 21:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.254	U	0.339	0.339	1.00	0.737	pCi/L	10/29/24 08:35	11/18/24 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110					10/29/24 08:35	11/18/24 14:06	1
Y Carrier	75.9		30 - 110					10/29/24 08:35	11/18/24 14:06	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.204	U	0.353	0.353	5.00	0.737	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D8-20241017**

**Lab Sample ID: 400-264608-9**

Date Collected: 10/17/24 13:10

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0183	U	0.0783	0.0783	1.00	0.178	pCi/L	10/29/24 08:31	11/20/24 21:35	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	87.8		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.245	U	0.421	0.422	1.00	0.851	pCi/L	10/29/24 08:35	11/18/24 14:06	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	87.8		30 - 110					10/29/24 08:35	11/18/24 14:06	1
Y Carrier	72.5		30 - 110					10/29/24 08:35	11/18/24 14:06	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.264	U	0.428	0.429	5.00	0.851	pCi/L		11/22/24 15:43	1



# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D9-20241017**

**Lab Sample ID: 400-264608-10**

Date Collected: 10/17/24 14:25

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0656	U	0.103	0.103	1.00	0.178	pCi/L	10/29/24 08:31	11/20/24 21:35	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	86.1		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.448	0.449	1.00	0.765	pCi/L	10/29/24 08:35	11/18/24 14:06	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	86.1		30 - 110					10/29/24 08:35	11/18/24 14:06	1
Y Carrier	73.6		30 - 110					10/29/24 08:35	11/18/24 14:06	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.345	U	0.460	0.461	5.00	0.765	pCi/L		11/22/24 15:43	1

# Client Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: DUP-12-20241017**

**Lab Sample ID: 400-264608-11**

Date Collected: 10/17/24 00:00

Matrix: Water

Date Received: 10/19/24 08:03

**Method: SW846 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0735	U	0.106	0.107	1.00	0.182	pCi/L	10/29/24 08:31	11/20/24 21:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					10/29/24 08:31	11/20/24 21:35	1

**Method: SW846 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.910</b>		0.562	0.569	1.00	0.839	pCi/L	10/29/24 08:35	11/18/24 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					10/29/24 08:35	11/18/24 14:06	1
Y Carrier	81.1		30 - 110					10/29/24 08:35	11/18/24 14:06	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.984</b>		0.572	0.579	5.00	0.839	pCi/L		11/22/24 15:43	1

# Definitions/Glossary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
SDG: Secondary Ash Areas Wells

## Qualifiers

### Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

## Glossary

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

# Lab Chronicle

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D4-20241017**

**Lab Sample ID: 400-264608-5**

**Date Collected: 10/17/24 09:15**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: MW-D5-20241017**

**Lab Sample ID: 400-264608-6**

**Date Collected: 10/17/24 12:48**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:05
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: MW-D6-20241017**

**Lab Sample ID: 400-264608-7**

**Date Collected: 10/17/24 09:23**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:06
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: MW-D7-20241017**

**Lab Sample ID: 400-264608-8**

**Date Collected: 10/17/24 11:25**

**Matrix: Water**

**Date Received: 10/19/24 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:06
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

# Lab Chronicle

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

**Client Sample ID: MW-D8-20241017**  
**Date Collected: 10/17/24 13:10**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264608-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:06
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: MW-D9-20241017**  
**Date Collected: 10/17/24 14:25**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264608-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:06
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Client Sample ID: DUP-12-20241017**  
**Date Collected: 10/17/24 00:00**  
**Date Received: 10/19/24 08:03**

**Lab Sample ID: 400-264608-11**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	9315		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	9320		1	689051	SWS	EET SL	11/18/24 14:06
Total/NA	Analysis	Ra226_Ra228		1	690028	SCB	EET SL	11/22/24 15:43

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# QC Association Summary

Client: Geosyntec Consultants Inc  
Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
SDG: Secondary Ash Areas Wells

## Rad

### Prep Batch: 685741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	PrecSep-21	
400-264608-6	MW-D5-20241017	Total/NA	Water	PrecSep-21	
400-264608-7	MW-D6-20241017	Total/NA	Water	PrecSep-21	
400-264608-8	MW-D7-20241017	Total/NA	Water	PrecSep-21	
400-264608-9	MW-D8-20241017	Total/NA	Water	PrecSep-21	
400-264608-10	MW-D9-20241017	Total/NA	Water	PrecSep-21	
400-264608-11	DUP-12-20241017	Total/NA	Water	PrecSep-21	
MB 160-685741/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685741/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-264607-A-1-B DU	Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 685743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-264608-5	MW-D4-20241017	Total/NA	Water	PrecSep_0	
400-264608-6	MW-D5-20241017	Total/NA	Water	PrecSep_0	
400-264608-7	MW-D6-20241017	Total/NA	Water	PrecSep_0	
400-264608-8	MW-D7-20241017	Total/NA	Water	PrecSep_0	
400-264608-9	MW-D8-20241017	Total/NA	Water	PrecSep_0	
400-264608-10	MW-D9-20241017	Total/NA	Water	PrecSep_0	
400-264608-11	DUP-12-20241017	Total/NA	Water	PrecSep_0	
MB 160-685743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-264607-A-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-685741/1-A**  
**Matrix: Water**  
**Analysis Batch: 689479**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 685741**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.06957	U	0.116	0.116	1.00	0.254	pCi/L	10/29/24 08:31	11/20/24 21:26	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	86.6		30 - 110			10/29/24 08:31	11/20/24 21:26	1		

**Lab Sample ID: LCS 160-685741/2-A**  
**Matrix: Water**  
**Analysis Batch: 689479**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 685741**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.58	9.017		1.06	1.00	0.209	pCi/L	94	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	85.1		30 - 110						

**Lab Sample ID: 400-264607-A-1-B DU**  
**Matrix: Water**  
**Analysis Batch: 689479**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 685741**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	-0.0793	U	-0.05808	U	0.0571	1.00	0.169	pCi/L	0.18	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	88.3		30 - 110							

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-685743/1-A**  
**Matrix: Water**  
**Analysis Batch: 689004**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 685743**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2934	U	0.327	0.328	1.00	0.533	pCi/L	10/29/24 08:35	11/18/24 12:16	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	86.6		30 - 110			10/29/24 08:35	11/18/24 12:16	1		
Y Carrier	82.6		30 - 110			10/29/24 08:35	11/18/24 12:16	1		

# QC Sample Results

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-685743/2-A**  
**Matrix: Water**  
**Analysis Batch: 689004**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 685743**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.33	8.318		1.22	1.00	0.584	pCi/L	100	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	85.1		30 - 110							
Y Carrier	83.0		30 - 110							

**Lab Sample ID: 400-264607-A-1-D DU**  
**Matrix: Water**  
**Analysis Batch: 689051**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 685743**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.0824	U	0.06549	U	0.404	1.00	0.737	pCi/L	0.20	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	88.3		30 - 110							
Y Carrier	79.3		30 - 110							



**Eurofins Pensacola**  
 3355 McLemore Drive  
 Pensacola, FL 32514  
 Phone (850) 474-1001 Phone (850) 478-2671

# Chain of Custody Record

**eurofins** Environment Testing

<b>Client Information</b> Sampler: Derya Genc & Zain Webb Phone: 515-708-3635 Company: Geosyntec Consultants Inc Address: 1255 Roberts Blvd, NW Suite 200 City: Kennesaw State, Zip: GA, 30144 Phone: 770-371-6027 Email: dyfrfu@geosyntec.com Project Name: CCR App.III/IV GW Monitoring Crisp Co Site: Crisp County Power Commission		Lab Fw: Whitmire, Cheyenne R E-Mail: Cheyenne.Whitmire@et.eurofins.com Camer Tracking No(s): 400-134357-29334.1 State of Origin: GA Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): <b>Standard</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order not required WO #:		<b>Analysis Requested</b> 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc SM4500_Cl_E - Chloride 6020 - Sb,As,Ba,Be,Ca,Cd,Cr,Co,Li,Pb,Tl,Se,Mo 7470A - Mercury 2540C - Total Dissolved Solids 4500_F_C - Fluoride SM4500_SO4_E - Sulfate Field Sampling - Field pH	
<b>Sample Identification</b> MW-D4 - 20241017 MW-D5 - 20241017 MW-D6 - 20241017 MW-D7 - 20241017 MW-D8 - 20241017 MW-D9 - 20241017 DUP-12 - 20241017		Field Number (Number of No.) Preservation Code Matrix (W=water, S=solid, O=water/Oil, BT=Tissue, A=Air) Sample Type (C=comp, G=grab) Sample Time Sample Date Sample Time Matrix	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note: PH = 8.74 PH = 6.85 PH = 7.93 PH = 8.51 PH = 8.49 PH = 8.59	
Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)			
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Relinquished by: Zain Webb Date/Time: 10-18-24 0730 Company: Geosyntec		Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by:		Method of Shipment:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time: 10/19/24 0803 Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler: Temperature(s) °C and Other Remarks: 1.1°C 0.1°C 5.0°C	



## Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-264608-4  
SDG Number: Secondary Ash Areas Wells

**Login Number: 264608**

**List Number: 1**

**Creator: Perez, Trina M**

**List Source: Eurofins Pensacola**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.6°C, 1.1°C, 0.9°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Accreditation/Certification Summary

Client: Geosyntec Consultants Inc  
 Project/Site: Crisp County Power Commission

Job ID: 400-264608-4  
 SDG: Secondary Ash Areas Wells

## Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# APPENDIX C

## Statistical Analysis Reports

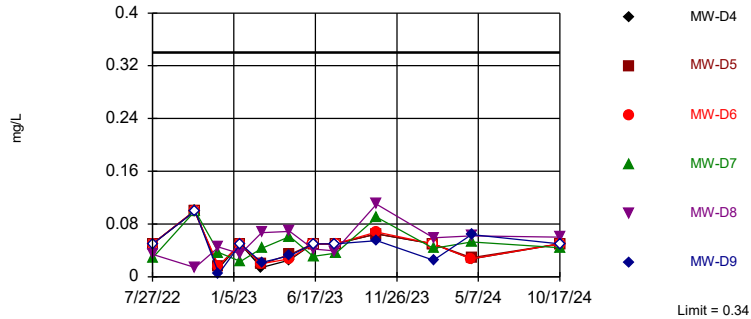
# Prediction Limit

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/31/2024, 10:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MW-D4	0.34	n/a	10/17/2024	0.05ND	No	37	n/a	n/a	64.86	n/a	n/a	0.001343	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D5	0.34	n/a	10/17/2024	0.05ND	No	37	n/a	n/a	64.86	n/a	n/a	0.001343	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D6	0.34	n/a	10/17/2024	0.05ND	No	37	n/a	n/a	64.86	n/a	n/a	0.001343	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D7	0.34	n/a	10/17/2024	0.044J	No	37	n/a	n/a	64.86	n/a	n/a	0.001343	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D8	0.34	n/a	10/17/2024	0.06	No	37	n/a	n/a	64.86	n/a	n/a	0.001343	NP Inter (NDs) 1 of 2
Boron (mg/L)	MW-D9	0.34	n/a	10/17/2024	0.05ND	No	37	n/a	n/a	64.86	n/a	n/a	0.001343	NP Inter (NDs) 1 of 2
<b>Calcium (mg/L)</b>	<b>MW-D4</b>	<b>42.74</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>453</b>	<b>Yes</b>	<b>36</b>	<b>1053</b>	<b>438.3</b>	<b>0</b>	<b>None</b>	<b>x^2</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>MW-D5</b>	<b>42.74</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>444</b>	<b>Yes</b>	<b>36</b>	<b>1053</b>	<b>438.3</b>	<b>0</b>	<b>None</b>	<b>x^2</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
Calcium (mg/L)	MW-D6	42.74	n/a	10/17/2024	40	No	36	1053	438.3	0	None	x^2	0.002505	Param Inter 1 of 2
<b>Calcium (mg/L)</b>	<b>MW-D7</b>	<b>42.74</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>475</b>	<b>Yes</b>	<b>36</b>	<b>1053</b>	<b>438.3</b>	<b>0</b>	<b>None</b>	<b>x^2</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>MW-D8</b>	<b>42.74</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>489</b>	<b>Yes</b>	<b>36</b>	<b>1053</b>	<b>438.3</b>	<b>0</b>	<b>None</b>	<b>x^2</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
<b>Calcium (mg/L)</b>	<b>MW-D9</b>	<b>42.74</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>457</b>	<b>Yes</b>	<b>36</b>	<b>1053</b>	<b>438.3</b>	<b>0</b>	<b>None</b>	<b>x^2</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
Chloride (mg/L)	MW-D4	9.833	n/a	10/17/2024	2ND	No	36	n/a	n/a	13.89	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D5	9.833	n/a	10/17/2024	6	No	36	n/a	n/a	13.89	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D6	9.833	n/a	10/17/2024	2.4	No	36	n/a	n/a	13.89	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D7	9.833	n/a	10/17/2024	2.8	No	36	n/a	n/a	13.89	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D8	9.833	n/a	10/17/2024	4.9	No	36	n/a	n/a	13.89	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Chloride (mg/L)	MW-D9	9.833	n/a	10/17/2024	2ND	No	36	n/a	n/a	13.89	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D4	9.43	5.07	10/17/2024	8.74	No	37	n/a	n/a	0	n/a	n/a	0.002687	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D5	9.43	5.07	10/17/2024	6.85	No	37	n/a	n/a	0	n/a	n/a	0.002687	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D6	9.43	5.07	10/17/2024	7.93	No	37	n/a	n/a	0	n/a	n/a	0.002687	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D7	9.43	5.07	10/17/2024	8.51	No	37	n/a	n/a	0	n/a	n/a	0.002687	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D8	9.43	5.07	10/17/2024	8.49	No	37	n/a	n/a	0	n/a	n/a	0.002687	NP Inter (normality) 1 of 2
Field pH (SU)	MW-D9	9.43	5.07	10/17/2024	8.59	No	37	n/a	n/a	0	n/a	n/a	0.002687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D4	0.45	n/a	10/17/2024	0.14	No	37	n/a	n/a	8.108	n/a	n/a	0.001343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D5	0.45	n/a	10/17/2024	0.03J	No	37	n/a	n/a	8.108	n/a	n/a	0.001343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D6	0.45	n/a	10/17/2024	0.09J	No	37	n/a	n/a	8.108	n/a	n/a	0.001343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D7	0.45	n/a	10/17/2024	0.078J	No	37	n/a	n/a	8.108	n/a	n/a	0.001343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D8	0.45	n/a	10/17/2024	0.059J	No	37	n/a	n/a	8.108	n/a	n/a	0.001343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MW-D9	0.45	n/a	10/17/2024	0.084J	No	37	n/a	n/a	8.108	n/a	n/a	0.001343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D4	120	n/a	10/17/2024	5ND	No	36	n/a	n/a	5.556	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D5	120	n/a	10/17/2024	5.4	No	36	n/a	n/a	5.556	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D6	120	n/a	10/17/2024	6.2	No	36	n/a	n/a	5.556	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D7	120	n/a	10/17/2024	4J	No	36	n/a	n/a	5.556	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D8	120	n/a	10/17/2024	21	No	36	n/a	n/a	5.556	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MW-D9	120	n/a	10/17/2024	4.3J	No	36	n/a	n/a	5.556	n/a	n/a	0.001409	NP Inter (normality) 1 of 2
Total Dissolved Solids...	MW-D4	180.8	n/a	10/17/2024	140	No	36	10.39	1.731	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Total Dissolved Solids...	MW-D5	180.8	n/a	10/17/2024	130	No	36	10.39	1.731	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Total Dissolved Solids...	MW-D6	180.8	n/a	10/17/2024	120	No	36	10.39	1.731	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
<b>Total Dissolved Solids...</b>	<b>MW-D7</b>	<b>180.8</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>210</b>	<b>Yes</b>	<b>36</b>	<b>10.39</b>	<b>1.731</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids...</b>	<b>MW-D8</b>	<b>180.8</b>	<b>n/a</b>	<b>10/17/2024</b>	<b>280</b>	<b>Yes</b>	<b>36</b>	<b>10.39</b>	<b>1.731</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.002505</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids...	MW-D9	180.8	n/a	10/17/2024	160	No	36	10.39	1.731	0	None	sqrt(x)	0.002505	Param Inter 1 of 2

Within Limit

Prediction Limit  
Interwell Non-parametric

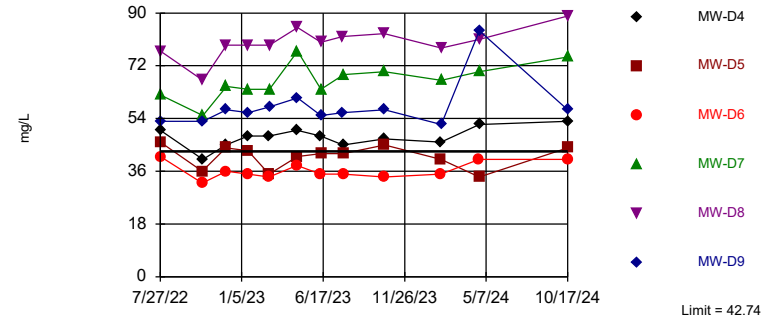


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 64.86% NDs. Annual per-constituent alpha = 0.008033. Individual comparison alpha = 0.001343 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Exceeds Limit: MW-D4, MW-D5, MW-D7,  
MW-D8, MW-D9

Prediction Limit  
Interwell Parametric

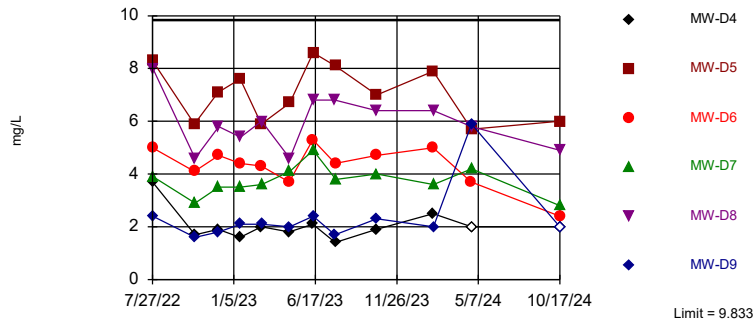


Background Data Summary (based on square transformation): Mean=1053, Std. Dev.=438.3, n=36. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.912. Kappa = 1.766 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 6 points to limit.

Constituent: Calcium Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Prediction Limit  
Interwell Non-parametric

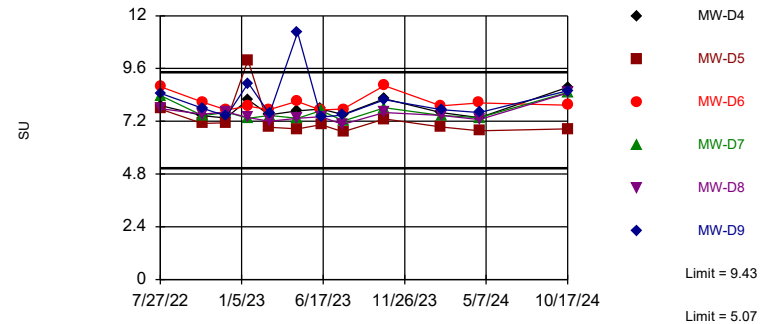


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 13.89% NDs. Annual per-constituent alpha = 0.008426. Individual comparison alpha = 0.001409 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Chloride Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limits

Prediction Limit  
Interwell Non-parametric

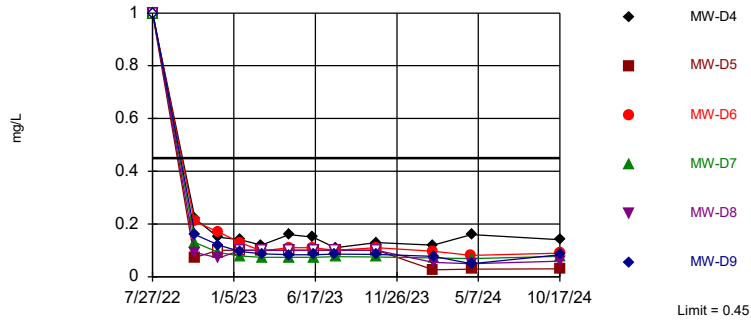


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 37 background values. Annual per-constituent alpha = 0.01607. Individual comparison alpha = 0.002687 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Field pH Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Prediction Limit  
Interwell Non-parametric

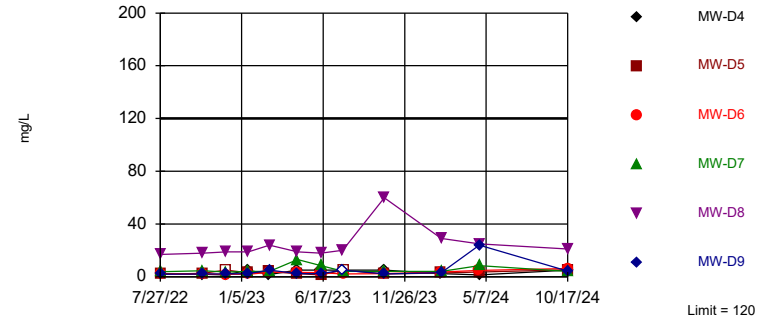


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. 8.108% NDs. Annual per-constituent alpha = 0.008033. Individual comparison alpha = 0.001343 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Fluoride Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Prediction Limit  
Interwell Non-parametric

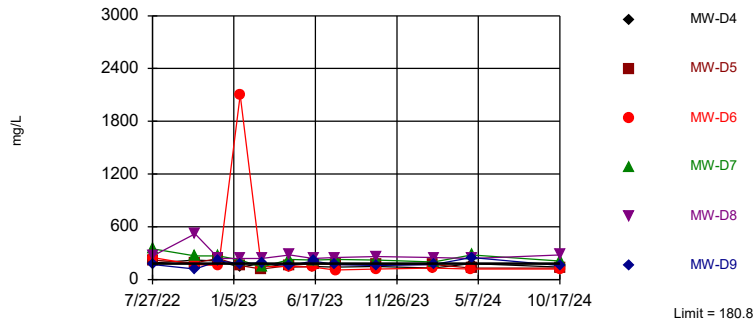


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 5.556% NDs. Annual per-constituent alpha = 0.008426. Individual comparison alpha = 0.001409 (1 of 2). Comparing 6 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Exceeds Limit: MW-D7, MW-D8

Prediction Limit  
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.39, Std. Dev.=1.731, n=36. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9133, critical = 0.912. Kappa = 1.766 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 6 points to limit.

Constituent: Total Dissolved Solids Analysis Run 12/31/2024 10:25 AM View: Sanitas\_through\_October20  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D6	MW-U2 (bg)	MW-D4	MW-D5	MW-D8	MW-D9	MW-D7
2/28/2017	<0.05							
3/27/2017	<0.05							
4/24/2017	<0.05							
5/22/2017	<0.05							
6/19/2017	<0.05							
7/17/2017	<0.05							
8/14/2017	<0.05							
9/13/2017	<0.05							
3/22/2018	0.0077							
6/5/2018	<0.05							
11/29/2018	<0.05							
4/29/2019	<0.05							
10/23/2019	0.0051 (J)							
4/27/2020	0.0042 (J)							
11/19/2020	<0.05							
4/26/2021	<0.05 (^)							
10/26/2021	0.007 (J)							
4/26/2022	0.0067 (J)							
7/27/2022		<0.05	<0.05	<0.05	<0.05			
7/28/2022						0.034 (J)	<0.05	0.029 (J)
10/19/2022	<0.1	<0.1			<0.1			
10/20/2022			<0.1	<0.1		0.014 (J)	<0.1	<0.1
12/5/2022				0.012 (JB)	0.016 (JB)			
12/6/2022		0.016 (JB)	0.0085 (JB)			0.045 (JB)	0.0046 (JB)	0.037 (JB)
1/18/2023	<0.05 (^)	<0.05	<0.05	<0.05	<0.05			
1/19/2023						0.035 (J)	<0.05	0.023 (J)
3/1/2023		0.02 (J)	0.015 (J)	0.014 (J)	0.019 (JB)			
3/2/2023						0.067 (B)	0.022 (J)	0.043 (J)
4/26/2023	0.02 (JB)	0.027 (JB)	0.027 (JB)	0.025 (JB)				
4/27/2023					0.034 (JB)	0.069 (B)	0.032 (JB)	0.061 (B)
6/12/2023		<0.05	<0.05	<0.05				
6/13/2023					<0.05	0.042 (J)	<0.05	0.031 (J)
7/26/2023						0.039 (J)	<0.05	
7/27/2023		<0.05	<0.05	<0.05	<0.05			
7/28/2023								0.036 (J)
10/17/2023	0.34	0.068	0.038 (J)	0.065		0.11		
10/18/2023					0.065		0.055	0.09
2/7/2024	<0.05	<0.05	0.029 (JB)	<0.05	<0.05			
2/8/2024						0.059	0.025 (JB)	0.043 (J)
4/23/2024	<0.05	0.027 (J)	<0.05					
4/24/2024				0.027 (J)	0.029 (J)	0.062	0.064	0.053
10/16/2024	<0.05		0.023 (J)					
10/17/2024		<0.05		<0.05	<0.05	0.06	<0.05 (F1)	0.044 (J)



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8	MW-D9	MW-U2 (bg)	MW-U1 (bg)
2/28/2017								34
3/27/2017								32
4/24/2017								40
5/22/2017								36
6/19/2017								38
7/17/2017								37 (B)
8/14/2017								33
9/13/2017								35
6/5/2018								33
11/29/2018								32
4/29/2019								34
10/23/2019								38
4/27/2020								31
11/19/2020								36
4/26/2021								33
10/26/2021								36
4/26/2022								34 (B)
7/27/2022	50	46	41				39	
7/28/2022				62	77	53		
10/19/2022		36	32					31
10/20/2022	40			55	67	53	26	
12/5/2022	45	44						
12/6/2022			36	65	79	57	38	
1/18/2023	48 (B)	43 (B)	35 (B)				44 (B)	36 (B)
1/19/2023				64	79	56		
3/1/2023	48	35	34				20	
3/2/2023				64	79	58		
4/26/2023	50		38				20	37
4/27/2023		41		77	85	61		
6/12/2023	48		35				19	
6/13/2023		42		64	80	55		
7/26/2023					82	56		
7/27/2023	45	42	35				18	
7/28/2023				69				
10/17/2023	47		34		83		25	36
10/18/2023		45		70		57		
2/7/2024	46	40	35				20	36
2/8/2024				67	78	52		
4/23/2024			40				12	33
4/24/2024	52	34		70	81	84		
10/16/2024							14	38
10/17/2024	53	44	40	75	89	57		

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D6	MW-U2 (bg)	MW-D5	MW-D4	MW-D7	MW-D8	MW-D9
2/28/2017	2.2							
3/27/2017	2.1							
4/24/2017	1.8 (J)							
5/22/2017	2.6							
6/19/2017	1.9 (J)							
7/17/2017	2.2							
8/14/2017	2							
9/13/2017	2.2							
6/5/2018	1.8 (J)							
11/29/2018	1.7 (J)							
4/29/2019	1.4 (J)							
10/23/2019	9.8 (D)							
4/27/2020	2.4							
11/19/2020	2.4							
4/26/2021	9.833 (F1D)							
10/26/2021	1.7 (J)							
4/26/2022	1.9 (J)							
7/27/2022		5	2.4	8.3	3.7			
7/28/2022						3.9	8	2.4
10/19/2022	<2	4.1		5.9				
10/20/2022			2.5		1.7 (J)	2.9	4.6	1.6 (J)
12/5/2022				7.1	1.9 (J)			
12/6/2022		4.7	3.3			3.5	5.8	1.8 (J)
1/18/2023	2.2	4.4	4.3	7.6	1.6 (J)			
1/19/2023						3.5	5.4	2.1
3/1/2023		4.3	2.2	5.9	2			
3/2/2023						3.6	6	2.1
4/26/2023	1.7 (J)	3.7	3.4		1.8 (J)			
4/27/2023				6.7		4.1	4.6	2
6/12/2023		5.3	2.3		2.1			
6/13/2023				8.6		4.9	6.8	2.4
7/26/2023							6.8	1.7 (J)
7/27/2023		4.4	<2	8.1	1.4 (J)			
7/28/2023						3.8		
10/17/2023	1.9 (J)	4.7	2		1.9 (J)		6.4	
10/18/2023				7		4		2.3
2/7/2024	2.5	5	2.2	7.9	2.5			
2/8/2024						3.6	6.4	2
4/23/2024	1.5 (J)	3.7	<2					
4/24/2024				5.7	<2	4.2	5.8	5.9
10/16/2024	<2		<2					
10/17/2024		2.4		6	<2	2.8	4.9	<2

# Prediction Limit

Constituent: Field pH (SU) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D6	MW-U2 (bg)	MW-D4	MW-D5	MW-D8	MW-D9	MW-D7
2/28/2017	7.74							
3/27/2017	7.78							
4/24/2017	7.45							
5/22/2017	7.77							
6/19/2017	5.07							
7/17/2017	6.37							
8/14/2017	7.45							
9/13/2017	7.63							
3/22/2018	7.87							
6/5/2018	6.74							
11/29/2018	7.72							
4/29/2019	7.84							
10/23/2019	7.54							
4/27/2020	6.05							
11/19/2020	7.47							
4/26/2021	7.91							
10/26/2021	9.28							
4/26/2022	8.1							
7/27/2022		8.78	8.55	7.92	7.76			
7/28/2022						7.77	8.47	8.37
10/19/2022	7.98	8.08			7.1			
10/20/2022			7.77	7.45		7.53	7.78	7.45
12/5/2022				7.35	7.13			
12/6/2022		7.71	7.64			7.62	7.44	7.61
1/18/2023	9.43	7.89	7.64	8.18	9.98			
1/19/2023						7.37	8.93	7.33
3/1/2023		7.73	6.58	7.49	6.93			
3/2/2023						7.21	7.54	7.47
4/26/2023	7.82	8.11	7.57	7.67				
4/27/2023					6.86	7.33	11.24	7.33
6/12/2023		7.72	7.79	7.76				
6/13/2023					7.05	7.41	7.39	7.68
7/26/2023						7.06	7.48	
7/27/2023		7.75	7.5	7.51	6.72			
7/28/2023								7.22
10/17/2023	8.1	8.82	8.56	8.23		7.6		
10/18/2023					7.31		8.18	7.81
2/7/2024	7.82	7.91	7.67	7.6	6.94			
2/8/2024						7.47	7.73	7.46
4/23/2024	7.92	8.04	7.37					
4/24/2024				7.36	6.76	7.27	7.6	7.36
10/16/2024	7.95		7.22					
10/17/2024		7.93		8.74	6.85	8.49	8.59	8.51

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D6	MW-U2 (bg)	MW-D4	MW-D5	MW-D8	MW-D9	MW-D7
2/28/2017	0.06 (J)							
3/27/2017	0.04 (J)							
4/24/2017	0.06 (J)							
5/22/2017	0.06 (J)							
6/19/2017	0.06 (J)							
7/17/2017	0.06 (J)							
8/14/2017	0.05 (J)							
9/13/2017	0.058 (J)							
3/22/2018	0.07 (J)							
6/5/2018	0.06 (J)							
11/29/2018	0.04 (J)							
4/29/2019	<0.1							
10/23/2019	0.05 (JB)							
4/27/2020	0.05 (J)							
11/19/2020	0.07 (J)							
4/26/2021	0.1 (B)							
10/26/2021	<0.1							
4/26/2022	0.07 (J)							
7/27/2022		<1 (H)	0.45 (J)	<1 (H)	<1 (H)			
7/28/2022						<1 (H)	<1 (H)	<1 (H)
10/19/2022	0.13	0.21			0.073 (J)			
10/20/2022			0.32	0.22		0.092 (J)	0.16	0.13
12/5/2022				0.15	<0.1			
12/6/2022		0.17	0.3			0.072 (J)	0.12	0.092 (J)
1/18/2023	0.075 (J)	0.13	0.18	0.14	<0.1			
1/19/2023						<0.1	0.096 (J)	0.079 (J)
3/1/2023		0.098 (J)	0.13	0.12	<0.1			
3/2/2023						<0.1	0.087 (J)	0.074 (J)
4/26/2023	<0.1	0.11	0.11	0.16				
4/27/2023					<0.1	<0.1	0.083 (J)	0.074 (J)
6/12/2023		0.11	0.12	0.15				
6/13/2023					<0.1	<0.1	0.084 (J)	0.074 (J)
7/26/2023						<0.1	0.086 (J)	
7/27/2023		0.1	0.093 (J)	0.11	<0.1			
7/28/2023								0.076 (J)
10/17/2023	0.079 (J)	0.11	0.12	0.13		<0.1		
10/18/2023					<0.1		0.085 (J)	0.075 (J)
2/7/2024	0.068 (J)	0.097 (J)	0.074 (J)	0.12	0.027 (J)			
2/8/2024						0.054 (J)	0.077 (J)	0.071 (J)
4/23/2024	0.05 (J)	0.081 (J)	0.041 (J)					
4/24/2024				0.16	0.029 (J)	0.05 (J)	0.05 (J)	0.069 (J)
10/16/2024	0.064 (J)		0.04 (J)					
10/17/2024		0.09 (J)		0.14	0.03 (J)	0.059 (J)	0.084 (J)	0.078 (J)

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-U1 (bg)	MW-D6	MW-U2 (bg)	MW-D5	MW-D4	MW-D7	MW-D8	MW-D9
2/28/2017	2.8 (J)							
3/27/2017	2.4 (J)							
4/24/2017	1.4 (J)							
5/22/2017	1.5 (J)							
6/19/2017	1.8 (J)							
7/17/2017	2.8 (J)							
8/14/2017	2.6 (J)							
9/13/2017	3.1 (J)							
6/5/2018	2.9 (J)							
11/29/2018	2 (J)							
4/29/2019	<5							
10/23/2019	2.8 (J)							
4/27/2020	2.6 (J)							
11/19/2020	2.3 (J)							
4/26/2021	8.867 (D)							
10/26/2021	<5							
4/26/2022	4.3 (J)							
7/27/2022		2 (J)	50 (F1)	1.9 (J)	2.3 (J)			
7/28/2022						3.8 (J)	17	2 (J)
10/19/2022	2.4 (J)	2.2 (J)		2.7 (J)				
10/20/2022			35		1.8 (J)	4.5 (J)	18	2.1 (J)
12/5/2022				<5	1.5 (J)			
12/6/2022		1.8 (J)	29			3.7 (J)	19	2.2 (J)
1/18/2023	1.9 (J)	1.9 (J)	120	3.1 (J)	<5			
1/19/2023						4.1 (J)	19	2.4 (J)
3/1/2023		3.4 (J)	38	3.8 (J)	1.6 (J)			
3/2/2023						4.1 (J)	24	5.1
4/26/2023	2 (J)	3.4 (J)	28		<5			
4/27/2023				2.5 (J)		13	19	2.3 (J)
6/12/2023		3.1 (J)	27		<5			
6/13/2023				1.4 (J)		8.4	18	2.5 (J)
7/26/2023							20	<5
7/27/2023		2.1 (J)	19 (F1)	<5	<5			
7/28/2023						4.1 (J)		
10/17/2023	2 (J)	2.4 (J)	17		<5		60	
10/18/2023				2.1 (J)		4.1 (J)		2.2 (J)
2/7/2024	2.5 (J)	3.5 (J)	62	2.8 (J)	2.3 (J)			
2/8/2024						4 (J)	29	3 (J)
4/23/2024	2.3 (J)	4.9 (J)	23					
4/24/2024				3.7 (J)	1.4 (J)	8.5	25	24
10/16/2024	2.3 (J)		20					
10/17/2024		6.2		5.4	<5	4 (J)	21	4.3 (J)

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/31/2024 10:28 AM View: Sanitas\_through\_October2024

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

	MW-D4	MW-D5	MW-D6	MW-D7	MW-D8	MW-D9	MW-U2 (bg)	MW-U1 (bg)
2/28/2017								80
3/27/2017								120
4/24/2017								44
5/22/2017								100
6/19/2017								92
7/17/2017								78
8/14/2017								86
9/13/2017								110
6/5/2018								110
11/29/2018								66
4/29/2019								120
10/23/2019								120
4/27/2020								120
11/19/2020								130
4/26/2021								98
10/26/2021								86
4/26/2022								98
7/27/2022	190	220	250				230	
7/28/2022				350	270	170		
10/19/2022		190	170					130
10/20/2022	220			270	520	120	130	
12/5/2022	210	240						
12/6/2022			160	270	240	210	170	
1/18/2023	140	160	2100				240	110
1/19/2023				220	240	180		
3/1/2023	180	120	150				120	
3/2/2023				140	240	190		
4/26/2023	140		150				84	110
4/27/2023		160		230	280	160		
6/12/2023	150		140				96	
6/13/2023		180		220	240	210		
7/26/2023					250	170		
7/27/2023	140	170	110				90	
7/28/2023				230				
10/17/2023	150		120		260		98	110 (H)
10/18/2023		170		220		160		
2/7/2024	130	170	130				150	96
2/8/2024				200	250	170		
4/23/2024			120				58	120
4/24/2024	180	130		280	240	250		
10/16/2024							80 (H)	110 (H)
10/17/2024	140 (H)	130 (H)	120 (H)	210 (H)	280 (H)	160 (H)		

# Summary Report

Constituent: Antimony Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 102  
 ND/Trace = 102  
 Wells = 8  
 Minimum Value = 0.00042  
 Maximum Value = 0.005  
 Mean Value = 0.002632  
 Median Value = 0.0025  
 Standard Deviation = 0.0007058  
 Coefficient of Variation = 0.2682  
 Skewness = 2.046

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	11	0.00042	0.005	0.002535	0.0025	0.0009799	0.3865	0.5568
MW-D5	12	12	0.0025	0.005	0.002708	0.0025	0.0007217	0.2665	3.015
MW-D6	12	12	0.0025	0.005	0.002708	0.0025	0.0007217	0.2665	3.015
MW-D7	12	12	0.0025	0.005	0.002708	0.0025	0.0007217	0.2665	3.015
MW-D8	12	12	0.0025	0.005	0.002708	0.0025	0.0007217	0.2665	3.015
MW-D9	12	12	0.0025	0.005	0.002708	0.0025	0.0007217	0.2665	3.015
MW-U2 (bg)	12	12	0.0025	0.005	0.002708	0.0025	0.0007217	0.2665	3.015
MW-U1 (bg)	18	18	0.0005	0.0025	0.002389	0.0025	0.0004714	0.1973	-3.881

# Summary Report

Constituent: Arsenic Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 102  
 ND/Trace = 96  
 Wells = 8  
 Minimum Value = 0.00015  
 Maximum Value = 0.0025  
 Mean Value = 0.001381  
 Median Value = 0.0013  
 Standard Deviation = 0.0003645  
 Coefficient of Variation = 0.264  
 Skewness = 1.762

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	11	0.0013	0.0025	0.001409	0.0013	0.0003618	0.2568	2.846
MW-D5	11	11	0.0013	0.0025	0.001409	0.0013	0.0003618	0.2568	2.846
MW-D6	11	11	0.0013	0.0025	0.001409	0.0013	0.0003618	0.2568	2.846
MW-D7	11	11	0.0013	0.0025	0.001409	0.0013	0.0003618	0.2568	2.846
MW-D8	11	11	0.0013	0.0025	0.001409	0.0013	0.0003618	0.2568	2.846
MW-D9	11	6	0.00095	0.0025	0.001414	0.0013	0.0003848	0.2722	2.162
MW-U2 (bg)	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-U1 (bg)	24	20	0.00015	0.0025	0.001292	0.0013	0.0004079	0.3157	-0.0515



# Summary Report

Constituent: Barium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 109  
 ND/Trace = 15  
 Wells = 8  
 Minimum Value = 0.0018  
 Maximum Value = 0.15  
 Mean Value = 0.03112  
 Median Value = 0.025  
 Standard Deviation = 0.02912  
 Coefficient of Variation = 0.9358  
 Skewness = 1.308

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	0	0.018	0.039	0.027	0.026	0.006796	0.2517	0.6354
MW-D5	12	0	0.022	0.062	0.03317	0.0295	0.01186	0.3576	1.661
MW-D6	12	0	0.0081	0.012	0.009383	0.00905	0.001268	0.1352	0.9554
MW-D7	12	0	0.074	0.15	0.09292	0.086	0.02189	0.2356	1.687
MW-D8	12	0	0.048	0.061	0.05525	0.0555	0.004115	0.07448	-0.4809
MW-D9	12	0	0.037	0.053	0.042	0.041	0.004553	0.1084	1.292
MW-U2 (bg)	12	0	0.0092	0.043	0.01751	0.014	0.01001	0.572	1.584
MW-U1 (bg)	25	0	0.0018	0.0062	0.002612	0.0022	0.0009842	0.3768	2.292

# Summary Report

Constituent: Beryllium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 4/24/2024, a summary of the selected data set:

Observations = 94  
 ND/Trace = 94  
 Wells = 8  
 Minimum Value = 0.00028  
 Maximum Value = 0.004  
 Mean Value = 0.002119  
 Median Value = 0.002  
 Standard Deviation = 0.0005906  
 Coefficient of Variation = 0.2787  
 Skewness = 1.848

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	11	0.002	0.004	0.002182	0.002	0.000603	0.2764	2.846
MW-D5	11	10	0.00028	0.004	0.002025	0.002	0.0008337	0.4116	0.4308
MW-D6	11	11	0.002	0.004	0.002182	0.002	0.000603	0.2764	2.846
MW-D7	11	11	0.002	0.004	0.002182	0.002	0.000603	0.2764	2.846
MW-D8	11	11	0.002	0.004	0.002182	0.002	0.000603	0.2764	2.846
MW-D9	11	11	0.002	0.004	0.002182	0.002	0.000603	0.2764	2.846
MW-U2 (bg)	11	11	0.002	0.004	0.002182	0.002	0.000603	0.2764	2.846
MW-U1 (bg)	17	17	0.0004	0.0025	0.001935	0.002	0.0004137	0.2138	-3.124

# Summary Report

Constituent: Cadmium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 4/24/2024, a summary of the selected data set:

Observations = 95  
 ND/Trace = 93  
 Wells = 8  
 Minimum Value = 0.0002  
 Maximum Value = 0.0025  
 Mean Value = 0.001092  
 Median Value = 0.001  
 Standard Deviation = 0.0003285  
 Coefficient of Variation = 0.3007  
 Skewness = 2.411

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	11	0.001	0.002	0.001091	0.001	0.0003015	0.2764	2.846
MW-D5	11	11	0.001	0.002	0.001091	0.001	0.0003015	0.2764	2.846
MW-D6	11	11	0.001	0.002	0.001091	0.001	0.0003015	0.2764	2.846
MW-D7	11	10	0.00086	0.002	0.001078	0.001	0.0003086	0.2862	2.743
MW-D8	11	10	0.001	0.002	0.001109	0.001	0.0003015	0.2719	2.664
MW-D9	11	11	0.001	0.002	0.001091	0.001	0.0003015	0.2764	2.846
MW-U2 (bg)	11	10	0.001	0.002	0.001182	0.001	0.0004045	0.3423	1.65
MW-U1 (bg)	18	18	0.0002	0.0025	0.001039	0.001	0.0004104	0.395	2.214

# Summary Report

Constituent: Chromium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 100  
 ND/Trace = 89  
 Wells = 8  
 Minimum Value = 0.001  
 Maximum Value = 0.039  
 Mean Value = 0.003201  
 Median Value = 0.0025  
 Standard Deviation = 0.004512  
 Coefficient of Variation = 1.41  
 Skewness = 6.422

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	8	0.0017	0.011	0.003373	0.0025	0.002667	0.7907	2.408
MW-D5	11	8	0.0016	0.026	0.004909	0.0025	0.007053	1.437	2.764
MW-D6	11	5	0.001	0.039	0.0059	0.0025	0.01104	1.871	2.79
MW-D7	11	9	0.0012	0.005	0.002491	0.0025	0.0009813	0.3939	1.276
MW-D8	11	9	0.0018	0.0044	0.002609	0.0025	0.00063	0.2415	2.182
MW-D9	11	9	0.0014	0.0049	0.002618	0.0025	0.0008256	0.3153	1.874
MW-U2 (bg)	11	7	0.0017	0.0063	0.003136	0.0025	0.001407	0.4487	1.289
MW-U1 (bg)	23	3	0.0011	0.0051	0.001943	0.0015	0.001087	0.5591	2.064

# Summary Report

Constituent: Cobalt Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 107  
 ND/Trace = 106  
 Wells = 8  
 Minimum Value = 0.00022  
 Maximum Value = 0.005  
 Mean Value = 0.002426  
 Median Value = 0.0025  
 Standard Deviation = 0.0009125  
 Coefficient of Variation = 0.3761  
 Skewness = 0.5429

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	10	0.00057	0.005	0.002539	0.0025	0.0009519	0.3749	0.7997
MW-D5	12	10	0.0012	0.005	0.002592	0.0025	0.0008447	0.3259	1.774
MW-D6	12	11	0.0021	0.005	0.002675	0.0025	0.0007412	0.2771	2.874
MW-D7	12	5	0.00054	0.005	0.001916	0.0022	0.001289	0.6726	0.9495
MW-D8	12	10	0.00022	0.005	0.002485	0.0025	0.001027	0.4133	0.3707
MW-D9	12	10	0.00023	0.005	0.002536	0.0025	0.001019	0.4019	0.2427
MW-U2 (bg)	12	10	0.00068	0.005	0.002532	0.0025	0.0009362	0.3698	1.001
MW-U1 (bg)	23	22	0.0005	0.0025	0.002274	0.0025	0.0006129	0.2695	-2.393

# Summary Report

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 109  
 ND/Trace = 8  
 Wells = 8  
 Minimum Value = -0.189  
 Maximum Value = 1.8  
 Mean Value = 0.4759  
 Standard Deviation = 0.441  
 Median Value = 0.3711  
 Coefficient of Variation = 0.7797  
 Skewness = 0.7312

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	1	0.049	1.29	0.5699	0.5805	0.3452	0.6057	0.4421
MW-D5	12	1	0.219	1.8	0.6111	0.4935	0.4162	0.6811	2.059
MW-D6	12	1	-0.0527	1.43	0.588	0.474	0.4483	0.7624	0.6983
MW-D7	12	1	-0.0315	1.22	0.562	0.571	0.3568	0.6349	0.1902
MW-D8	12	1	-0.0397	0.851	0.4558	0.5565	0.3017	0.6618	-0.4467
MW-D9	12	1	-0.0298	0.887	0.3951	0.4075	0.2798	0.7081	0.1708
MW-U2 (bg)	12	1	0.0267	1.09	0.5385	0.5785	0.365	0.6778	-0.03709
MW-U1 (bg)	25	1	-0.189	1.39	0.2892	0.19	0.3622	1.252	1.1

# Summary Report

Constituent: Fluoride Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 109  
 ND/Trace = 79  
 Wells = 8  
 Minimum Value = 0.027  
 Maximum Value = 1  
 Mean Value = 0.1495  
 Standard Deviation = 0.097  
 Coefficient of Variation = 1.431  
 Skewness = 3.504

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	1	0.11	1	0.2167	0.145	0.2483	1.146	2.946
MW-D5	12	8	0.027	1	0.1549	0.1	0.268	1.73	2.94
MW-D6	12	1	0.081	1	0.1922	0.11	0.257	1.338	2.91
MW-D7	12	1	0.069	1	0.1577	0.0755	0.2658	1.686	2.995
MW-D8	12	7	0.05	1	0.1606	0.1	0.2651	1.651	2.984
MW-D9	12	1	0.05	1	0.1677	0.0855	0.2635	1.571	2.962
MW-U2 (bg)	12	0	0.04	0.45	0.1648	0.12	0.1267	0.7684	1.124
MW-U1 (bg)	25	3	0.04	0.13	0.06896	0.06	0.02185	0.3169	1.087

# Summary Report

Constituent: Lead Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 102  
 ND/Trace = 102  
 Wells = 8  
 Minimum Value = 0.00025  
 Maximum Value = 0.0025  
 Mean Value = 0.001351  
 Median Value = 0.0013  
 Standard Deviation = 0.0003491  
 Coefficient of Variation = 0.2583  
 Skewness = 1.864

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-D5	12	9	0.0004	0.0025	0.001279	0.0013	0.0004678	0.3657	1.019
MW-D6	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-D7	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-D8	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-D9	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-U2 (bg)	12	12	0.0013	0.0025	0.0014	0.0013	0.0003464	0.2474	3.015
MW-U1 (bg)	18	17	0.00025	0.0013	0.001206	0.0013	0.0002833	0.235	-2.743



# Summary Report

Constituent: Lithium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 4/24/2024, a summary of the selected data set:

Observations = 97  
 ND/Trace = 92  
 Wells = 8  
 Minimum Value = 0.00034  
 Maximum Value = 0.0067  
 Mean Value = 0.002826  
 Median Value = 0.0025  
 Standard Deviation = 0.001021  
 Coefficient of Variation = 0.3613  
 Skewness = 1.782

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	11	0.0025	0.005	0.002727	0.0025	0.0007538	0.2764	2.846
MW-D5	11	9	0.0025	0.0067	0.003364	0.0025	0.001534	0.456	1.268
MW-D6	11	10	0.0025	0.0056	0.003009	0.0025	0.001141	0.379	1.703
MW-D7	11	11	0.0025	0.005	0.002727	0.0025	0.0007538	0.2764	2.846
MW-D8	11	11	0.0025	0.005	0.002955	0.0025	0.001011	0.3423	1.65
MW-D9	11	10	0.0025	0.005	0.002945	0.0025	0.0009913	0.3366	1.652
MW-U2 (bg)	11	11	0.0025	0.005	0.002727	0.0025	0.0007538	0.2764	2.846
MW-U1 (bg)	20	18	0.00034	0.0058	0.002457	0.0025	0.001014	0.4125	1.057

# Summary Report

Constituent: Mercury Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 4/24/2024, a summary of the selected data set:

Observations = 94  
 ND/Trace = 92  
 Wells = 8  
 Minimum Value = 0.000099  
 Maximum Value = 0.00022  
 Mean Value = 0.000199  
 Median Value = 0.0002  
 Standard Deviation = 0.00001108  
 Coefficient of Variation = 0.05566  
 Skewness = -7.873

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	11	0.0002	0.0002	0.0002	0.0002	0	0	NaN
MW-D5	11	11	0.0002	0.0002	0.0002	0.0002	0	0	NaN
MW-D6	11	11	0.0002	0.0002	0.0002	0.0002	0	0	NaN
MW-D7	11	11	0.0002	0.0002	0.0002	0.0002	0	0	NaN
MW-D8	11	10	0.0002	0.00022	0.0002018	0.0002	0.00000603	0.02988	2.846
MW-D9	11	9	0.00019	0.00022	0.0002009	0.0002	0.000007006	0.03487	1.724
MW-U2 (bg)	11	10	0.00018	0.0002	0.0001982	0.0002	0.00000603	0.03043	-2.846
MW-U1 (bg)	17	16	0.000099	0.0002	0.0001941	0.0002	0.0000245	0.1262	-3.75

# Summary Report

Constituent: Molybdenum Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/16/2024, a summary of the selected data set:

Observations = 101  
 ND/Trace = 101  
 Wells = 8  
 Minimum Value = 0.00046  
 Maximum Value = 0.02  
 Mean Value = 0.009899  
 Median Value = 0.01  
 Standard Deviation = 0.003857  
 Coefficient of Variation = 0.3896  
 Skewness = 0.5464

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	10	0.0038	0.02	0.01035	0.01	0.003703	0.3579	1.279
MW-D5	11	10	0.0027	0.02	0.01025	0.01	0.003907	0.3813	0.8767
MW-D6	11	10	0.0027	0.02	0.01025	0.01	0.003907	0.3813	0.8767
MW-D7	11	10	0.0031	0.02	0.01028	0.01	0.003831	0.3726	1.021
MW-D8	11	9	0.00046	0.02	0.009333	0.01	0.004969	0.5325	0.1323
MW-D9	11	9	0.0023	0.02	0.009582	0.01	0.004527	0.4725	0.5345
MW-U2 (bg)	12	11	0.0033	0.02	0.01027	0.01	0.003618	0.3521	1.163
MW-U1 (bg)	23	22	0.0011	0.02	0.009396	0.01	0.003592	0.3823	-0.04046

# Summary Report

Constituent: Selenium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 10/17/2024, a summary of the selected data set:

Observations = 105  
 ND/Trace = 90  
 Wells = 8  
 Minimum Value = 0.00039  
 Maximum Value = 0.0039  
 Mean Value = 0.001513  
 Median Value = 0.0013  
 Standard Deviation = 0.0006481  
 Coefficient of Variation = 0.4283  
 Skewness = 1.496

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	12	9	0.0011	0.0036	0.001608	0.0013	0.0007255	0.4511	2.05
MW-D5	12	10	0.001	0.0031	0.001525	0.0013	0.0006151	0.4034	1.871
MW-D6	12	9	0.0011	0.0025	0.001642	0.0013	0.0005501	0.3351	0.7334
MW-D7	12	10	0.001	0.0025	0.001567	0.0013	0.0005694	0.3635	1.067
MW-D8	12	9	0.00098	0.0034	0.001723	0.0013	0.0007846	0.4553	0.9582
MW-D9	12	9	0.00084	0.0039	0.001712	0.0013	0.0009014	0.5266	1.481
MW-U2 (bg)	12	4	0.0011	0.0026	0.001608	0.0014	0.0005089	0.3164	1.069
MW-U1 (bg)	21	14	0.00039	0.0013	0.00106	0.0013	0.0003552	0.335	-0.8526

# Summary Report

Constituent: Thallium Analysis Run 12/31/2024 10:33 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

For observations made between 2/28/2017 and 4/24/2024, a summary of the selected data set:

Observations = 98  
 ND/Trace = 98  
 Wells = 8  
 Minimum Value = 0.0001  
 Maximum Value = 0.001  
 Mean Value = 0.0005316  
 Median Value = 0.0005  
 Standard Deviation = 0.0001367  
 Coefficient of Variation = 0.2571  
 Skewness = 2.581

<u>Well</u>	<u>#Obs.</u>	<u>ND/Trace</u>	<u>Min</u>	<u>Max</u>	<u>Mean</u>	<u>Median</u>	<u>Std.Dev.</u>	<u>CV</u>	<u>Skewness</u>
MW-D4	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-D5	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-D6	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-D7	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-D8	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-D9	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-U2 (bg)	11	11	0.0005	0.001	0.0005455	0.0005	0.0001508	0.2764	2.846
MW-U1 (bg)	21	21	0.0001	0.0005	0.000481	0.0005	0.00008729	0.1815	-4.249

# Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/31/2024, 10:42 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	12	0.002535	0.0009799	unknown	ShapiroWilk
Antimony (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	12	0.002708	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	12	0.002708	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	12	0.002708	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	12	0.002708	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	12	0.002708	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	12	0.002708	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	18	0.002389	0.0004714	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.001409	0.0003618	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.001409	0.0003618	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.001409	0.0003618	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.001409	0.0003618	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.001409	0.0003618	unknown	ShapiroWilk
<b>Arsenic (mg/L)</b>	<b>MW-D9</b>	<b>Yes</b>	<b>0.0025,0....</b>	<b>10/20/202...</b>	<b>NP</b>	<b>NaN</b>	<b>11</b>	<b>0.001414</b>	<b>0.0003848</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Arsenic (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	24	0.001292	0.0004079	unknown	ShapiroWilk
Barium (mg/L)	MW-D4	No	n/a	n/a	NP	NaN	12	0.027	0.006796	ln(x)	ShapiroWilk
<b>Barium (mg/L)</b>	<b>MW-D5</b>	<b>Yes</b>	<b>0.062,0.053</b>	<b>2/7/2024,....</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.03317</b>	<b>0.01186</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Barium (mg/L)	MW-D6	No	n/a	n/a	NP	NaN	12	0.009383	0.001268	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D7	No	n/a	n/a	NP	NaN	12	0.09292	0.02189	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D8	No	n/a	n/a	NP	NaN	12	0.05525	0.004115	x^6	ShapiroWilk
Barium (mg/L)	MW-D9	No	n/a	n/a	NP	NaN	12	0.042	0.004553	ln(x)	ShapiroWilk
Barium (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	12	0.01751	0.01001	ln(x)	ShapiroWilk
Barium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	25	0.002612	0.0009842	ln(x)	ShapiroWilk
Beryllium (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.002182	0.000603	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.002025	0.0008337	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.002182	0.000603	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.002182	0.000603	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.002182	0.000603	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.002182	0.000603	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	11	0.002182	0.000603	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.001935	0.0004137	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.001091	0.0003015	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.001091	0.0003015	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.001091	0.0003015	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.001078	0.0003086	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.001109	0.0003015	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.001091	0.0003015	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	11	0.001182	0.0004045	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	18	0.001039	0.0004104	unknown	ShapiroWilk
Chromium (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.003373	0.002667	unknown	ShapiroWilk
<b>Chromium (mg/L)</b>	<b>MW-D5</b>	<b>Yes</b>	<b>0.026</b>	<b>10/18/2023</b>	<b>NP</b>	<b>NaN</b>	<b>11</b>	<b>0.004909</b>	<b>0.007053</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Chromium (mg/L)	MW-D6	No	n/a	n/a	NP	NaN	11	0.0059	0.01104	ln(x)	ShapiroWilk
Chromium (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.002491	0.0009813	unknown	ShapiroWilk
Chromium (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.002609	0.00063	unknown	ShapiroWilk
Chromium (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.002618	0.0008256	unknown	ShapiroWilk
Chromium (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	11	0.003136	0.001407	ln(x)	ShapiroWilk
Chromium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	23	0.001943	0.001087	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	12	0.002539	0.0009519	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	12	0.002592	0.0008447	unknown	ShapiroWilk

## Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/31/2024, 10:42 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Cobalt (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	12	0.002675	0.0007412	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D7	No	n/a	n/a	NP	NaN	12	0.001916	0.001289	x <sup>2</sup> (1/3)	ShapiroWilk
Cobalt (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	12	0.002485	0.001027	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	12	0.002536	0.001019	unknown	ShapiroWilk
Cobalt (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	12	0.002532	0.0009362	unknown	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	23	0.002274	0.0006129	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D4	No	n/a	n/a	NP	NaN	12	0.5699	0.3452	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D5	No	n/a	n/a	NP	NaN	12	0.6111	0.4162	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D6	No	n/a	n/a	NP	NaN	12	0.588	0.4483	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D7	No	n/a	n/a	NP	NaN	12	0.562	0.3568	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D8	No	n/a	n/a	NP	NaN	12	0.4558	0.3017	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D9	No	n/a	n/a	NP	NaN	12	0.3951	0.2798	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	12	0.5385	0.365	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	25	0.2892	0.3622	normal	ShapiroWilk
<b>Fluoride (mg/L)</b>	<b>MW-D4</b>	<b>Yes</b>	<b>1</b>	<b>7/27/2022</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.2167</b>	<b>0.2483</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>Fluoride (mg/L)</b>	<b>MW-D5</b>	<b>Yes</b>	<b>1</b>	<b>7/27/2022</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.1549</b>	<b>0.268</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>Fluoride (mg/L)</b>	<b>MW-D6</b>	<b>Yes</b>	<b>1</b>	<b>7/27/2022</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.1922</b>	<b>0.257</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>Fluoride (mg/L)</b>	<b>MW-D7</b>	<b>Yes</b>	<b>1</b>	<b>7/28/2022</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.1577</b>	<b>0.2658</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>Fluoride (mg/L)</b>	<b>MW-D8</b>	<b>Yes</b>	<b>1</b>	<b>7/28/2022</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.1606</b>	<b>0.2651</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>Fluoride (mg/L)</b>	<b>MW-D9</b>	<b>Yes</b>	<b>1</b>	<b>7/28/2022</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.1677</b>	<b>0.2635</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Fluoride (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	12	0.1648	0.1267	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	25	0.06896	0.02185	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
<b>Lead (mg/L)</b>	<b>MW-D5</b>	<b>Yes</b>	<b>0.0025,0....</b>	<b>10/19/202...</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.001279</b>	<b>0.0004678</b>	<b>sqrt(x)</b>	<b>ShapiroWilk</b>
Lead (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
Lead (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
Lead (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
Lead (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
Lead (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	12	0.0014	0.0003464	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	18	0.001206	0.0002833	unknown	ShapiroWilk
Lithium (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.002727	0.0007538	unknown	ShapiroWilk
Lithium (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.003364	0.001534	unknown	ShapiroWilk
Lithium (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.003009	0.001141	unknown	ShapiroWilk
Lithium (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.002727	0.0007538	unknown	ShapiroWilk
Lithium (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.002955	0.001011	unknown	ShapiroWilk
Lithium (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.002945	0.0009913	unknown	ShapiroWilk
Lithium (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	11	0.002727	0.0007538	unknown	ShapiroWilk
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	20	0.002457	0.001014	unknown	ShapiroWilk
Mercury (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000245	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.01035	0.003703	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.01025	0.003907	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.01025	0.003907	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.01028	0.003831	unknown	ShapiroWilk

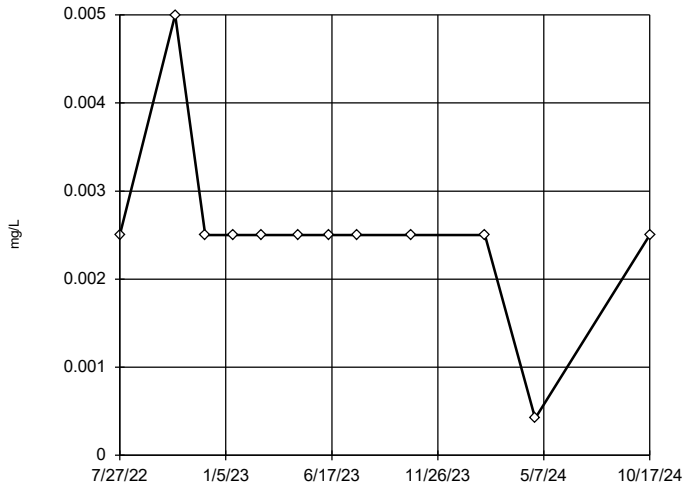
# Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/31/2024, 10:42 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Molybdenum (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.009333	0.004969	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.009582	0.004527	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	12	0.01027	0.003618	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	23	0.009396	0.003592	unknown	ShapiroWilk
<b>Selenium (mg/L)</b>	<b>MW-D4</b>	<b>Yes</b>	<b>0.0025,0....</b>	<b>10/20/202...</b>	<b>NP</b>	<b>NaN</b>	<b>12</b>	<b>0.001608</b>	<b>0.0007255</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Selenium (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	12	0.001525	0.0006151	unknown	ShapiroWilk
Selenium (mg/L)	MW-D6	No	n/a	n/a	NP	NaN	12	0.001642	0.0005501	ln(x)	ShapiroWilk
Selenium (mg/L)	MW-D7	No	n/a	n/a	NP	NaN	12	0.001567	0.0005694	ln(x)	ShapiroWilk
Selenium (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	12	0.001723	0.0007846	unknown	ShapiroWilk
Selenium (mg/L)	MW-D9	No	n/a	n/a	NP	NaN	12	0.001712	0.0009014	ln(x)	ShapiroWilk
Selenium (mg/L)	MW-U2 (bg)	No	n/a	n/a	NP	NaN	12	0.001608	0.0005089	ln(x)	ShapiroWilk
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	21	0.00106	0.0003552	ln(x)	ShapiroWilk
Thallium (mg/L)	MW-D4	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-D5	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-D6	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-D7	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-D8	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-D9	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-U2 (bg)	n/a	n/a	n/a	NP	NaN	11	0.000...	0.0001508	unknown	ShapiroWilk
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	21	0.000481	0.0000...	unknown	ShapiroWilk



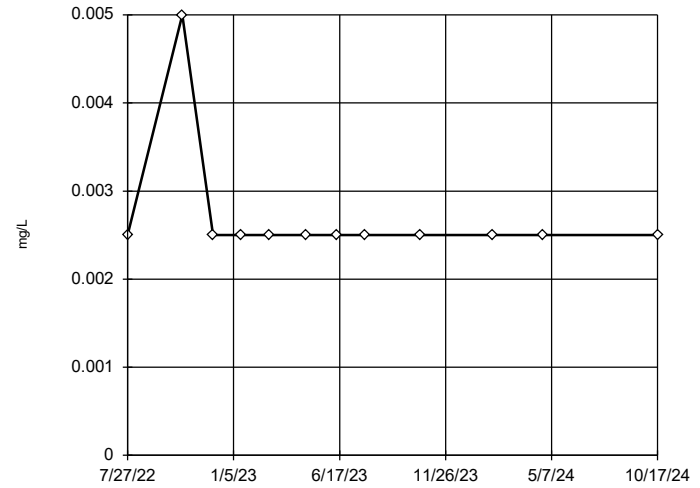
### Tukey's Outlier Screening MW-D4



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

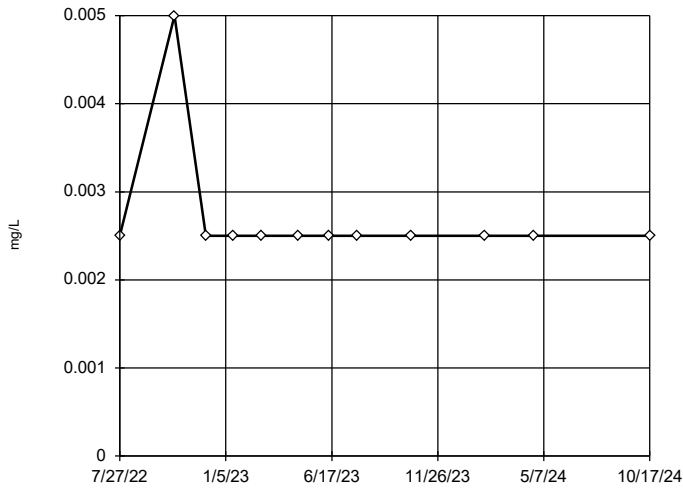
### Tukey's Outlier Screening MW-D5



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

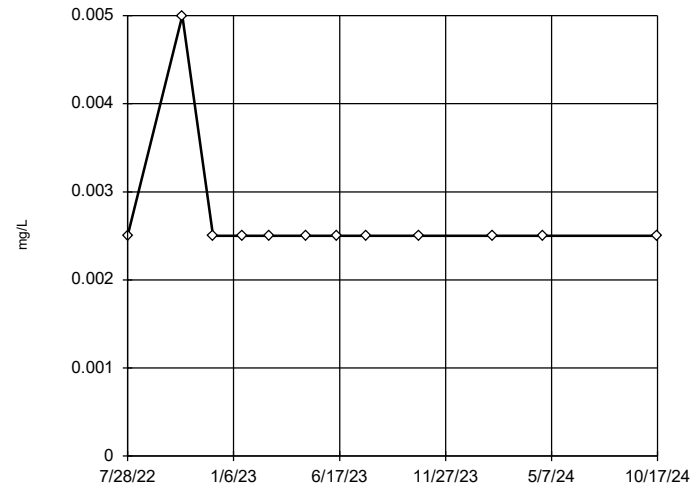
### Tukey's Outlier Screening MW-D6



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

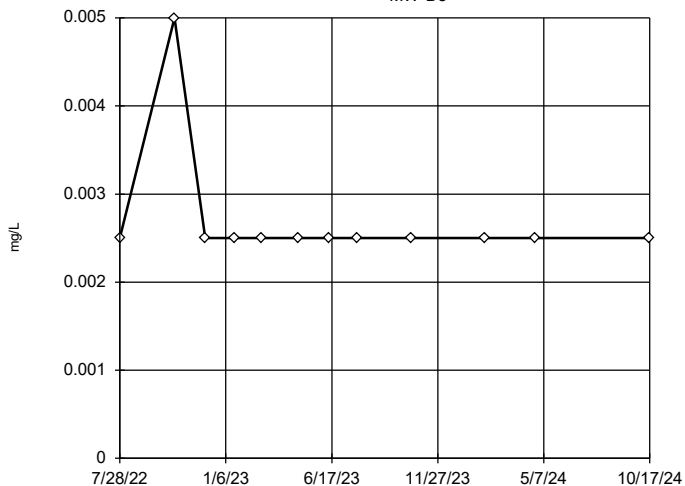
### Tukey's Outlier Screening MW-D7



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

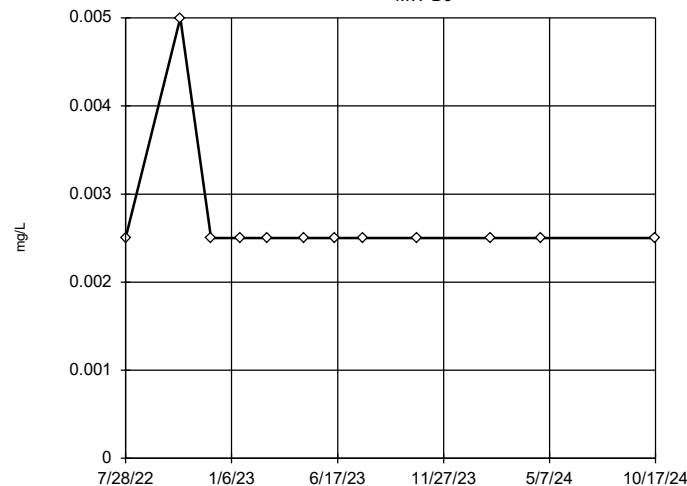
Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Tukey's Outlier Screening  
MW-D8



n = 12  
No outliers found. Tukey's method selected by user.  
Data were square transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening  
MW-D9

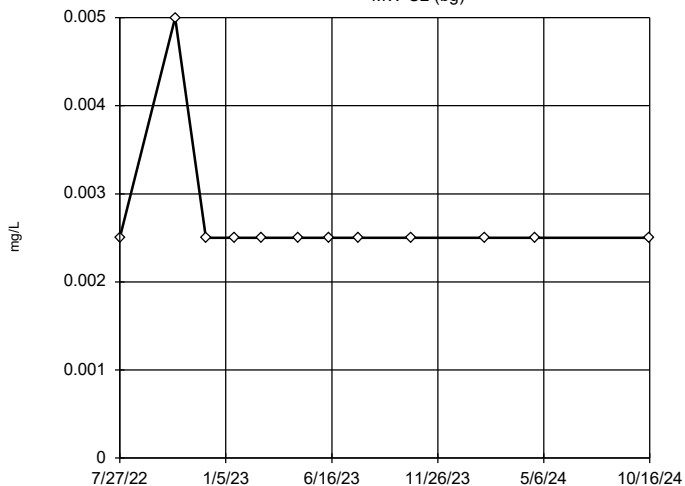


n = 12  
No outliers found. Tukey's method selected by user.  
Data were square transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

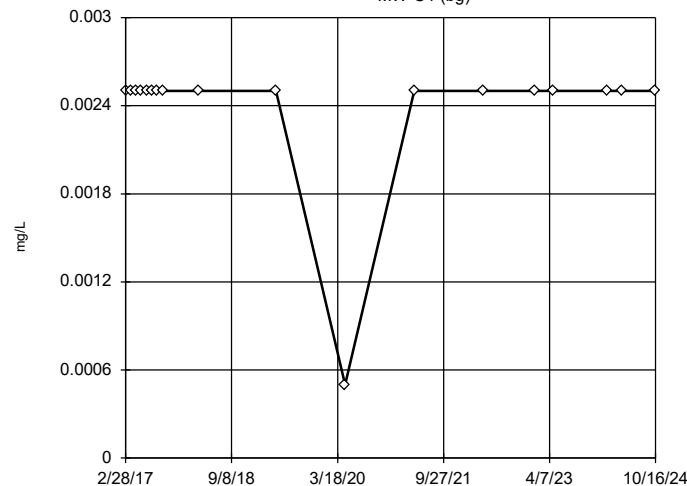
Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Tukey's Outlier Screening  
MW-U2 (bg)



n = 12  
No outliers found. Tukey's method selected by user.  
Data were square transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening  
MW-U1 (bg)

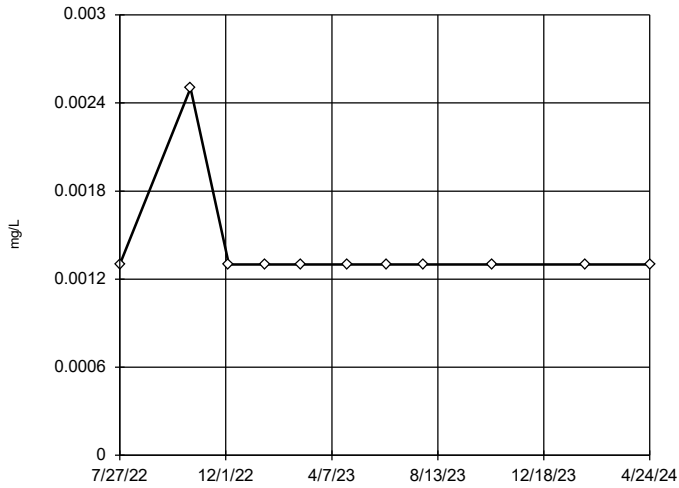


n = 18  
No outliers found. Tukey's method selected by user.  
Data were x^5 transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Constituent: Antimony Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

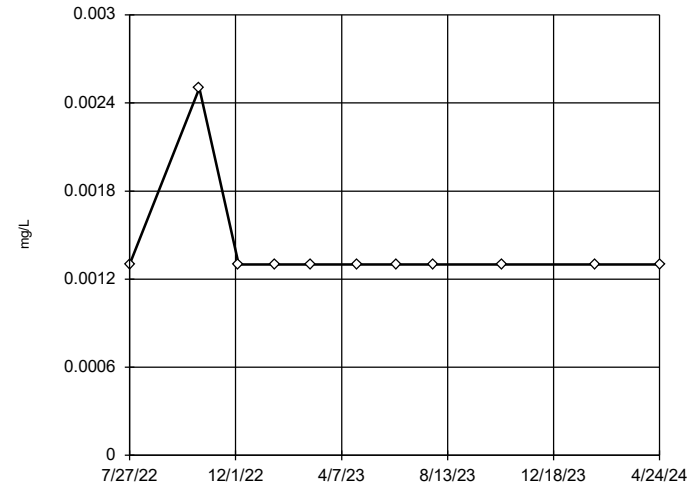
### Tukey's Outlier Screening MW-D4



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

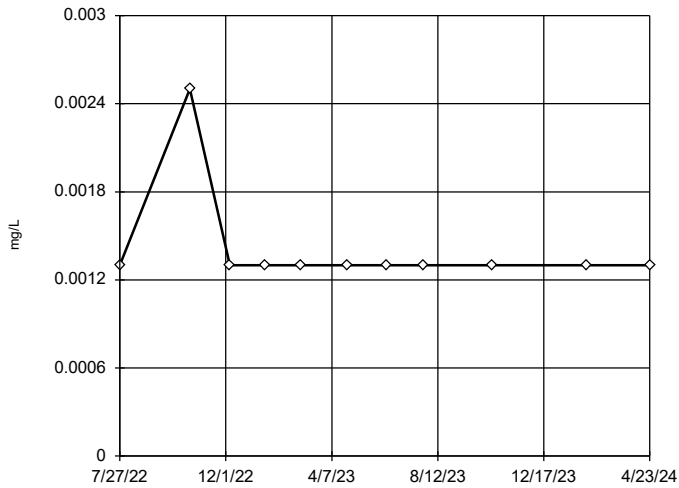
### Tukey's Outlier Screening MW-D5



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

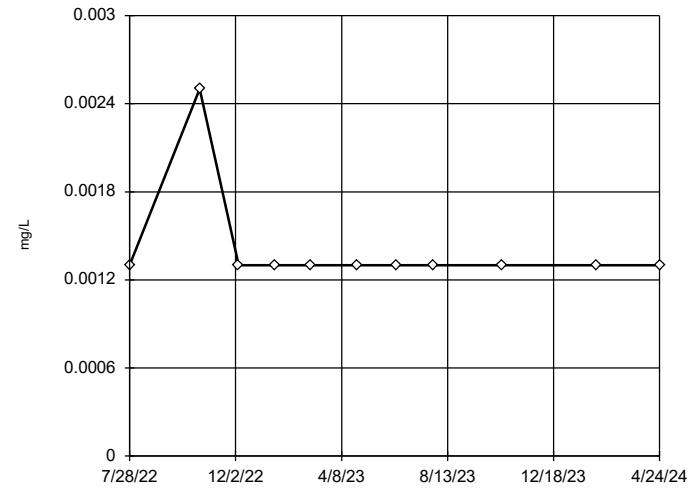
### Tukey's Outlier Screening MW-D6



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

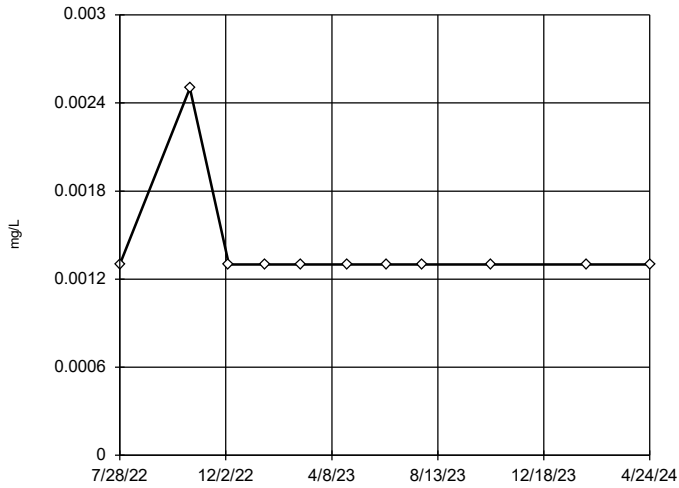
### Tukey's Outlier Screening MW-D7



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

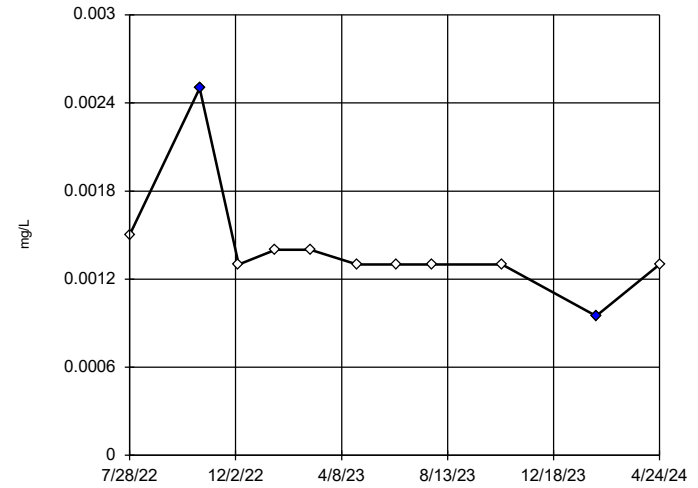
### Tukey's Outlier Screening MW-D8



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

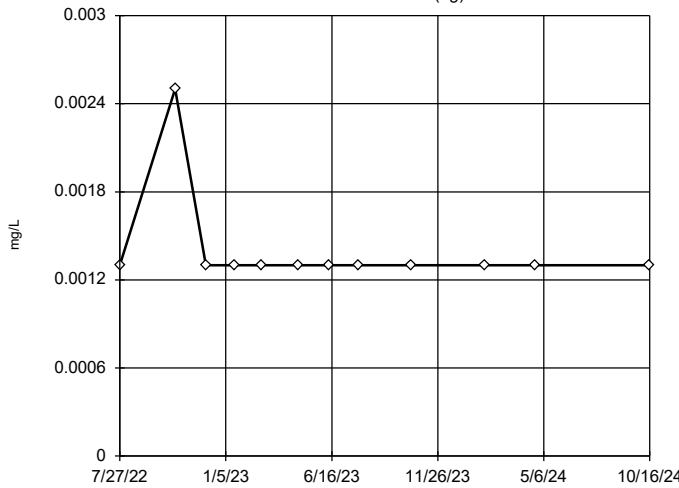
### Tukey's Outlier Screening MW-D9



n = 11  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.001749, low cutoff = 0.001041, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

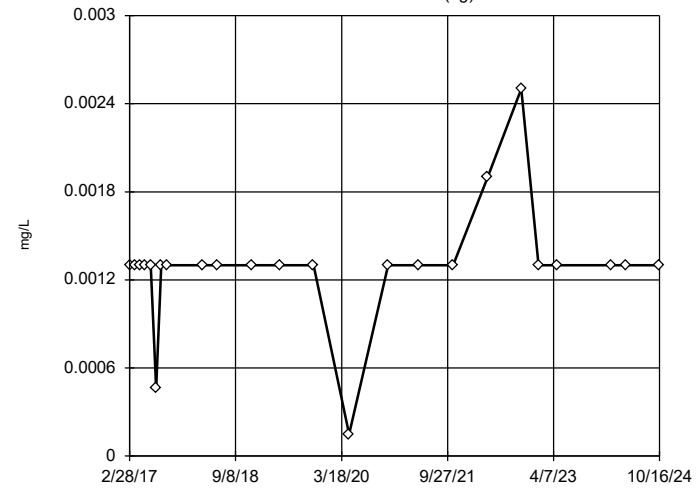
### Tukey's Outlier Screening MW-U2 (bg)



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

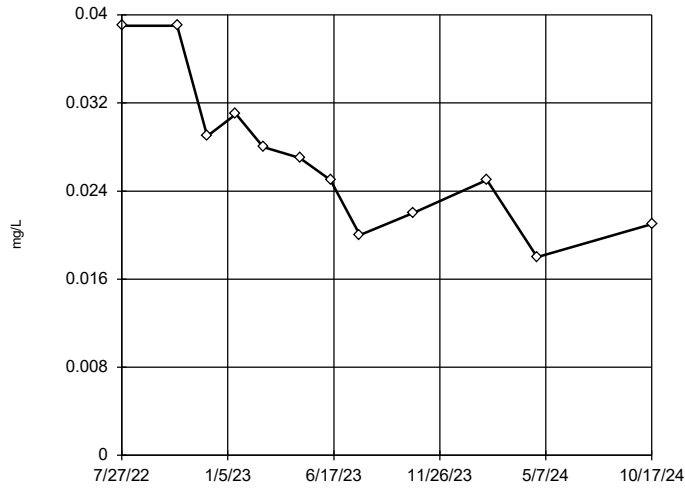
### Tukey's Outlier Screening MW-U1 (bg)



n = 24  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

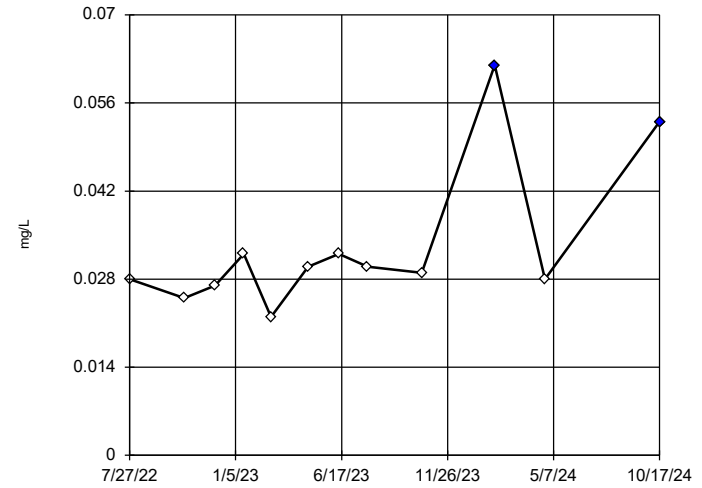
Tukey's Outlier Screening  
MW-D4



n = 12  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.08139, low cutoff = 0.007919, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

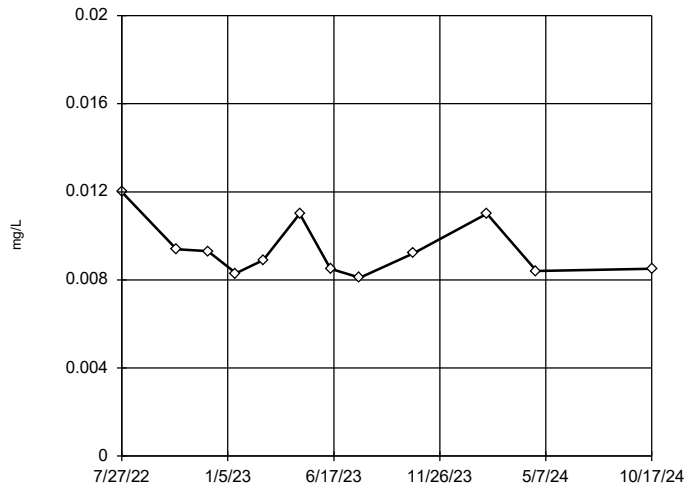
Tukey's Outlier Screening  
MW-D5



n = 12  
Outliers are drawn as solid.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.05044, low cutoff = 0.01744, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

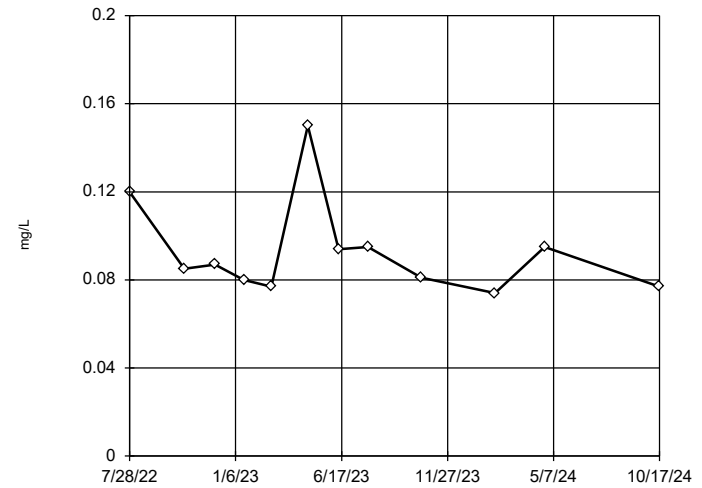
Tukey's Outlier Screening  
MW-D6



n = 12  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.01772, low cutoff = 0.004849, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Tukey's Outlier Screening  
MW-D7

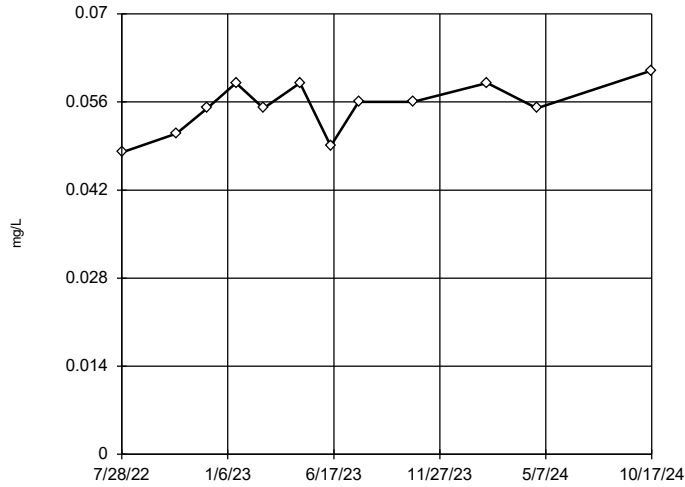


n = 12  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.1685, low cutoff = 0.04426, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening

MW-D8

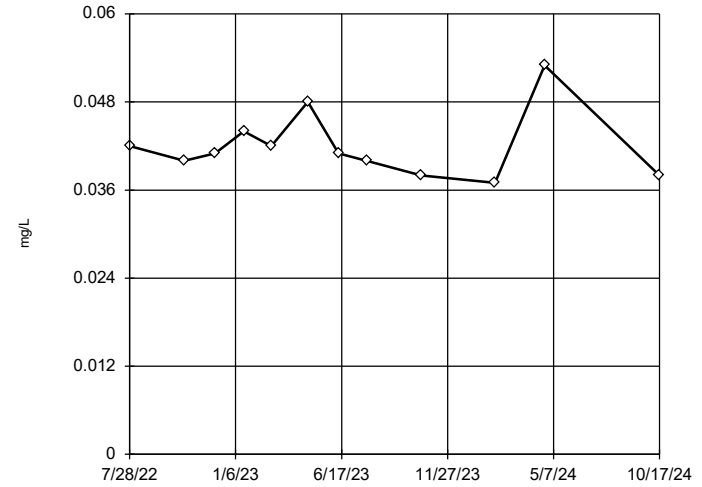


n = 12  
No outliers found.  
Tukey's method selected by user.  
Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.06822,  
low cutoff = -0.05746,  
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:35 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening

MW-D9

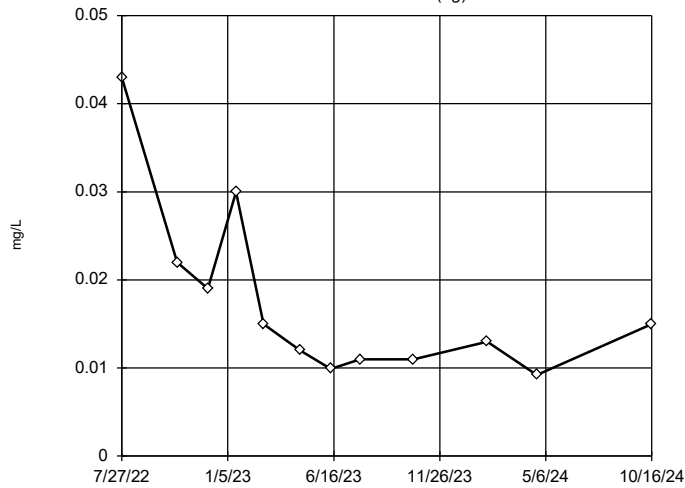


n = 12  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.05763,  
low cutoff = 0.02908,  
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening

MW-U2 (bg)

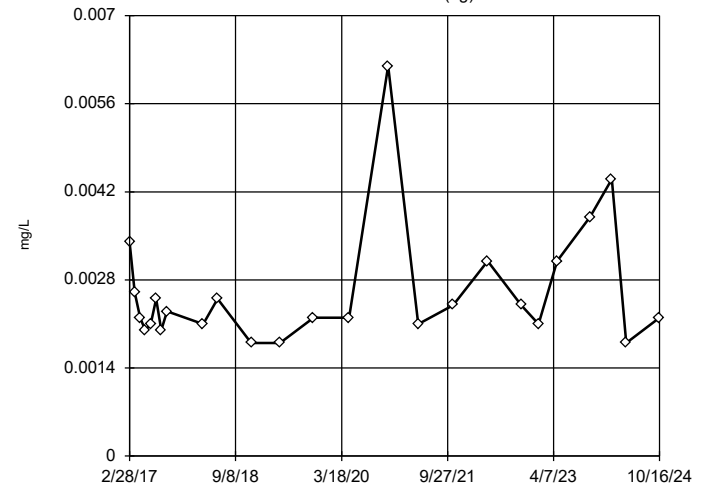


n = 12  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.1313,  
low cutoff = 0.001713,  
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening

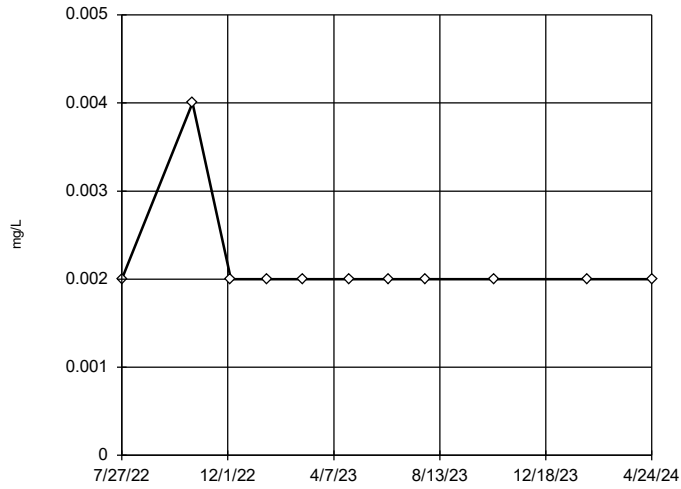
MW-U1 (bg)



n = 25  
No outliers found.  
Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.007015,  
low cutoff = 0.0008499,  
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

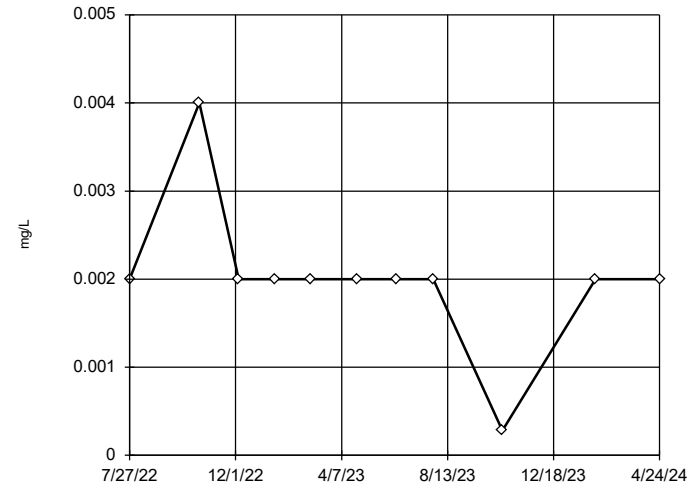
### Tukey's Outlier Screening MW-D4



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were  $x^4$  transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

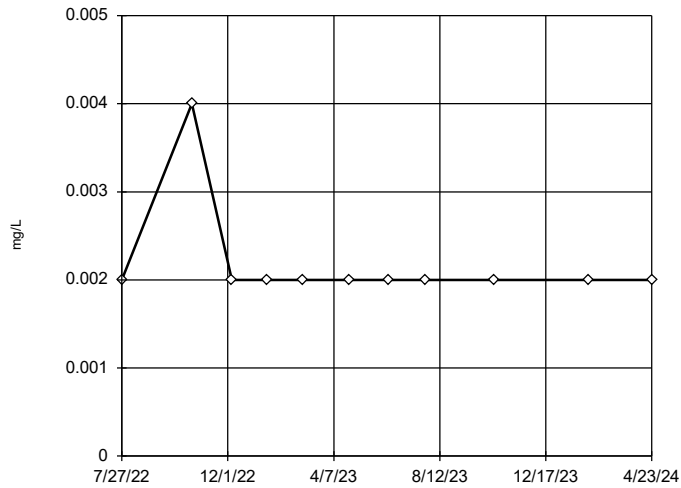
### Tukey's Outlier Screening MW-D5



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

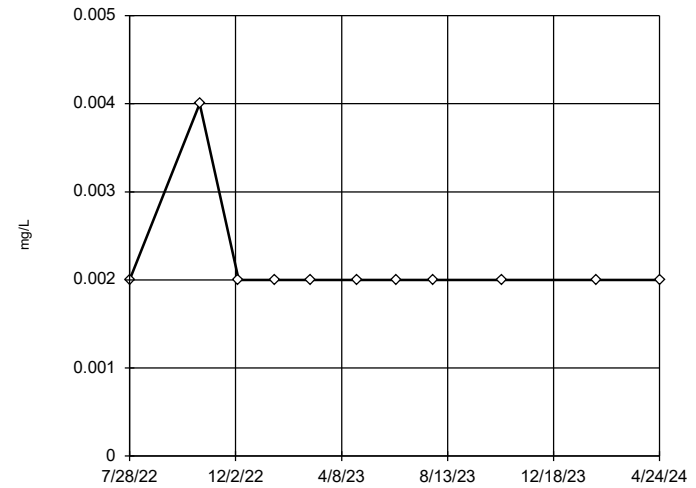
### Tukey's Outlier Screening MW-D6



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were  $x^4$  transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

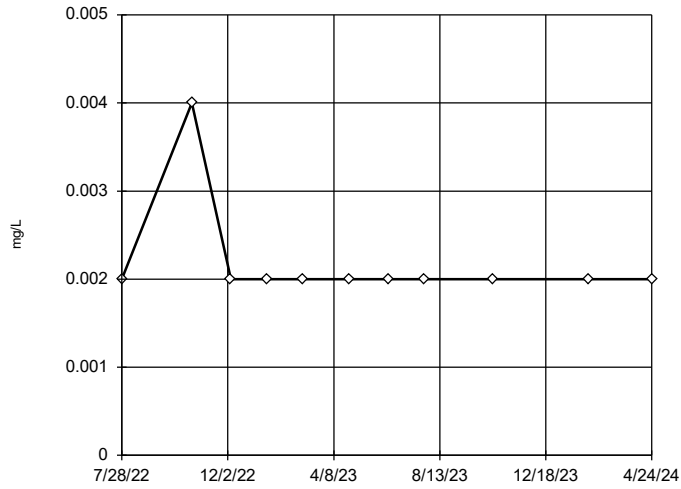
### Tukey's Outlier Screening MW-D7



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were  $x^4$  transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

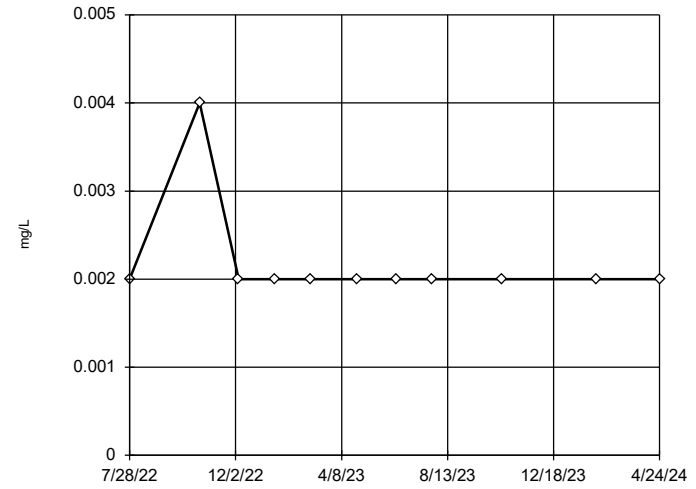
### Tukey's Outlier Screening MW-D8



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

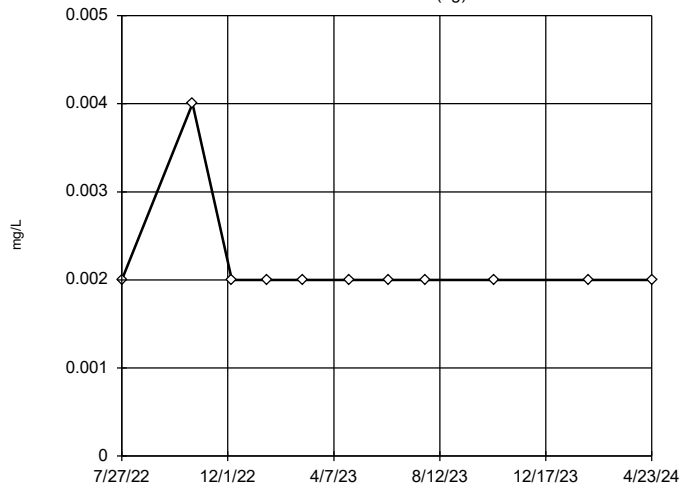
### Tukey's Outlier Screening MW-D9



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

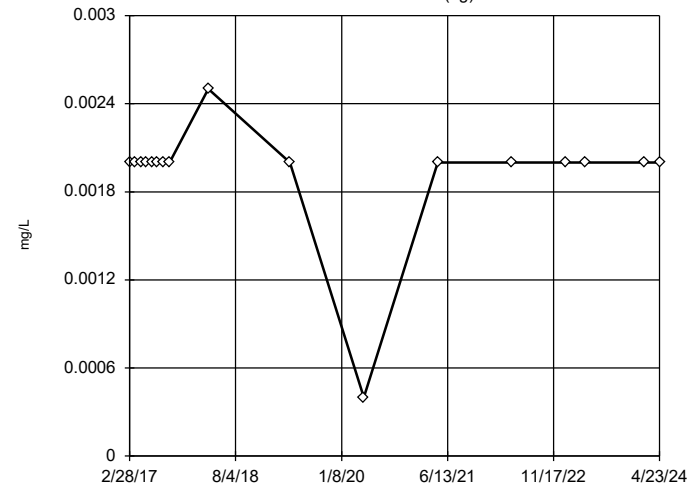
### Tukey's Outlier Screening MW-U2 (bg)



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening MW-U1 (bg)

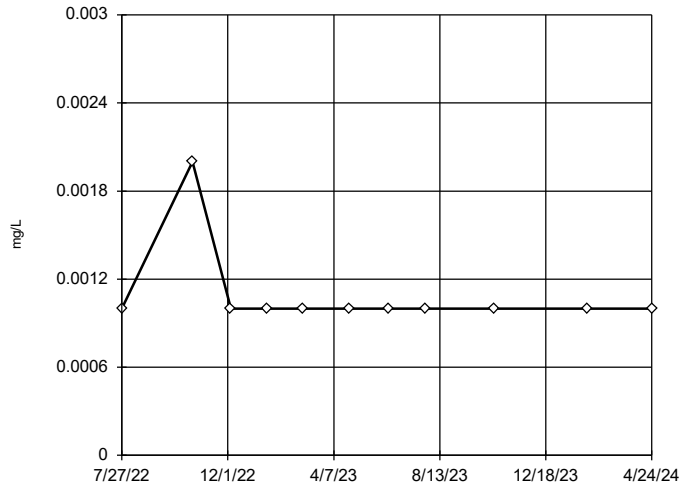


n = 17  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



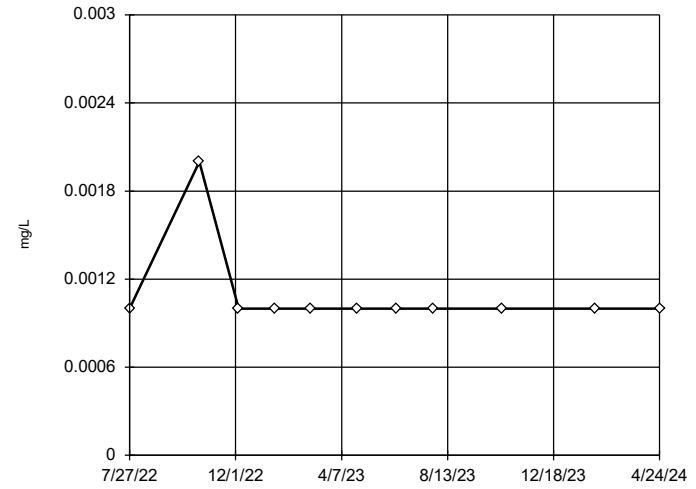
### Tukey's Outlier Screening MW-D4



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

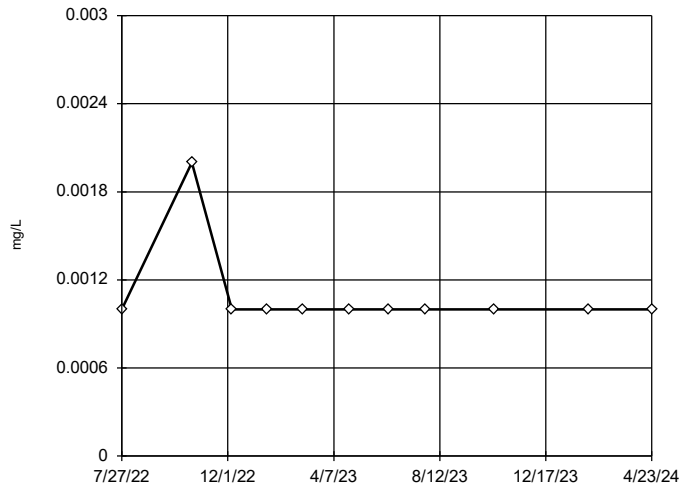
### Tukey's Outlier Screening MW-D5



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

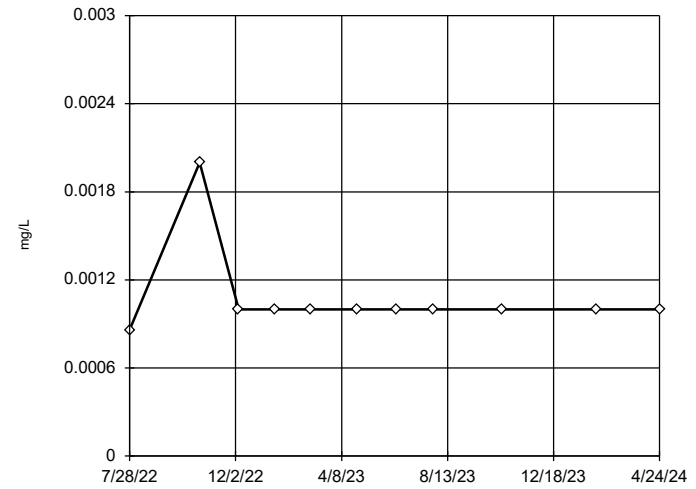
### Tukey's Outlier Screening MW-D6



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

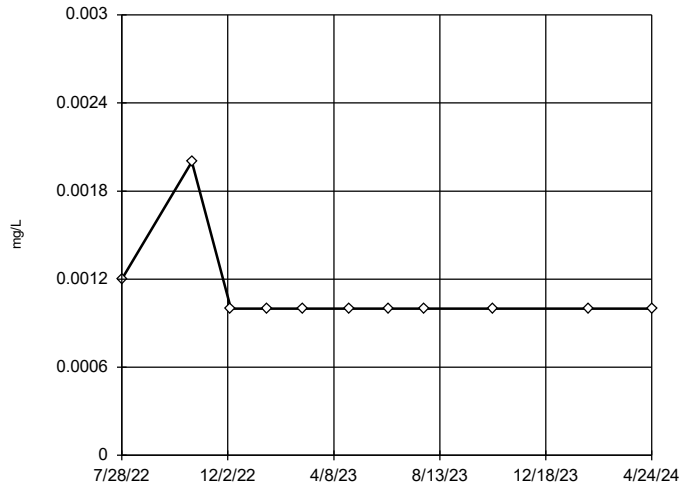
### Tukey's Outlier Screening MW-D7



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

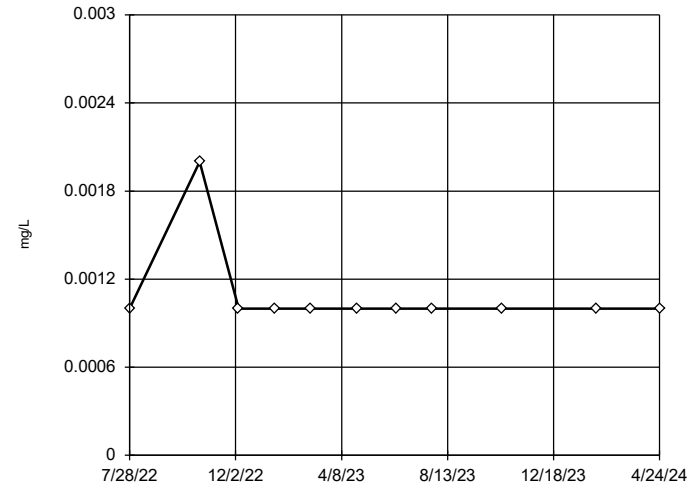
### Tukey's Outlier Screening MW-D8



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

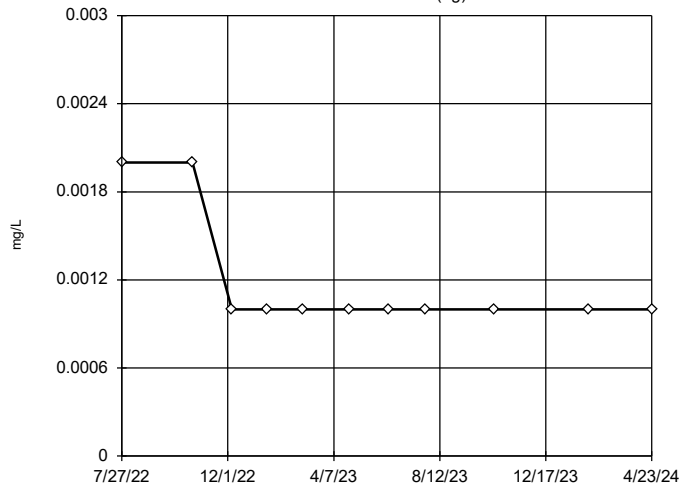
### Tukey's Outlier Screening MW-D9



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

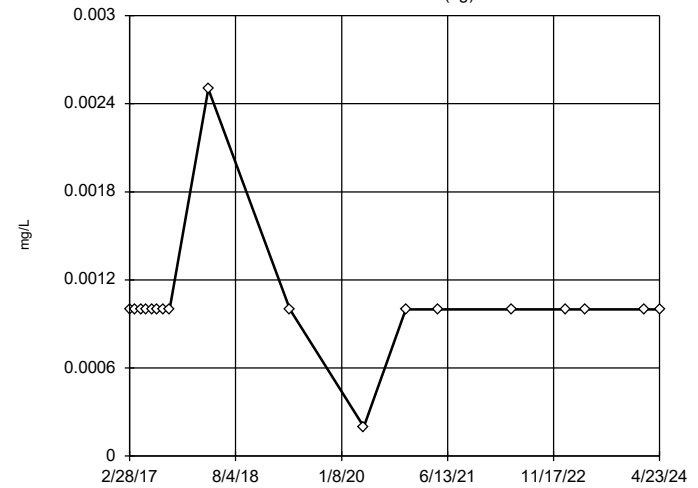
### Tukey's Outlier Screening MW-U2 (bg)



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

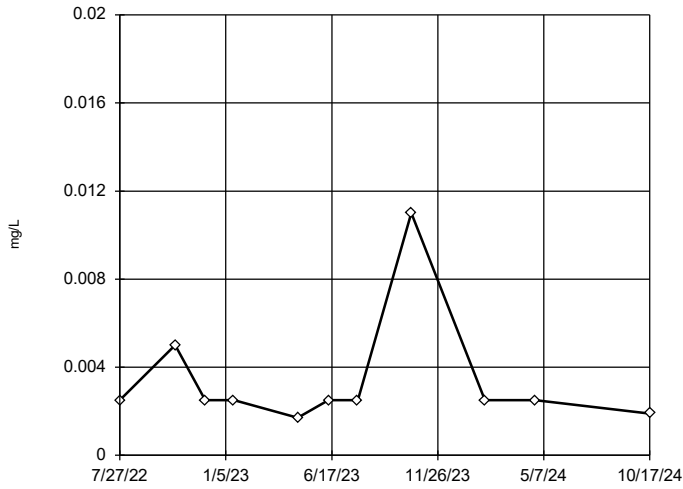
### Tukey's Outlier Screening MW-U1 (bg)



n = 18  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

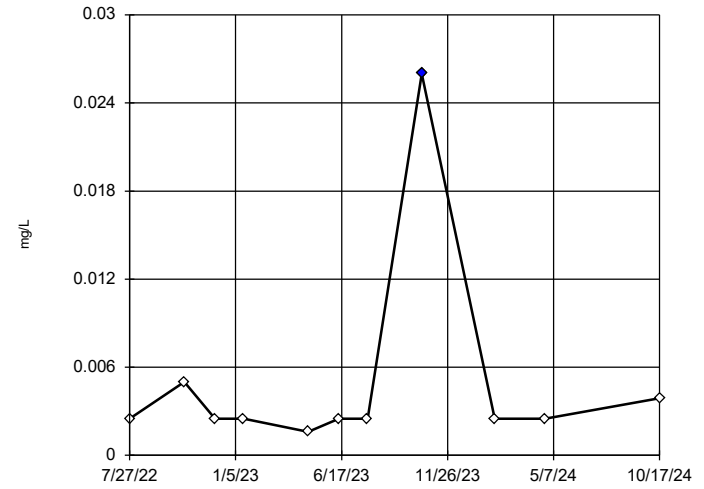
Tukey's Outlier Screening  
MW-D4



n = 11  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

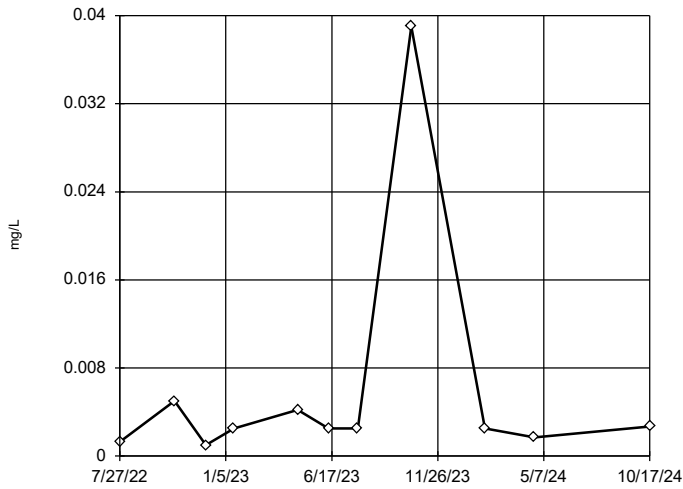
Tukey's Outlier Screening  
MW-D5



n = 11  
Outlier is drawn as solid. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.01481, low cutoff = 0.0006585, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

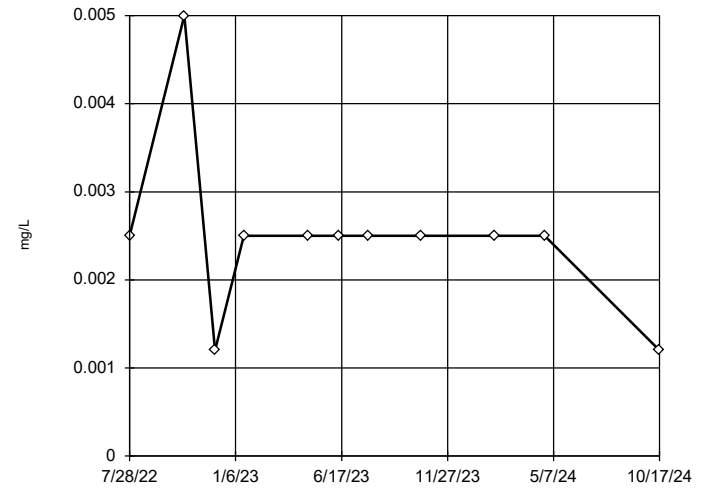
Tukey's Outlier Screening  
MW-D6



n = 11  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.06334, low cutoff = 0.0001127, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

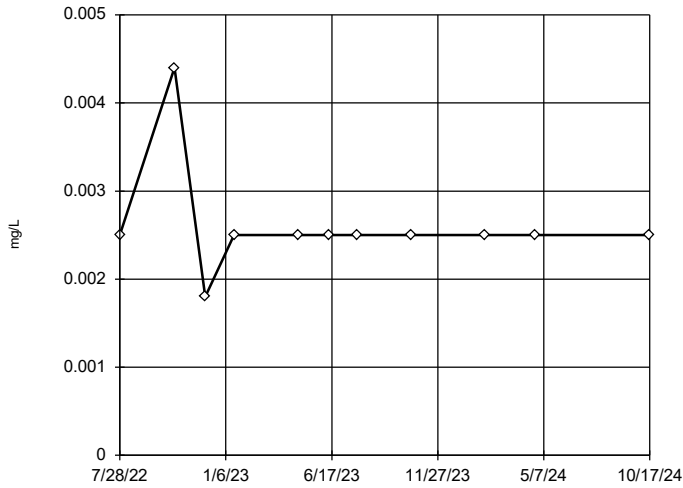
Tukey's Outlier Screening  
MW-D7



n = 11  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

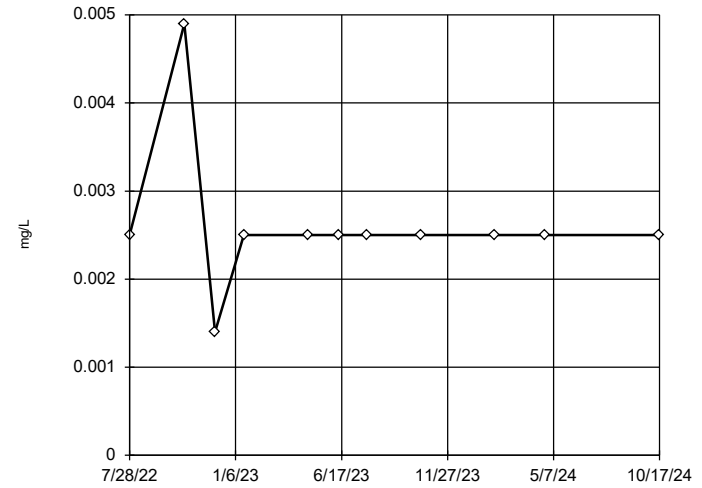
Tukey's Outlier Screening  
MW-D8



n = 11  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

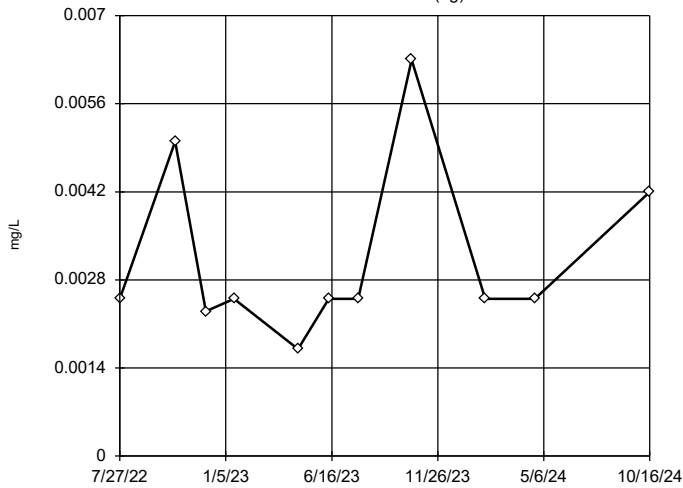
Tukey's Outlier Screening  
MW-D9



n = 11  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

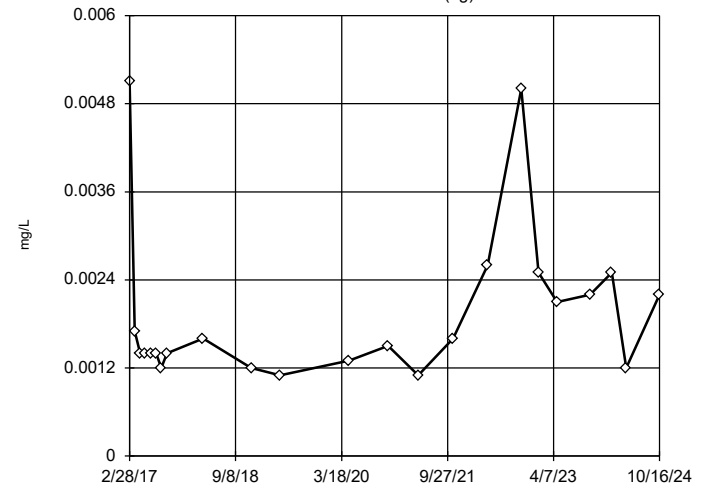
Tukey's Outlier Screening  
MW-U2 (bg)



n = 11  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.01991, low cutoff = 0.0005272, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

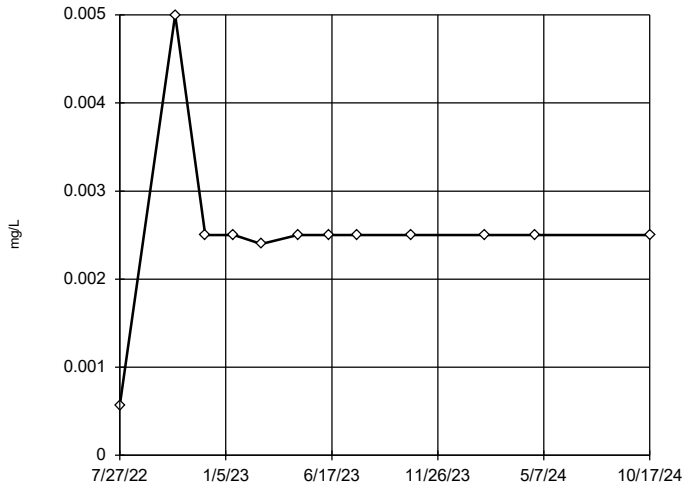
Tukey's Outlier Screening  
MW-U1 (bg)



n = 23  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.01066, low cutoff = 0.0002682, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

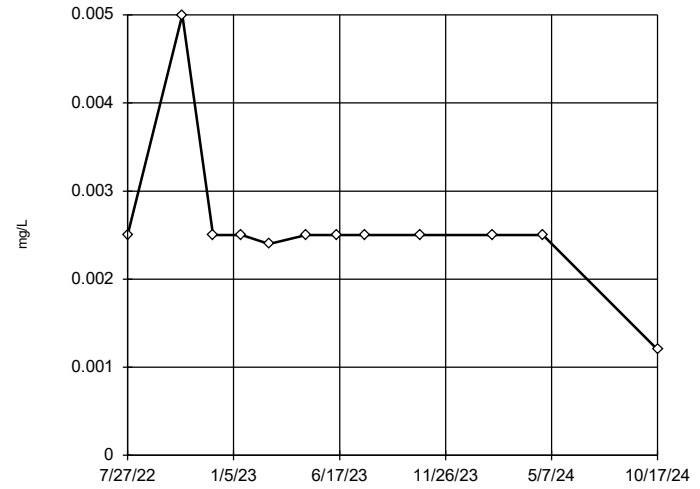
### Tukey's Outlier Screening MW-D4



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

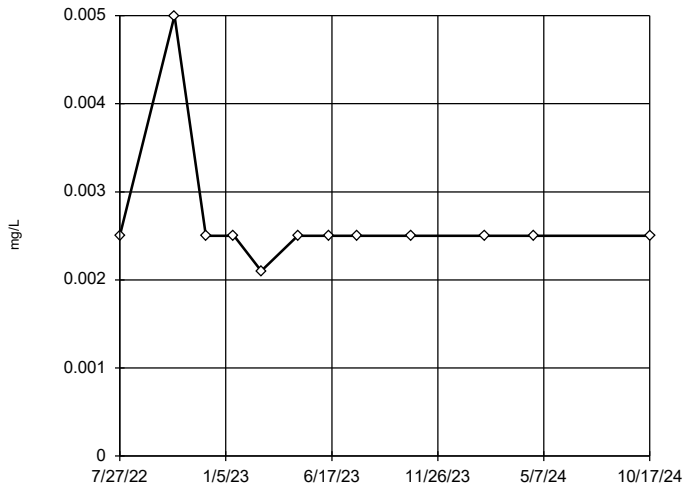
### Tukey's Outlier Screening MW-D5



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

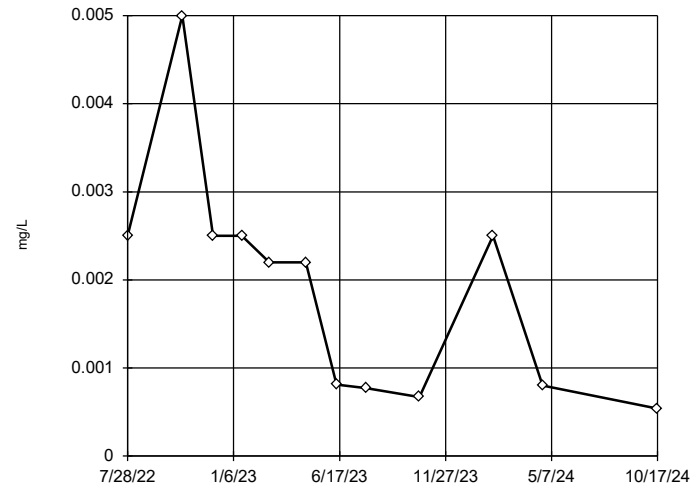
### Tukey's Outlier Screening MW-D6



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

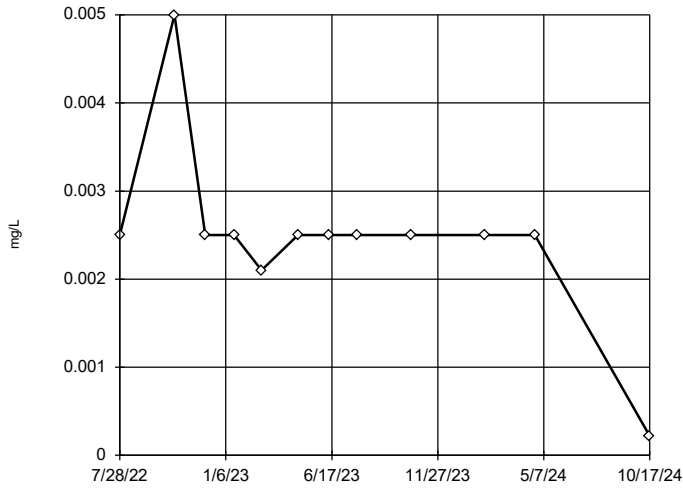
### Tukey's Outlier Screening MW-D7



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube root transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.01885,  
 low cutoff = -0.00005568,  
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

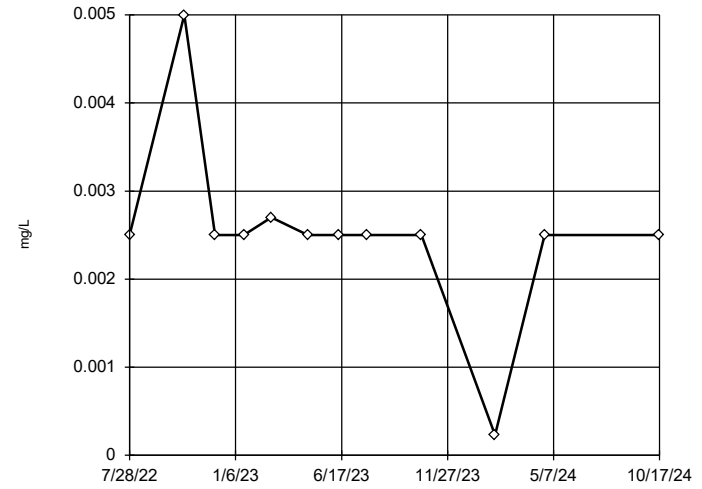
Tukey's Outlier Screening  
MW-D8



n = 12  
No outliers found. Tukey's method selected by user.  
Ladder of Powers transformations did not improve normality; analysis run on raw data.  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

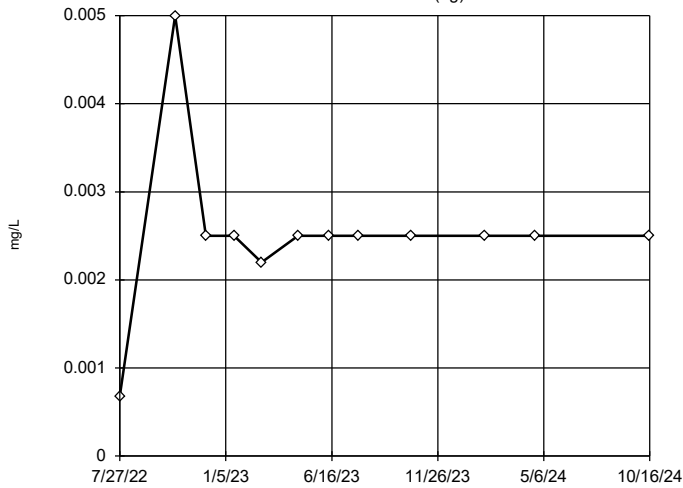
Tukey's Outlier Screening  
MW-D9



n = 12  
No outliers found. Tukey's method selected by user.  
Ladder of Powers transformations did not improve normality; analysis run on raw data.  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

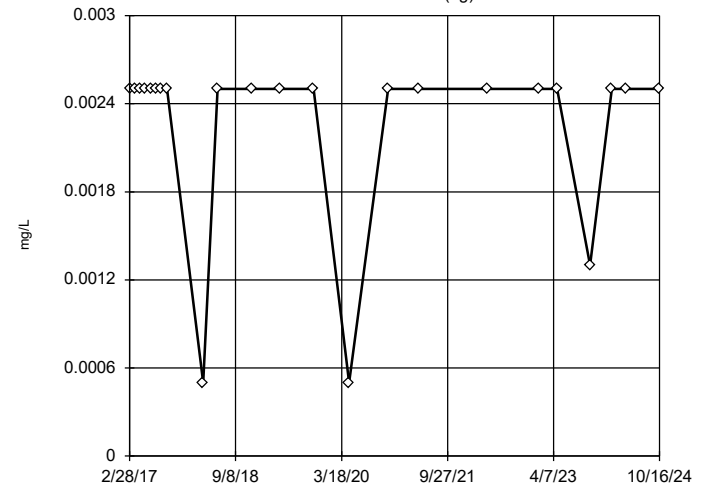
Tukey's Outlier Screening  
MW-U2 (bg)



n = 12  
No outliers found. Tukey's method selected by user.  
Data were square root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

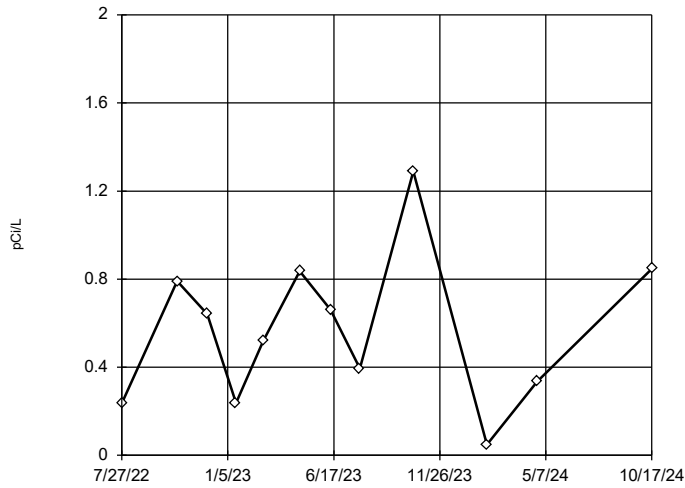
Tukey's Outlier Screening  
MW-U1 (bg)



n = 23  
No outliers found. Tukey's method selected by user.  
Data were square transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

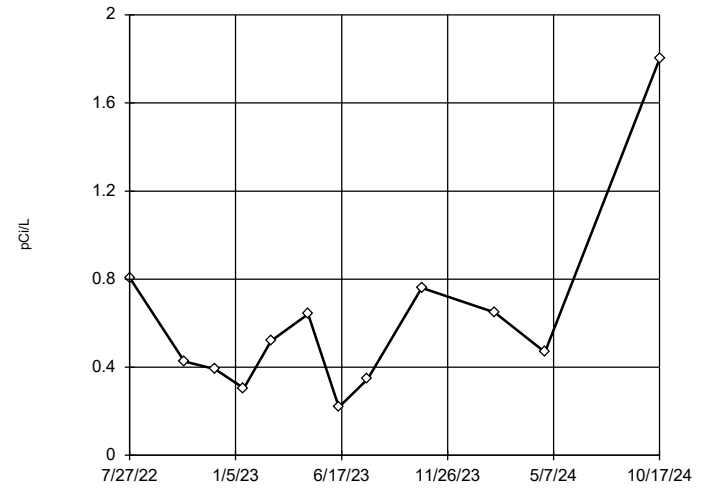
### Tukey's Outlier Screening MW-D4



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 4.036, low cutoff = -0.3299, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

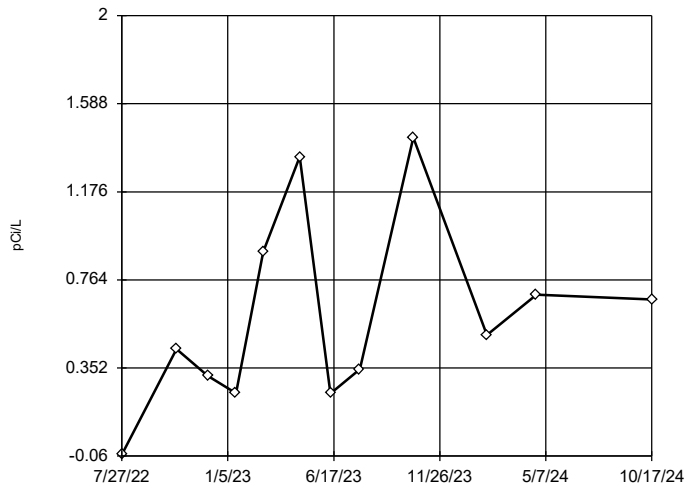
### Tukey's Outlier Screening MW-D5



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 4.883, low cutoff = 0.053, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

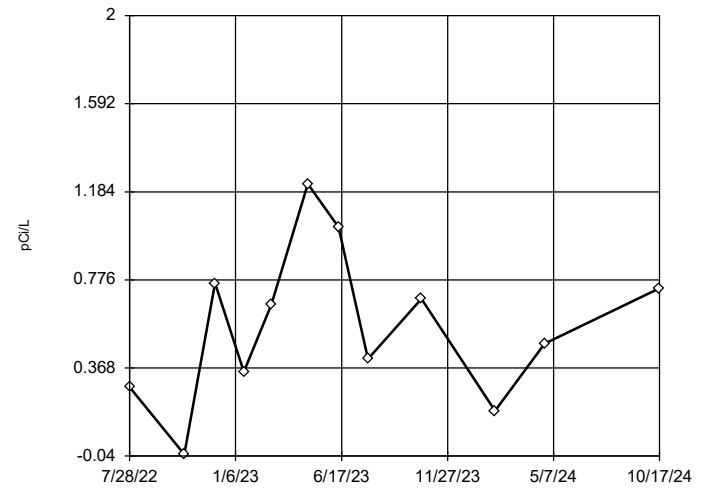
### Tukey's Outlier Screening MW-D6



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 2.359, low cutoff = -1.289, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

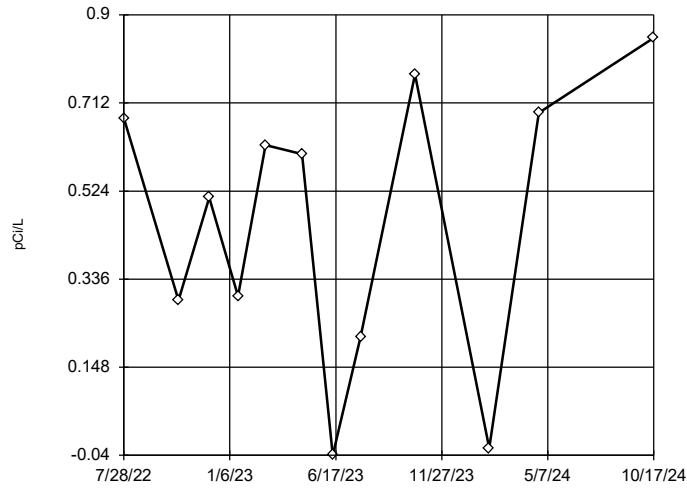
### Tukey's Outlier Screening MW-D7



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 2.052, low cutoff = -0.989, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

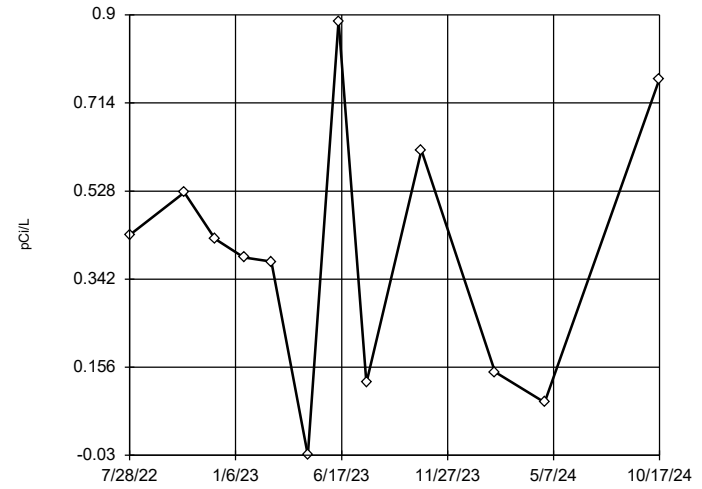
### Tukey's Outlier Screening MW-D8



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 1.986, low cutoff = -1.049, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

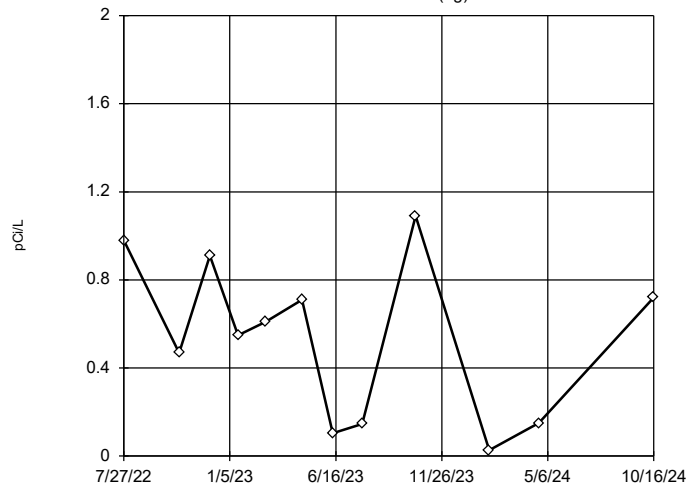
### Tukey's Outlier Screening MW-D9



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 1.875, low cutoff = -1.171, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

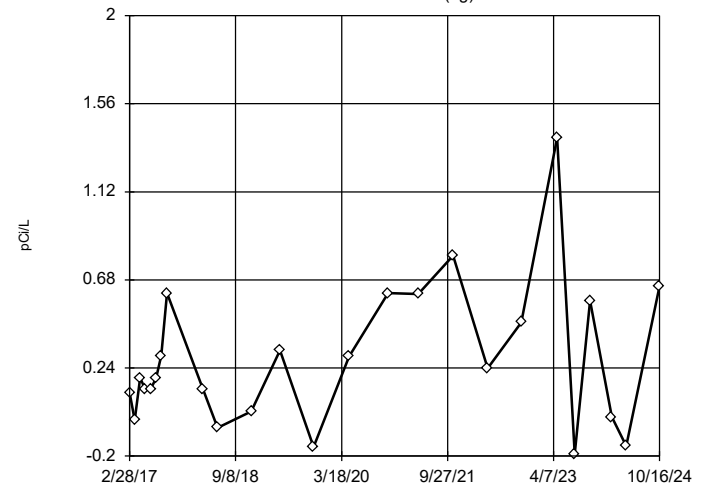
### Tukey's Outlier Screening MW-U2 (bg)



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 2.816, low cutoff = -1.853, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening MW-U1 (bg)

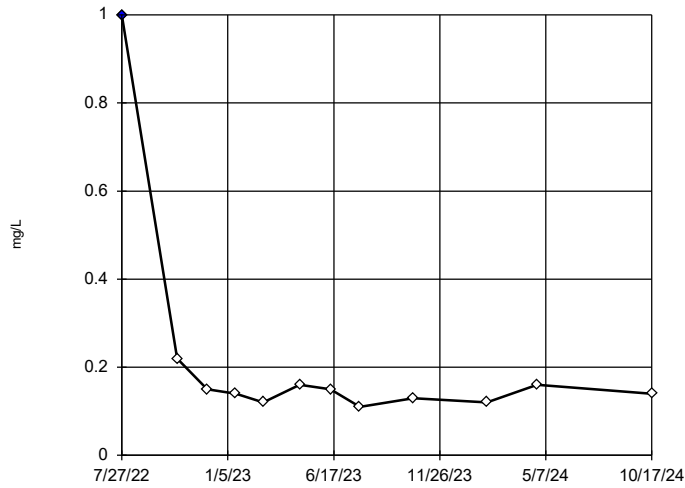


n = 25  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 High cutoff = 2.342, low cutoff = -1.741, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_Oct  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



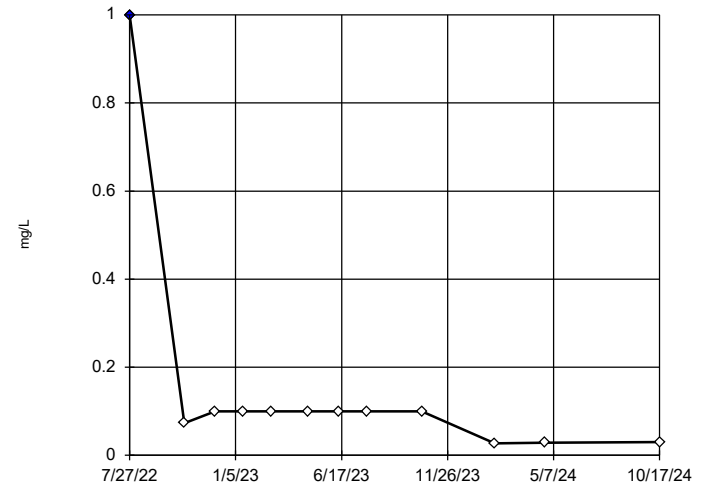
### Tukey's Outlier Screening MW-D4



n = 12  
 Outlier is drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.3364,  
 low cutoff = 0.05941,  
 based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

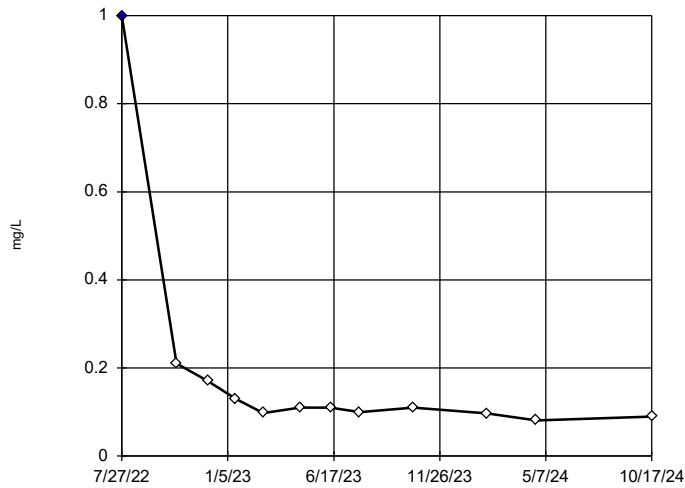
### Tukey's Outlier Screening MW-D5



n = 12  
 Outlier is drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.9757,  
 low cutoff = 0.004796,  
 based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

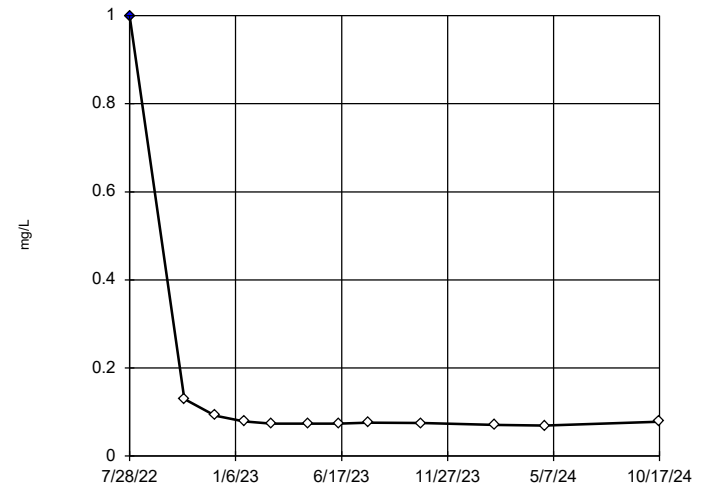
### Tukey's Outlier Screening MW-D6



n = 12  
 Outlier is drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.527, low cutoff = 0.0275, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

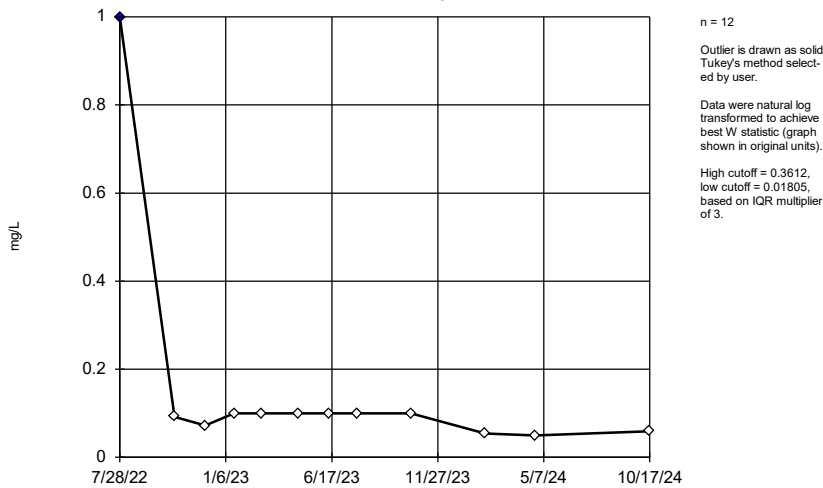
### Tukey's Outlier Screening MW-D7



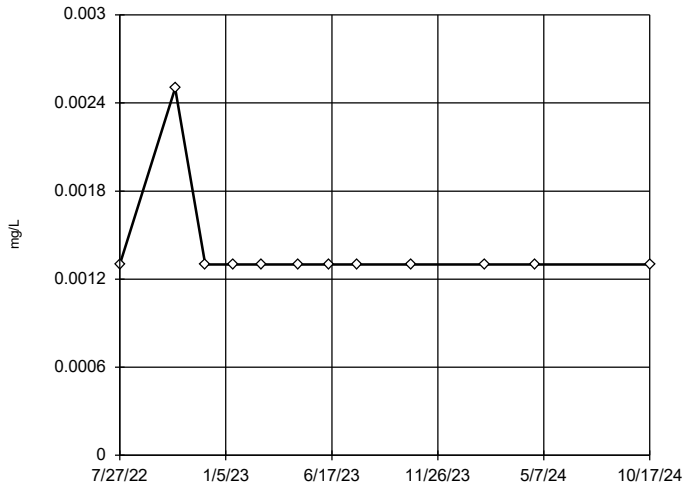
n = 12  
 Outlier is drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.1304,  
 low cutoff = 0.0484, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 12/31/2024 10:36 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Tukey's Outlier Screening  
MW-D8



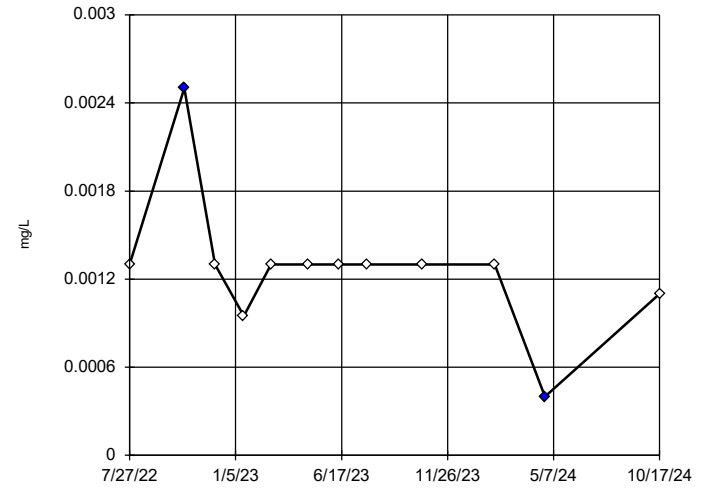
### Tukey's Outlier Screening MW-D4



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

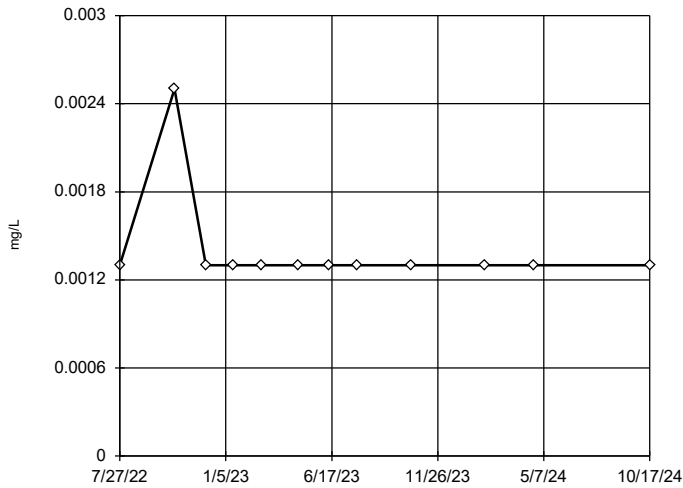
### Tukey's Outlier Screening MW-D5



n = 12  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.001631,  
 low cutoff = 0.0009167,  
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

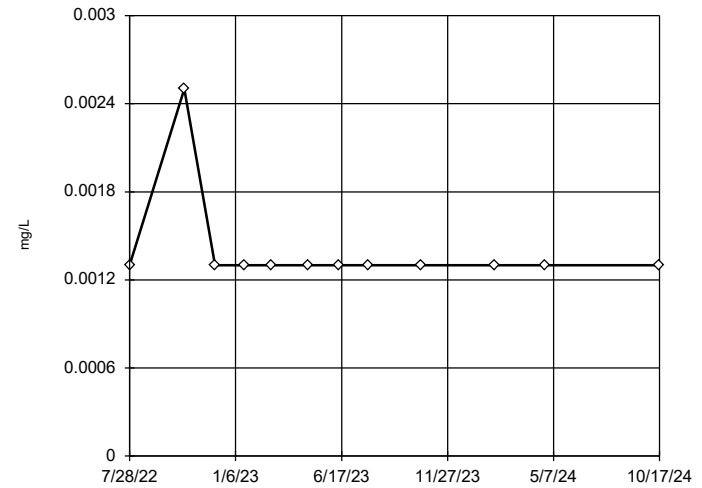
### Tukey's Outlier Screening MW-D6



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

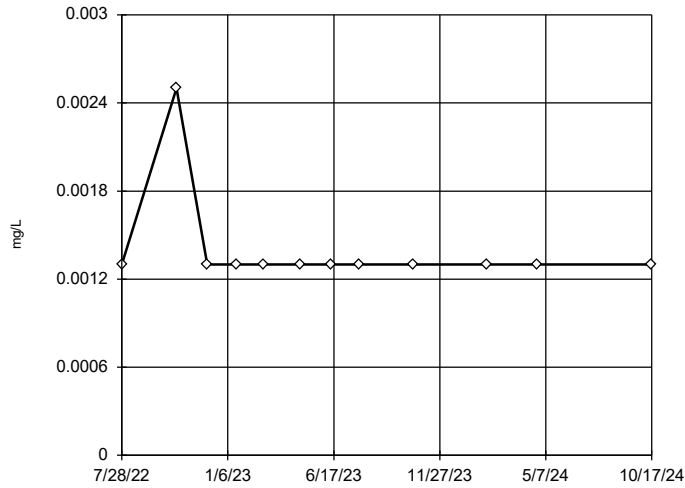
### Tukey's Outlier Screening MW-D7



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

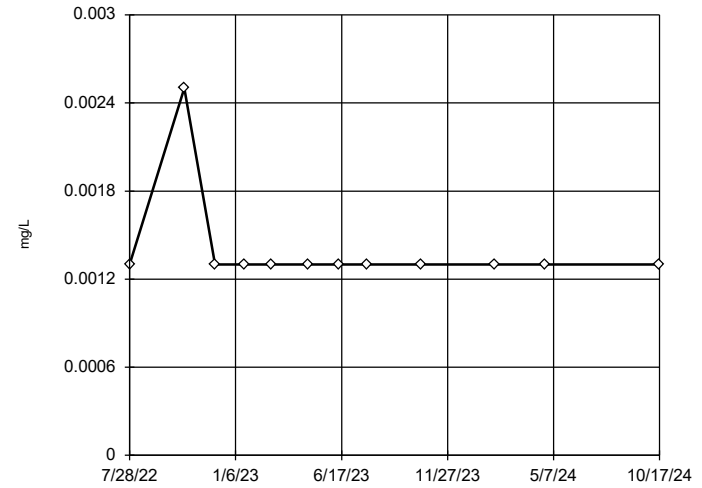
### Tukey's Outlier Screening MW-D8



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

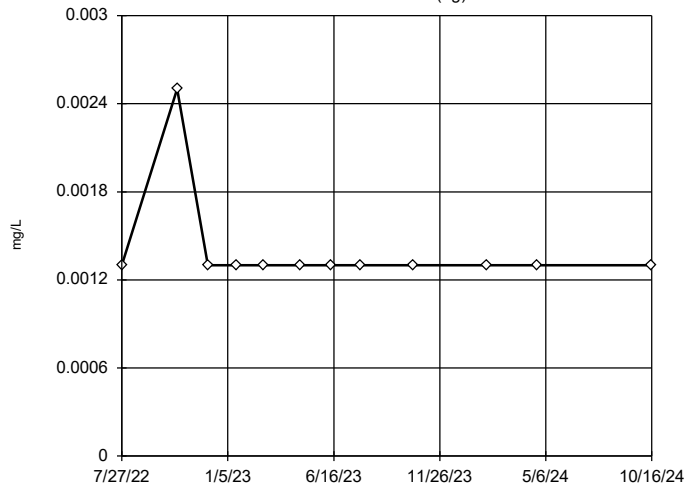
### Tukey's Outlier Screening MW-D9



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

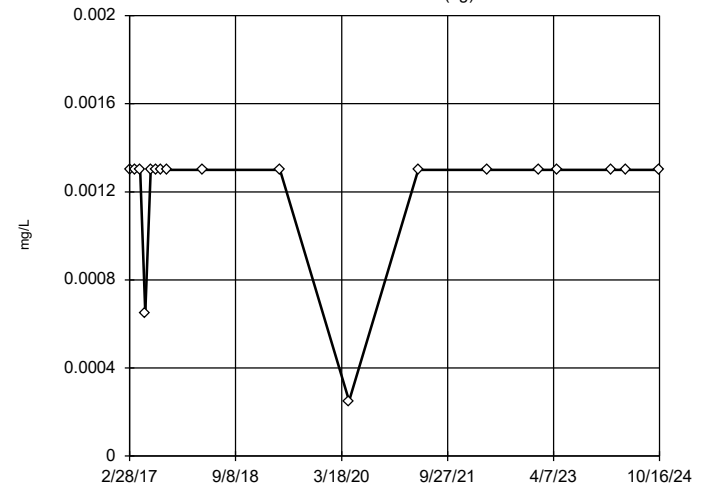
### Tukey's Outlier Screening MW-U2 (bg)



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

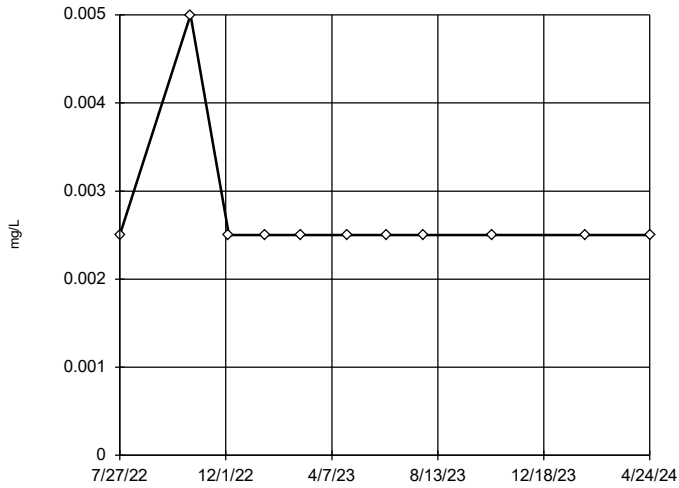
### Tukey's Outlier Screening MW-U1 (bg)



n = 18  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

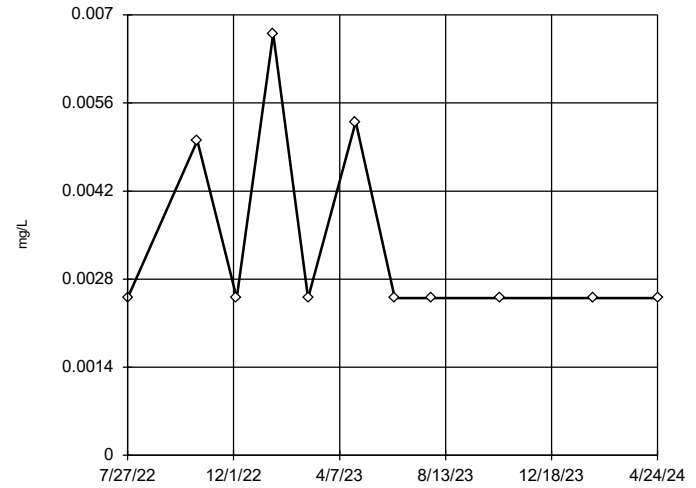
### Tukey's Outlier Screening MW-D4



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

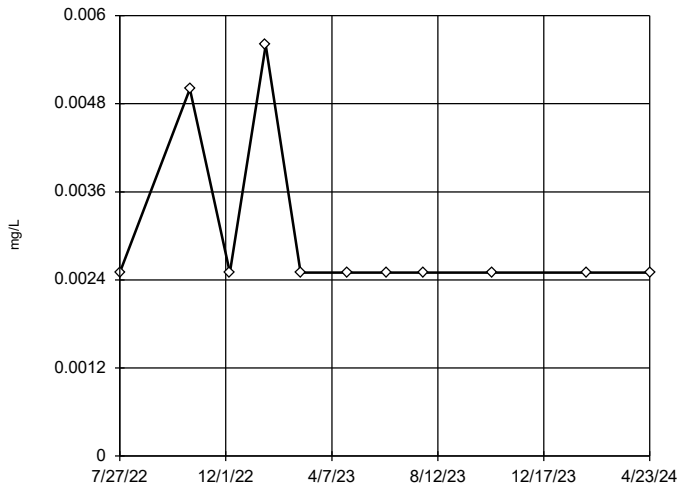
### Tukey's Outlier Screening MW-D5



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

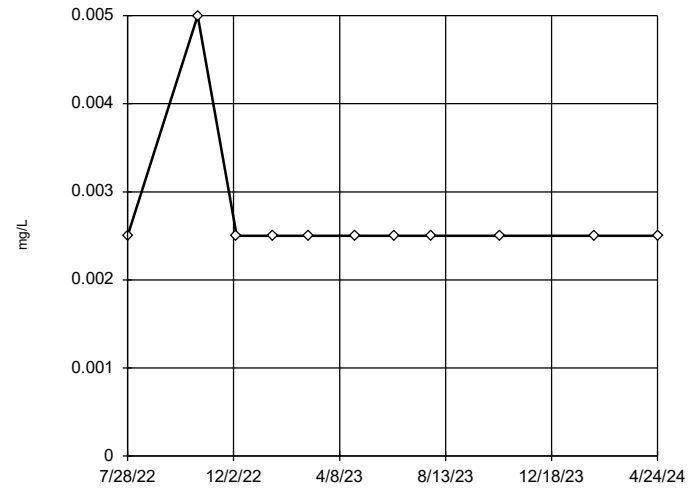
### Tukey's Outlier Screening MW-D6



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

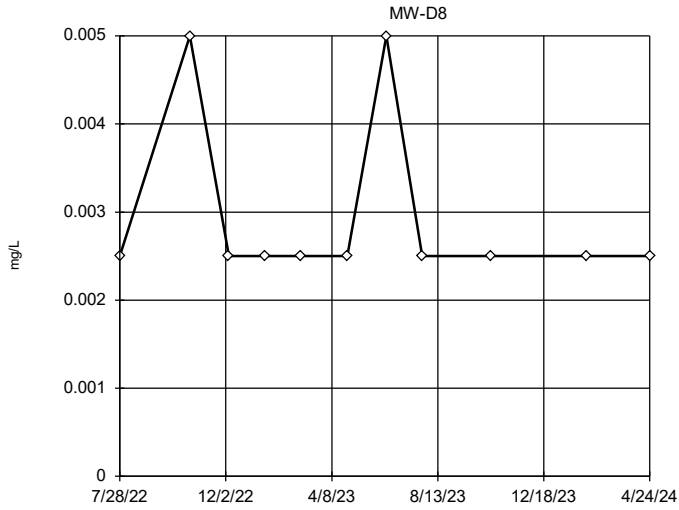
### Tukey's Outlier Screening MW-D7



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

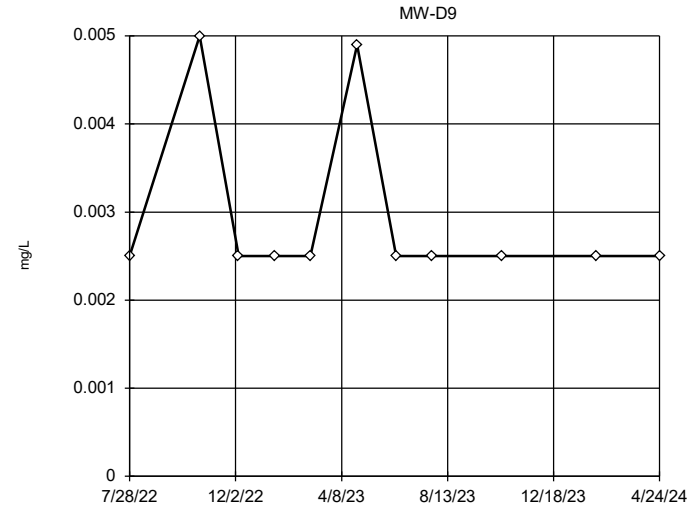
### Tukey's Outlier Screening



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

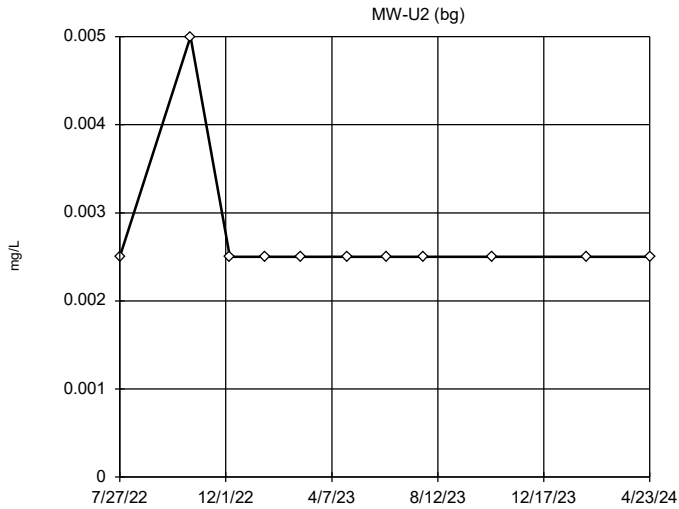
### Tukey's Outlier Screening



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x^6 transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

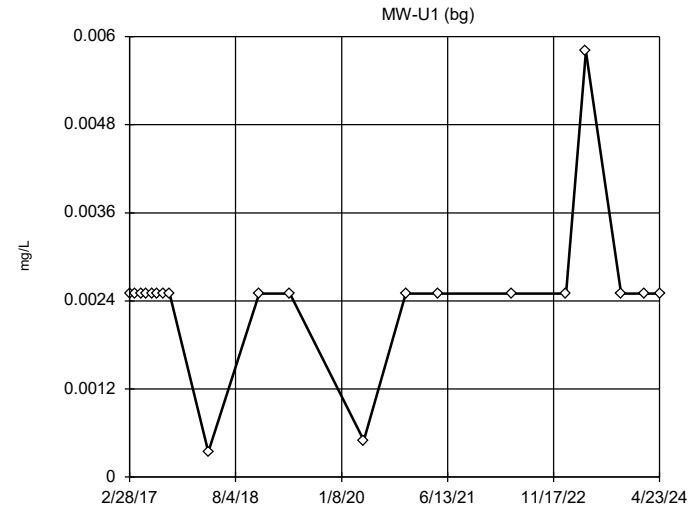
### Tukey's Outlier Screening



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

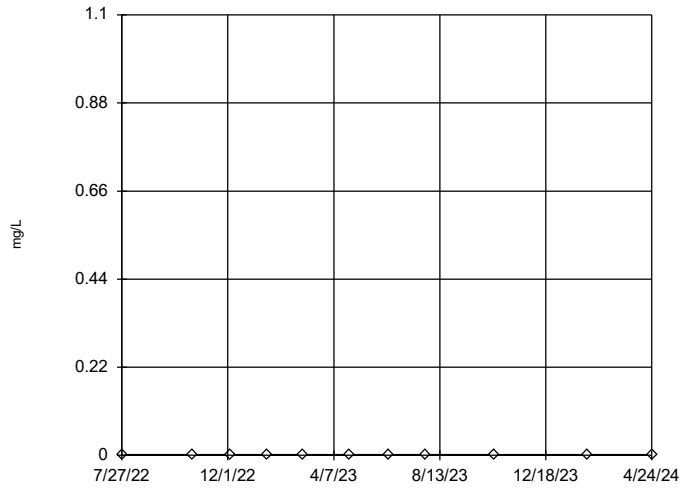
### Tukey's Outlier Screening



n = 20  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

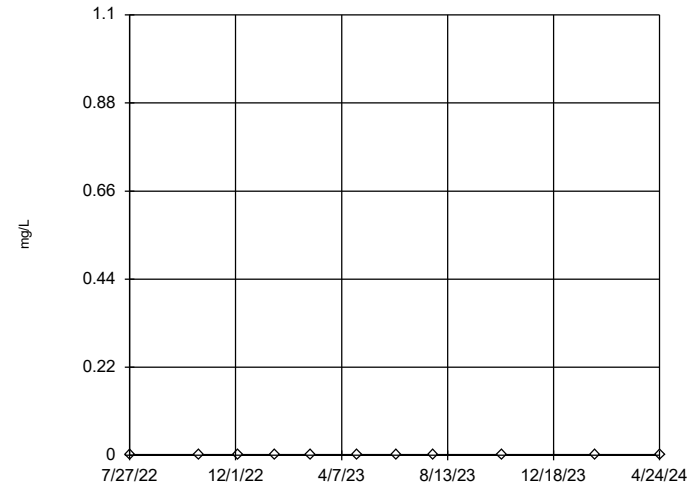
### Tukey's Outlier Screening MW-D4



n = 11  
No outliers found.  
Tukey's method selected by user.  
Data were cube root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

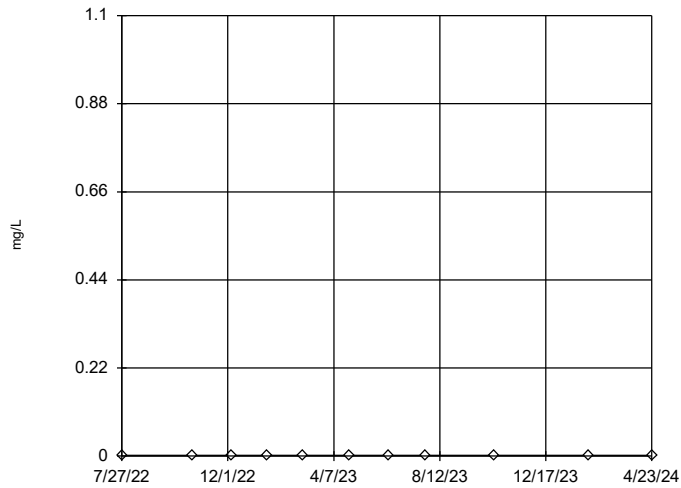
### Tukey's Outlier Screening MW-D5



n = 11  
No outliers found.  
Tukey's method selected by user.  
Data were cube root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

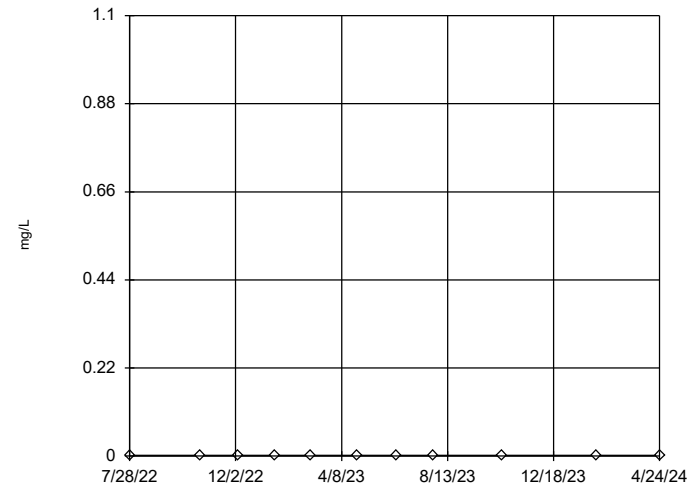
### Tukey's Outlier Screening MW-D6



n = 11  
No outliers found.  
Tukey's method selected by user.  
Data were cube root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

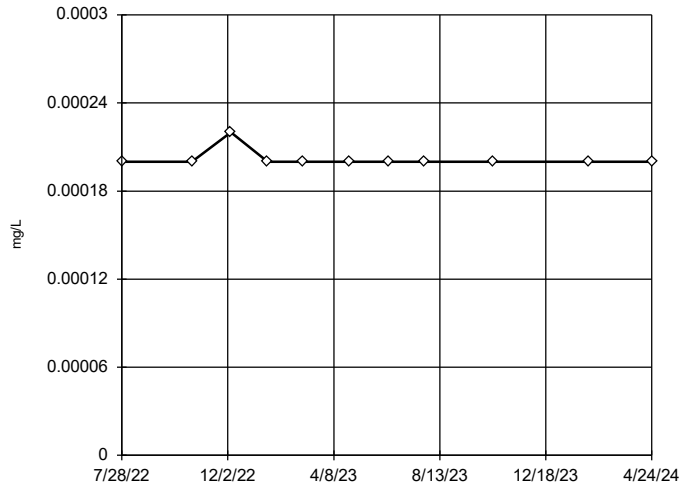
### Tukey's Outlier Screening MW-D7



n = 11  
No outliers found.  
Tukey's method selected by user.  
Data were cube root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

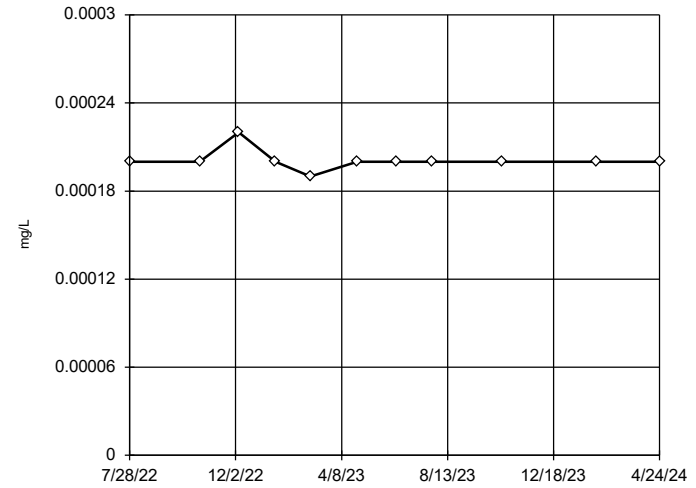
### Tukey's Outlier Screening MW-D8



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

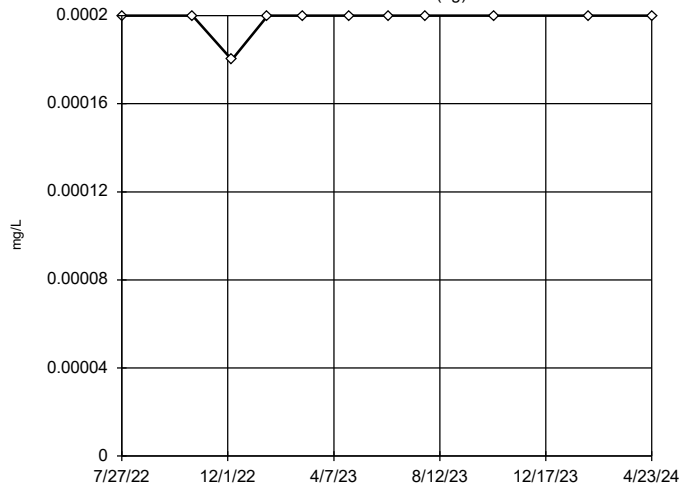
### Tukey's Outlier Screening MW-D9



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

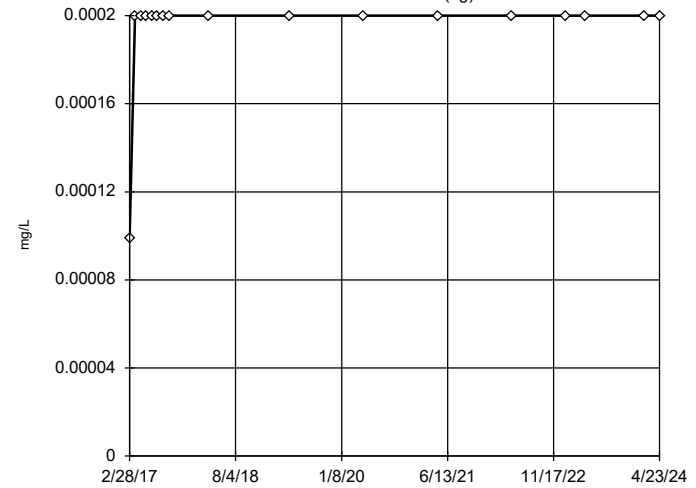
### Tukey's Outlier Screening MW-U2 (bg)



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening MW-U1 (bg)

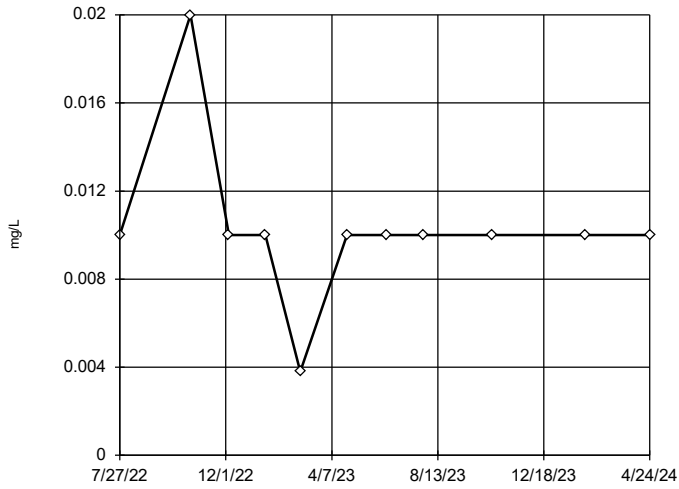


n = 17  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



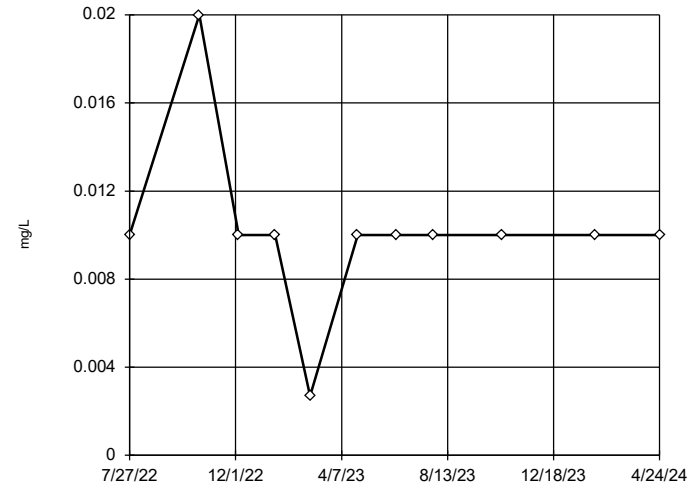
### Tukey's Outlier Screening MW-D4



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were cube root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

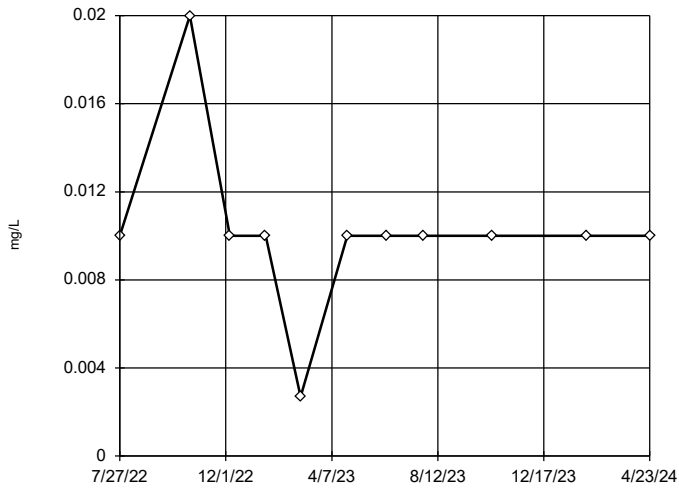
### Tukey's Outlier Screening MW-D5



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

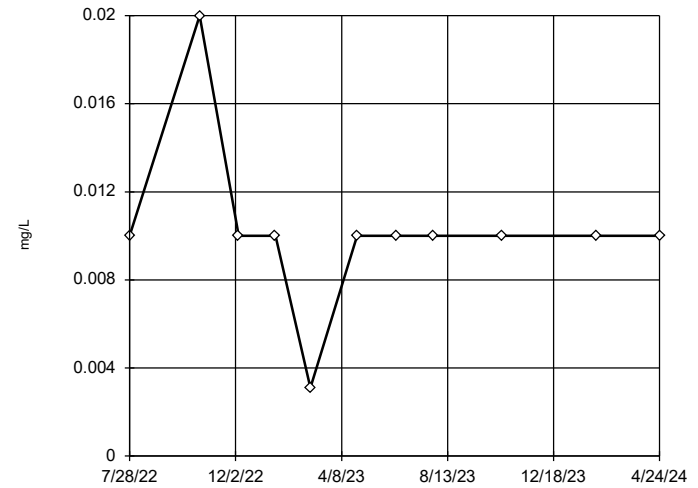
### Tukey's Outlier Screening MW-D6



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

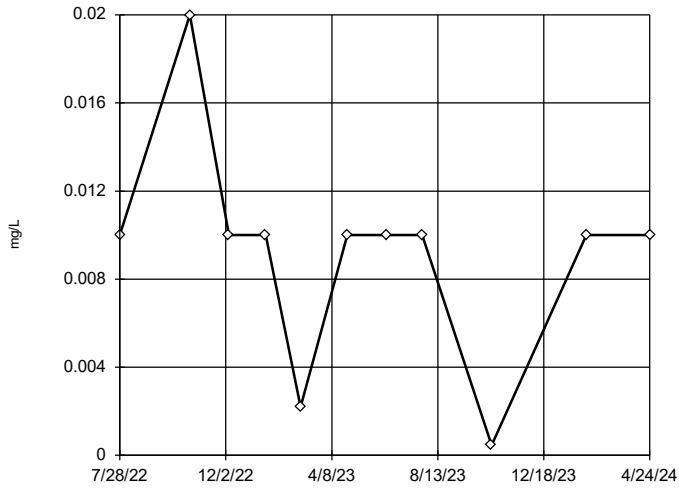
### Tukey's Outlier Screening MW-D7



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were square root transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

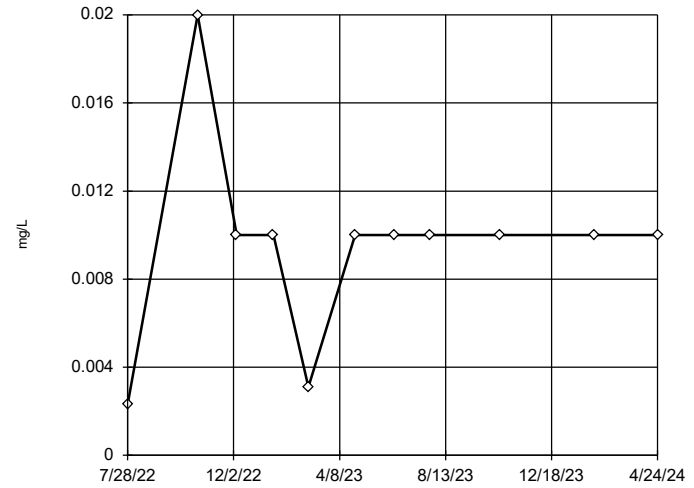
Tukey's Outlier Screening  
MW-D8



n = 11  
No outliers found. Tukey's method selected by user.  
Ladder of Powers transformations did not improve normality; analysis run on raw data.  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

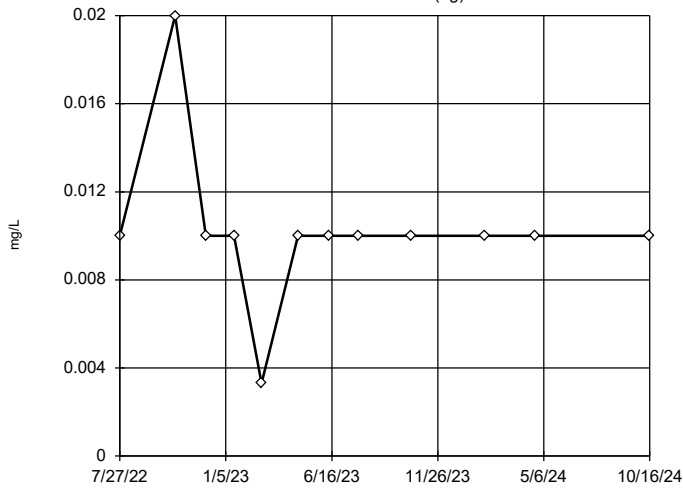
Tukey's Outlier Screening  
MW-D9



n = 11  
No outliers found. Tukey's method selected by user.  
Data were square root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

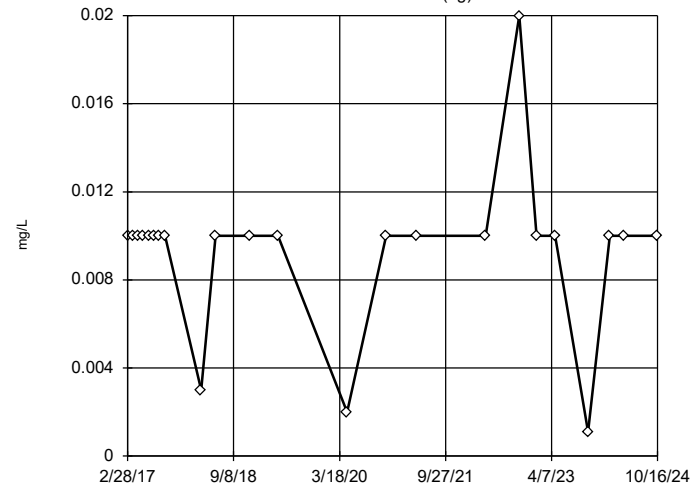
Tukey's Outlier Screening  
MW-U2 (bg)



n = 12  
No outliers found. Tukey's method selected by user.  
Data were square root transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

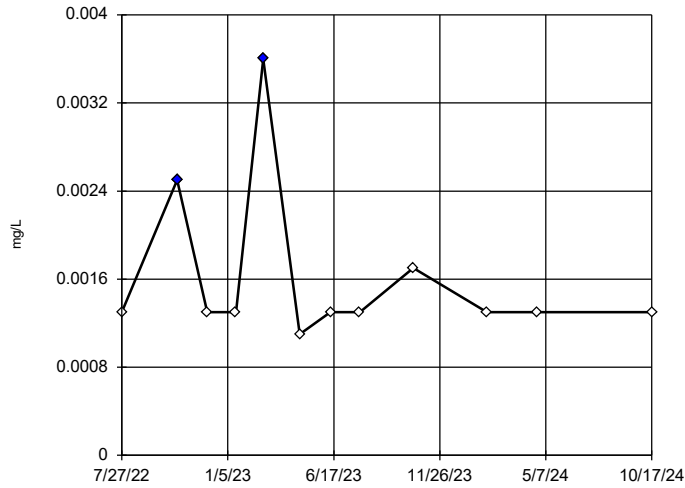
Tukey's Outlier Screening  
MW-U1 (bg)



n = 23  
No outliers found. Tukey's method selected by user.  
Ladder of Powers transformations did not improve normality; analysis run on raw data.  
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

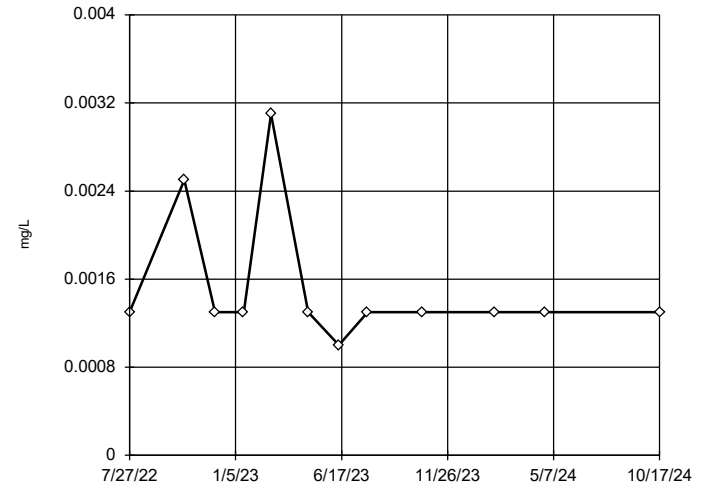
### Tukey's Outlier Screening MW-D4



n = 12  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.002223, low cutoff = 0.0008693, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

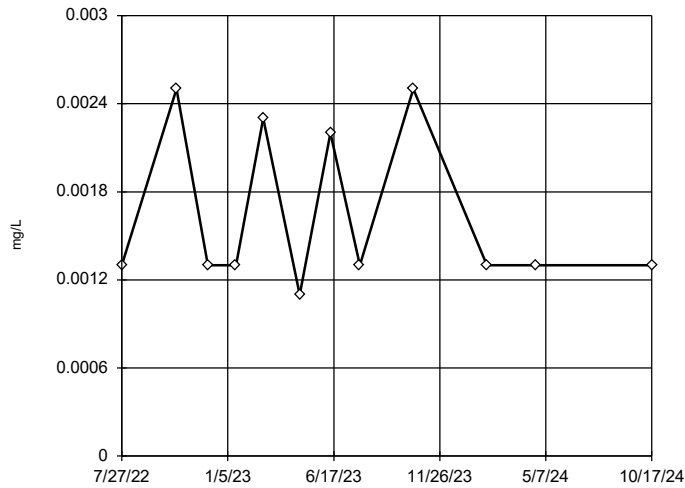
### Tukey's Outlier Screening MW-D5



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

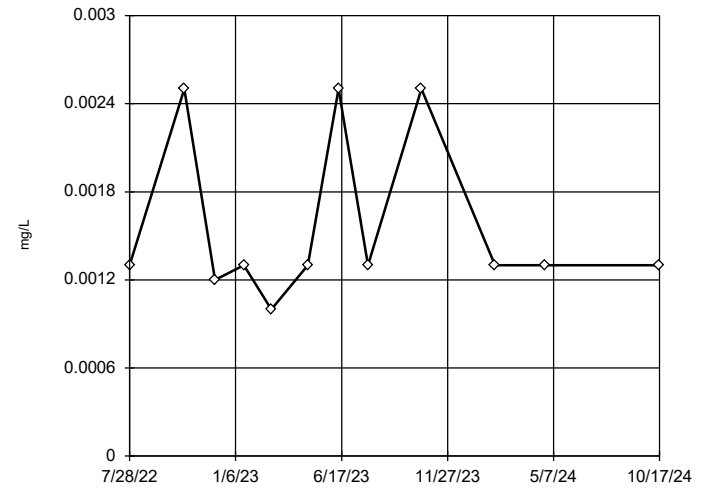
### Tukey's Outlier Screening MW-D6



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.01165, low cutoff = 0.0002509, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

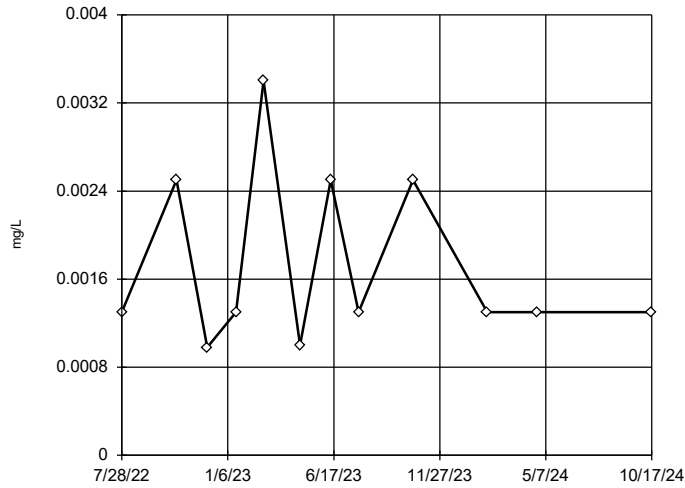
### Tukey's Outlier Screening MW-D7



n = 12  
 No outliers found.  
 Tukey's method selected by user.  
 Data were natural log transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.004808, low cutoff = 0.0004875, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

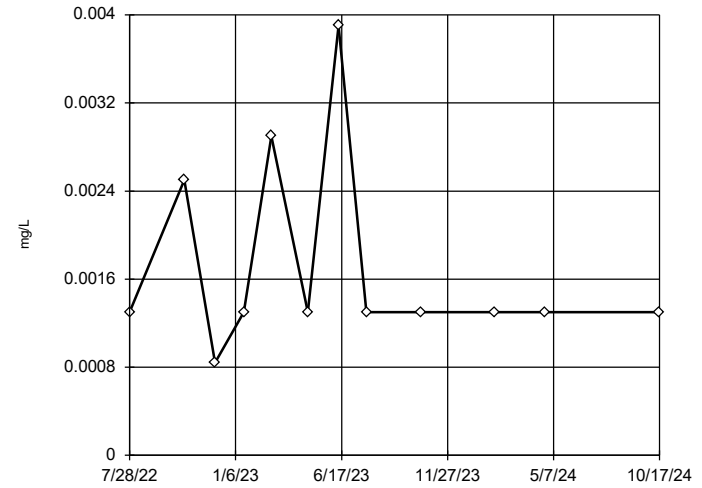
Tukey's Outlier Screening  
MW-D8



n = 12  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

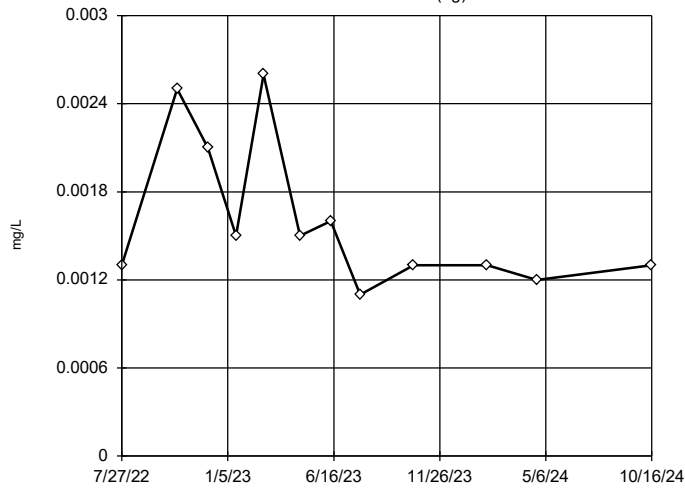
Tukey's Outlier Screening  
MW-D9



n = 12  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.004808, low cutoff = 0.0004875, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

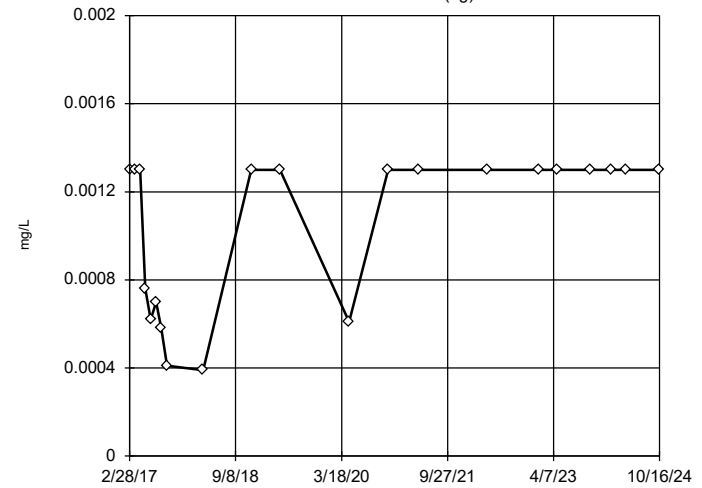
Tukey's Outlier Screening  
MW-U2 (bg)



n = 12  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.005139, low cutoff = 0.0004637, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

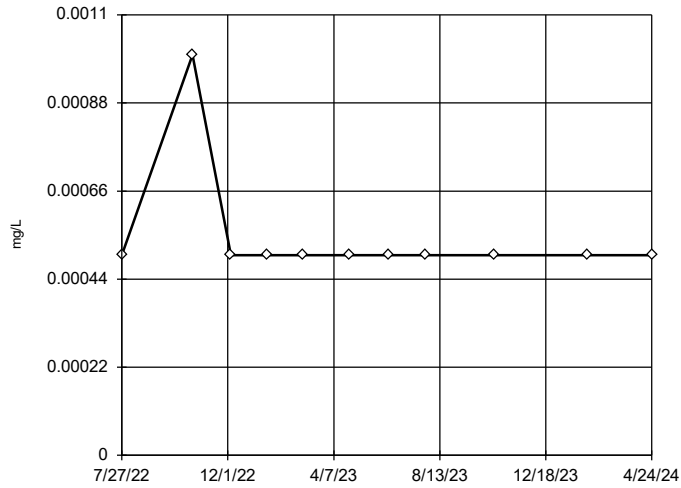
Tukey's Outlier Screening  
MW-U1 (bg)



n = 21  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 0.009989, low cutoff = 0.00008573, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

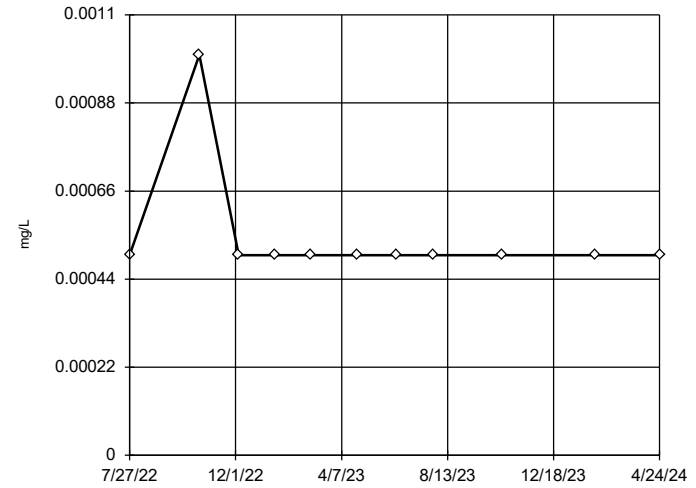
### Tukey's Outlier Screening MW-D4



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:37 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

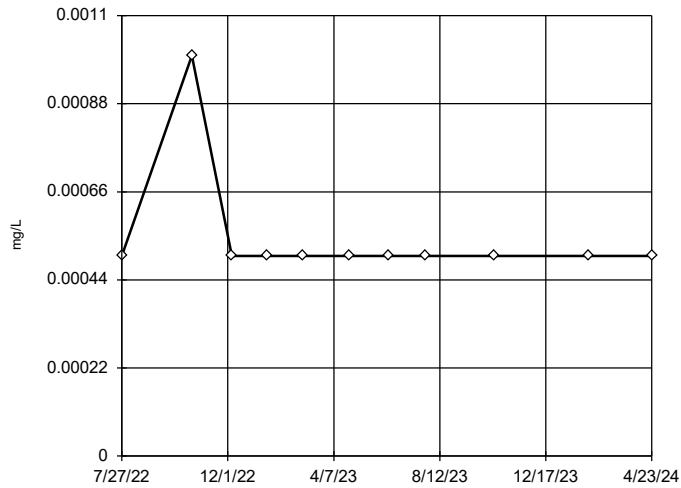
### Tukey's Outlier Screening MW-D5



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

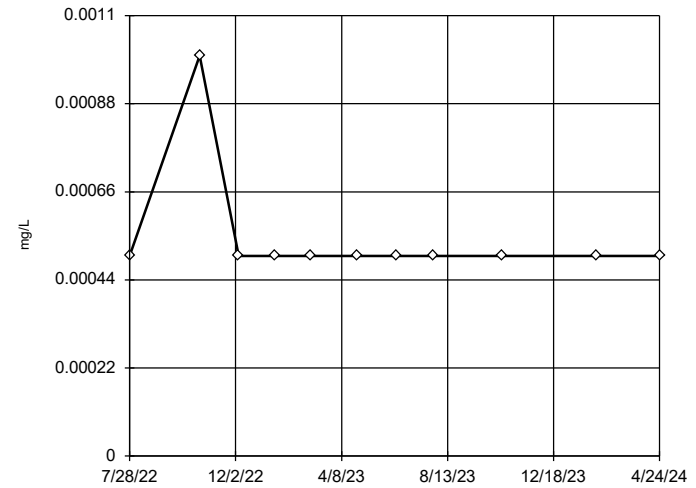
### Tukey's Outlier Screening MW-D6



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

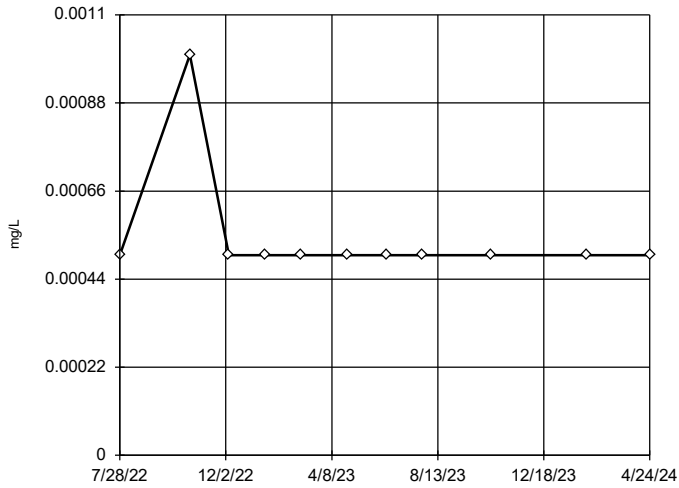
### Tukey's Outlier Screening MW-D7



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

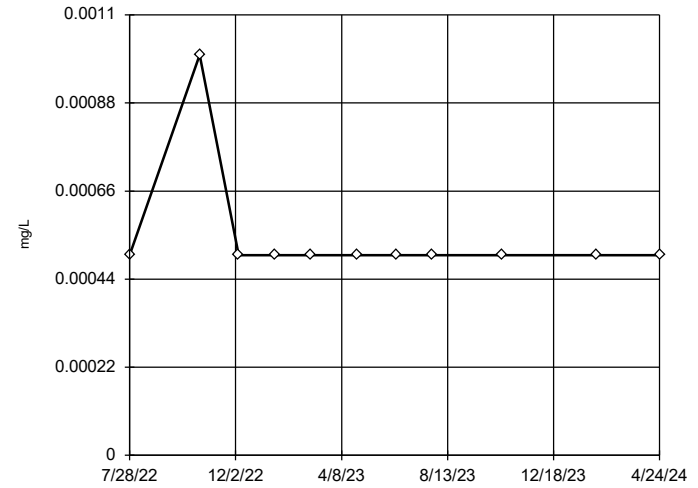
### Tukey's Outlier Screening MW-D8



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

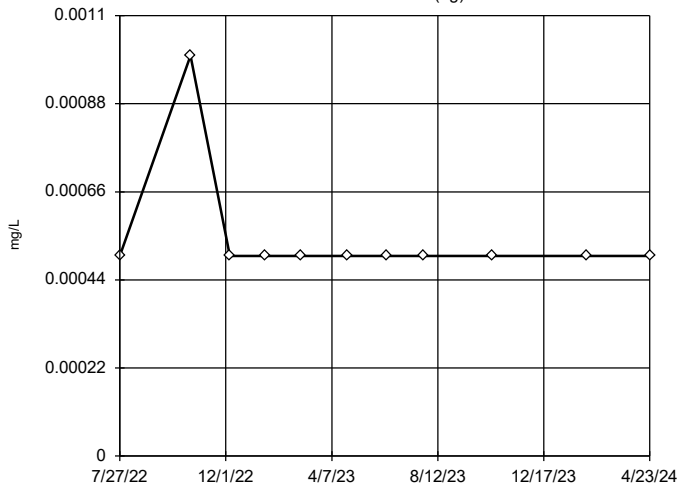
### Tukey's Outlier Screening MW-D9



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

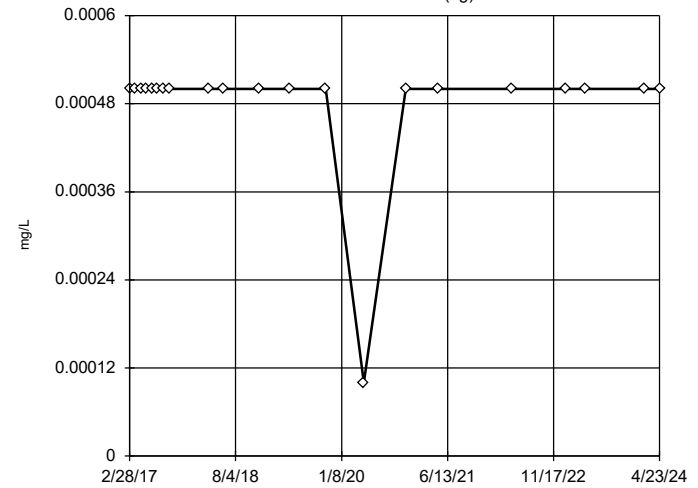
### Tukey's Outlier Screening MW-U2 (bg)



n = 11  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Tukey's Outlier Screening MW-U1 (bg)



n = 21  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 12/31/2024 10:38 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

# Tolerance Limit

CCPC Plant Crisp Ash Pond Site    Client: Geosyntec    Data: Sanitas Input    Printed 12/31/2024, 10:43 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-D4	0.0025	10/17/2024	<0.0025	No	30	100	n/a	0.03947	NP Inter(NDs)
Antimony (mg/L)	MW-D5	0.0025	10/17/2024	<0.0025	No	30	100	n/a	0.03947	NP Inter(NDs)
Antimony (mg/L)	MW-D6	0.0025	10/17/2024	<0.0025	No	30	100	n/a	0.03947	NP Inter(NDs)
Antimony (mg/L)	MW-D7	0.0025	10/17/2024	<0.0025	No	30	100	n/a	0.03947	NP Inter(NDs)
Antimony (mg/L)	MW-D8	0.0025	10/17/2024	<0.0025	No	30	100	n/a	0.03947	NP Inter(NDs)
Antimony (mg/L)	MW-D9	0.0025	10/17/2024	<0.0025	No	30	100	n/a	0.03947	NP Inter(NDs)
Arsenic (mg/L)	MW-D4	0.0025	4/24/2024	<0.0013	No	36	88.89	n/a	0.02821	NP Inter(NDs)
Arsenic (mg/L)	MW-D5	0.0025	4/24/2024	<0.0013	No	36	88.89	n/a	0.02821	NP Inter(NDs)
Arsenic (mg/L)	MW-D6	0.0025	4/23/2024	<0.0013	No	36	88.89	n/a	0.02821	NP Inter(NDs)
Arsenic (mg/L)	MW-D7	0.0025	4/24/2024	<0.0013	No	36	88.89	n/a	0.02821	NP Inter(NDs)
Arsenic (mg/L)	MW-D8	0.0025	4/24/2024	<0.0013	No	36	88.89	n/a	0.02821	NP Inter(NDs)
Arsenic (mg/L)	MW-D9	0.0025	4/24/2024	<0.0013	No	36	88.89	n/a	0.02821	NP Inter(NDs)
Barium (mg/L)	MW-D4	0.043	10/17/2024	0.021	No	37	0	n/a	0.0267	NP Inter(normal...
<b>Barium (mg/L)</b>	<b>MW-D5</b>	<b>0.043</b>	<b>10/17/2024</b>	<b>0.053</b>	<b>Yes</b>	<b>37</b>	<b>0</b>	<b>n/a</b>	<b>0.0267</b>	<b>NP Inter(normal...</b>
Barium (mg/L)	MW-D6	0.043	10/17/2024	0.0085	No	37	0	n/a	0.0267	NP Inter(normal...
<b>Barium (mg/L)</b>	<b>MW-D7</b>	<b>0.043</b>	<b>10/17/2024</b>	<b>0.077</b>	<b>Yes</b>	<b>37</b>	<b>0</b>	<b>n/a</b>	<b>0.0267</b>	<b>NP Inter(normal...</b>
<b>Barium (mg/L)</b>	<b>MW-D8</b>	<b>0.043</b>	<b>10/17/2024</b>	<b>0.061</b>	<b>Yes</b>	<b>37</b>	<b>0</b>	<b>n/a</b>	<b>0.0267</b>	<b>NP Inter(normal...</b>
Barium (mg/L)	MW-D9	0.043	10/17/2024	0.038	No	37	0	n/a	0.0267	NP Inter(normal...
Beryllium (mg/L)	MW-D4	0.002	4/24/2024	<0.002	No	28	100	n/a	0.04425	NP Inter(NDs)
Beryllium (mg/L)	MW-D5	0.002	4/24/2024	<0.002	No	28	100	n/a	0.04425	NP Inter(NDs)
Beryllium (mg/L)	MW-D6	0.002	4/23/2024	<0.002	No	28	100	n/a	0.04425	NP Inter(NDs)
Beryllium (mg/L)	MW-D7	0.002	4/24/2024	<0.002	No	28	100	n/a	0.04425	NP Inter(NDs)
Beryllium (mg/L)	MW-D8	0.002	4/24/2024	<0.002	No	28	100	n/a	0.04425	NP Inter(NDs)
Beryllium (mg/L)	MW-D9	0.002	4/24/2024	<0.002	No	28	100	n/a	0.04425	NP Inter(NDs)
Cadmium (mg/L)	MW-D4	0.0025	4/24/2024	<0.001	No	29	96.55	n/a	0.04179	NP Inter(NDs)
Cadmium (mg/L)	MW-D5	0.0025	4/24/2024	<0.001	No	29	96.55	n/a	0.04179	NP Inter(NDs)
Cadmium (mg/L)	MW-D6	0.0025	4/23/2024	<0.001	No	29	96.55	n/a	0.04179	NP Inter(NDs)
Cadmium (mg/L)	MW-D7	0.0025	4/24/2024	<0.001	No	29	96.55	n/a	0.04179	NP Inter(NDs)
Cadmium (mg/L)	MW-D8	0.0025	4/24/2024	<0.001	No	29	96.55	n/a	0.04179	NP Inter(NDs)
Cadmium (mg/L)	MW-D9	0.0025	4/24/2024	<0.001	No	29	96.55	n/a	0.04179	NP Inter(NDs)
Chromium (mg/L)	MW-D4	0.0063	10/17/2024	0.0019	No	34	29.41	n/a	0.03152	NP Inter(normal...
Chromium (mg/L)	MW-D5	0.0063	10/17/2024	0.0039	No	34	29.41	n/a	0.03152	NP Inter(normal...
Chromium (mg/L)	MW-D6	0.0063	10/17/2024	0.0027	No	34	29.41	n/a	0.03152	NP Inter(normal...
Chromium (mg/L)	MW-D7	0.0063	10/17/2024	0.0012	No	34	29.41	n/a	0.03152	NP Inter(normal...
Chromium (mg/L)	MW-D8	0.0063	10/17/2024	<0.0025	No	34	29.41	n/a	0.03152	NP Inter(normal...
Chromium (mg/L)	MW-D9	0.0063	10/17/2024	<0.0025	No	34	29.41	n/a	0.03152	NP Inter(normal...
Cobalt (mg/L)	MW-D4	0.005	10/17/2024	<0.0025	No	35	91.43	n/a	0.02982	NP Inter(NDs)
Cobalt (mg/L)	MW-D5	0.005	10/17/2024	0.0012	No	35	91.43	n/a	0.02982	NP Inter(NDs)
Cobalt (mg/L)	MW-D6	0.005	10/17/2024	<0.0025	No	35	91.43	n/a	0.02982	NP Inter(NDs)
Cobalt (mg/L)	MW-D7	0.005	10/17/2024	0.00054	No	35	91.43	n/a	0.02982	NP Inter(NDs)
Cobalt (mg/L)	MW-D8	0.005	10/17/2024	0.00022	No	35	91.43	n/a	0.02982	NP Inter(NDs)
Cobalt (mg/L)	MW-D9	0.005	10/17/2024	<0.0025	No	35	91.43	n/a	0.02982	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	MW-D4	1.277	10/17/2024	<0.847	No	37	5.405	No	0.001674	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D5	1.277	10/17/2024	<1.8	No	37	5.405	No	0.001674	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D6	1.277	10/17/2024	<0.672	No	37	5.405	No	0.001674	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D7	1.277	10/17/2024	<0.737	No	37	5.405	No	0.001674	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D8	1.277	10/17/2024	<0.851	No	37	5.405	No	0.001674	Inter
Combined Radium 226 + 228 (pCi/L)	MW-D9	1.277	10/17/2024	<0.765	No	37	5.405	No	0.001674	Inter
Fluoride (mg/L)	MW-D4	0.45	10/17/2024	0.14	No	37	8.108	n/a	0.0267	NP Inter(normal...
Fluoride (mg/L)	MW-D5	0.45	10/17/2024	0.03	No	37	8.108	n/a	0.0267	NP Inter(normal...

# Tolerance Limit

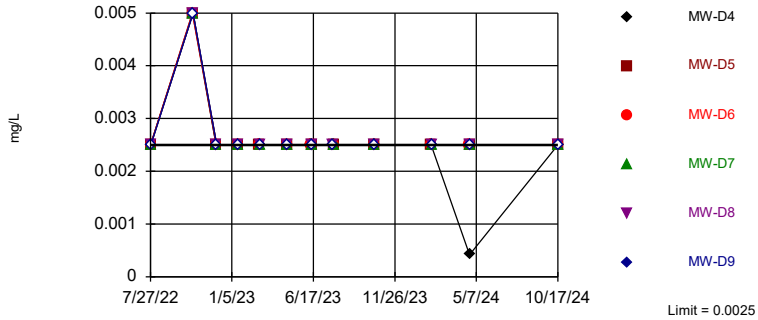
CCPC Plant Crisp Ash Pond Site    Client: Geosyntec    Data: Sanitas Input    Printed 12/31/2024, 10:43 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Fluoride (mg/L)	MW-D6	0.45	10/17/2024	0.09	No	37	8.108	n/a	0.0267	NP Inter(normal...
Fluoride (mg/L)	MW-D7	0.45	10/17/2024	0.078	No	37	8.108	n/a	0.0267	NP Inter(normal...
Fluoride (mg/L)	MW-D8	0.45	10/17/2024	0.059	No	37	8.108	n/a	0.0267	NP Inter(normal...
Fluoride (mg/L)	MW-D9	0.45	10/17/2024	0.084	No	37	8.108	n/a	0.0267	NP Inter(normal...
Lead (mg/L)	MW-D4	0.0025	10/17/2024	<0.0013	No	30	96.67	n/a	0.03947	NP Inter(NDs)
Lead (mg/L)	MW-D5	0.0025	10/17/2024	0.0011	No	30	96.67	n/a	0.03947	NP Inter(NDs)
Lead (mg/L)	MW-D6	0.0025	10/17/2024	<0.0013	No	30	96.67	n/a	0.03947	NP Inter(NDs)
Lead (mg/L)	MW-D7	0.0025	10/17/2024	<0.0013	No	30	96.67	n/a	0.03947	NP Inter(NDs)
Lead (mg/L)	MW-D8	0.0025	10/17/2024	<0.0013	No	30	96.67	n/a	0.03947	NP Inter(NDs)
Lead (mg/L)	MW-D9	0.0025	10/17/2024	<0.0013	No	30	96.67	n/a	0.03947	NP Inter(NDs)
Lithium (mg/L)	MW-D4	0.0058	4/24/2024	<0.0025	No	31	93.55	n/a	0.03729	NP Inter(NDs)
Lithium (mg/L)	MW-D5	0.0058	4/24/2024	<0.0025	No	31	93.55	n/a	0.03729	NP Inter(NDs)
Lithium (mg/L)	MW-D6	0.0058	4/23/2024	<0.0025	No	31	93.55	n/a	0.03729	NP Inter(NDs)
Lithium (mg/L)	MW-D7	0.0058	4/24/2024	<0.0025	No	31	93.55	n/a	0.03729	NP Inter(NDs)
Lithium (mg/L)	MW-D8	0.0058	4/24/2024	<0.0025	No	31	93.55	n/a	0.03729	NP Inter(NDs)
Lithium (mg/L)	MW-D9	0.0058	4/24/2024	<0.0025	No	31	93.55	n/a	0.03729	NP Inter(NDs)
Mercury (mg/L)	MW-D4	0.0002	4/24/2024	<0.0002	No	28	92.86	n/a	0.04425	NP Inter(NDs)
Mercury (mg/L)	MW-D5	0.0002	4/24/2024	<0.0002	No	28	92.86	n/a	0.04425	NP Inter(NDs)
Mercury (mg/L)	MW-D6	0.0002	4/23/2024	<0.0002	No	28	92.86	n/a	0.04425	NP Inter(NDs)
Mercury (mg/L)	MW-D7	0.0002	4/24/2024	<0.0002	No	28	92.86	n/a	0.04425	NP Inter(NDs)
Mercury (mg/L)	MW-D8	0.0002	4/24/2024	<0.0002	No	28	92.86	n/a	0.04425	NP Inter(NDs)
Mercury (mg/L)	MW-D9	0.0002	4/24/2024	<0.0002	No	28	92.86	n/a	0.04425	NP Inter(NDs)
Molybdenum (mg/L)	MW-D4	0.02	4/24/2024	<0.01	No	35	94.29	n/a	0.02982	NP Inter(NDs)
Molybdenum (mg/L)	MW-D5	0.02	4/24/2024	<0.01	No	35	94.29	n/a	0.02982	NP Inter(NDs)
Molybdenum (mg/L)	MW-D6	0.02	4/23/2024	<0.01	No	35	94.29	n/a	0.02982	NP Inter(NDs)
Molybdenum (mg/L)	MW-D7	0.02	4/24/2024	<0.01	No	35	94.29	n/a	0.02982	NP Inter(NDs)
Molybdenum (mg/L)	MW-D8	0.02	4/24/2024	<0.01	No	35	94.29	n/a	0.02982	NP Inter(NDs)
Molybdenum (mg/L)	MW-D9	0.02	4/24/2024	<0.01	No	35	94.29	n/a	0.02982	NP Inter(NDs)
Selenium (mg/L)	MW-D4	0.0026	10/17/2024	<0.0013	No	33	54.55	n/a	0.03333	NP Inter(normal...
Selenium (mg/L)	MW-D5	0.0026	10/17/2024	<0.0013	No	33	54.55	n/a	0.03333	NP Inter(normal...
Selenium (mg/L)	MW-D6	0.0026	10/17/2024	<0.0013	No	33	54.55	n/a	0.03333	NP Inter(normal...
Selenium (mg/L)	MW-D7	0.0026	10/17/2024	<0.0013	No	33	54.55	n/a	0.03333	NP Inter(normal...
Selenium (mg/L)	MW-D8	0.0026	10/17/2024	<0.0013	No	33	54.55	n/a	0.03333	NP Inter(normal...
Selenium (mg/L)	MW-D9	0.0026	10/17/2024	<0.0013	No	33	54.55	n/a	0.03333	NP Inter(normal...
Thallium (mg/L)	MW-D4	0.0005	4/24/2024	<0.0005	No	32	100	n/a	0.03525	NP Inter(NDs)
Thallium (mg/L)	MW-D5	0.0005	4/24/2024	<0.0005	No	32	100	n/a	0.03525	NP Inter(NDs)
Thallium (mg/L)	MW-D6	0.0005	4/23/2024	<0.0005	No	32	100	n/a	0.03525	NP Inter(NDs)
Thallium (mg/L)	MW-D7	0.0005	4/24/2024	<0.0005	No	32	100	n/a	0.03525	NP Inter(NDs)
Thallium (mg/L)	MW-D8	0.0005	4/24/2024	<0.0005	No	32	100	n/a	0.03525	NP Inter(NDs)
Thallium (mg/L)	MW-D9	0.0005	4/24/2024	<0.0005	No	32	100	n/a	0.03525	NP Inter(NDs)



Within Limit

Tolerance Limit  
Interwell Non-parametric

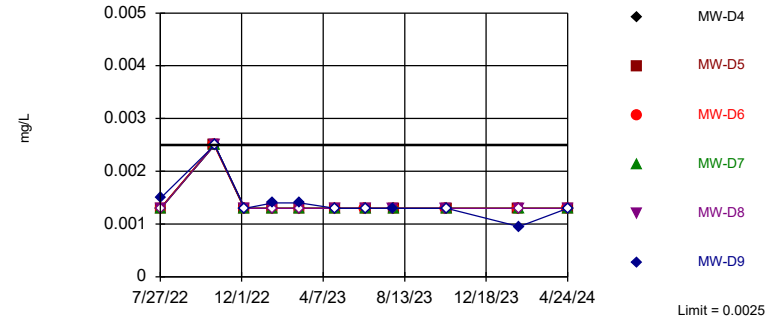


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 85.74% coverage at alpha=0.01; 90.43% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.2146.

Constituent: Antimony Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

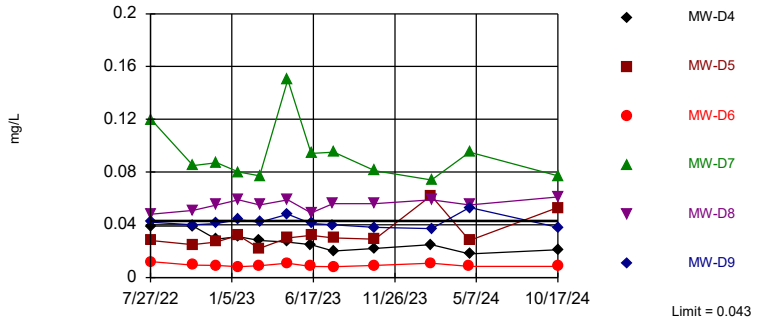


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 36 background values. 88.89% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Arsenic Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Exceeds Limit: MW-D5, MW-D7, MW-D8

Tolerance Limit  
Interwell Non-parametric

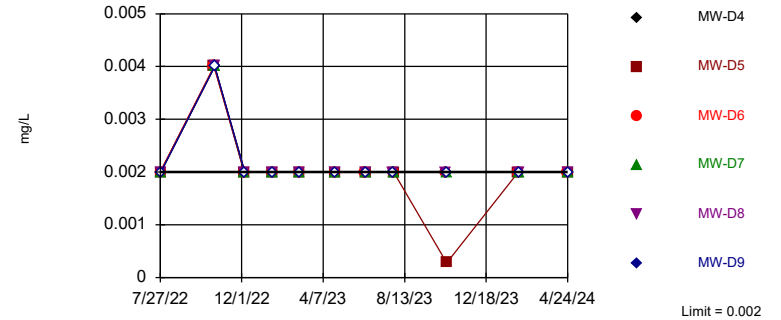


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 37 background values. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Barium Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

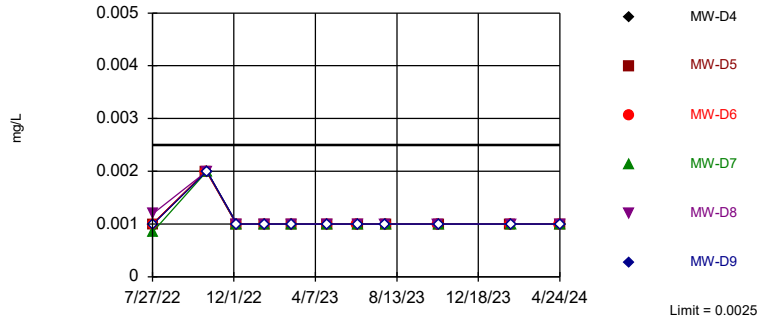


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Beryllium Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

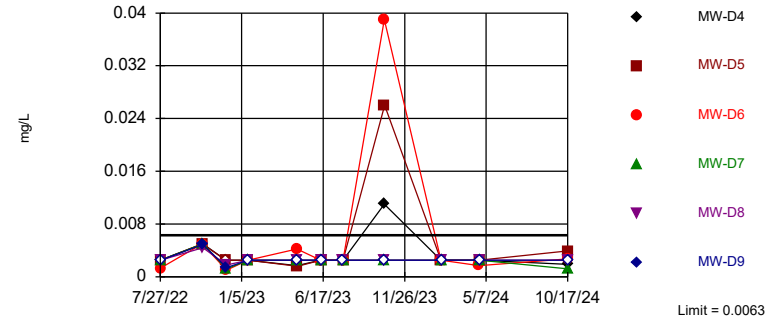


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 29 background values. 96.55% NDs. 85.35% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2259.

Constituent: Cadmium Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

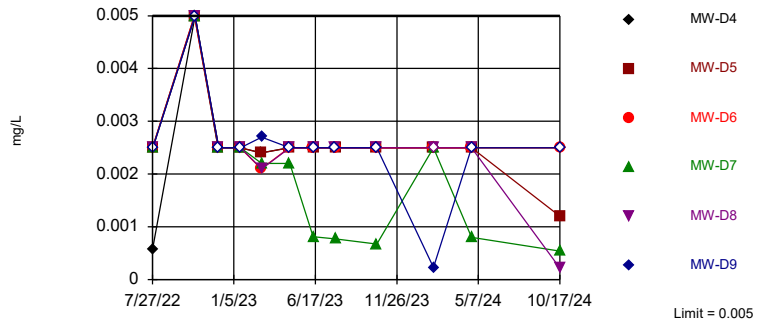


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 34 background values. 29.41% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Chromium Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

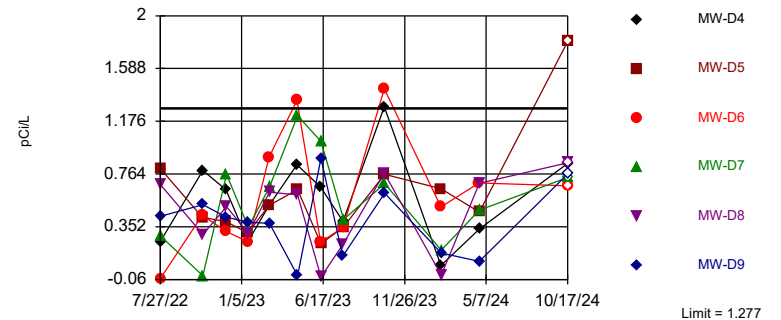


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 35 background values. 91.43% NDs. 87.7% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1661.

Constituent: Cobalt Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Parametric

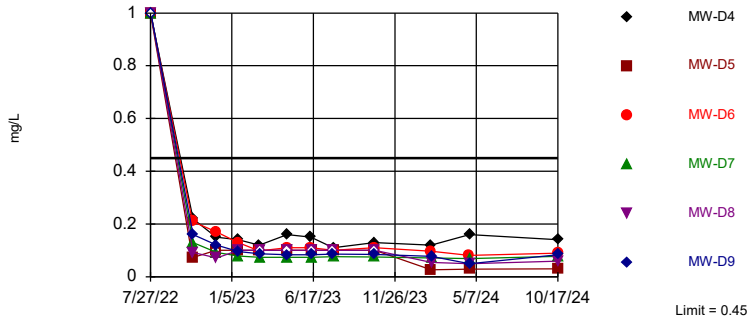


95% coverage. Most recent observation is compared with limit. Background Data Summary: Mean=0.3701, Std. Dev.=0.377, n=37, 5.405% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9462, critical = 0.914. Report alpha = 0.01.

Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

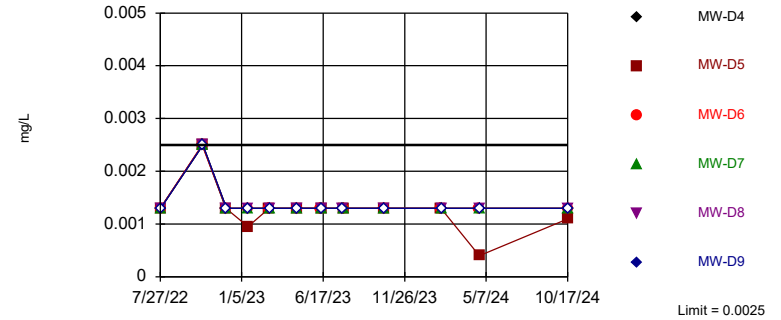


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 37 background values. 8.108% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Fluoride Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

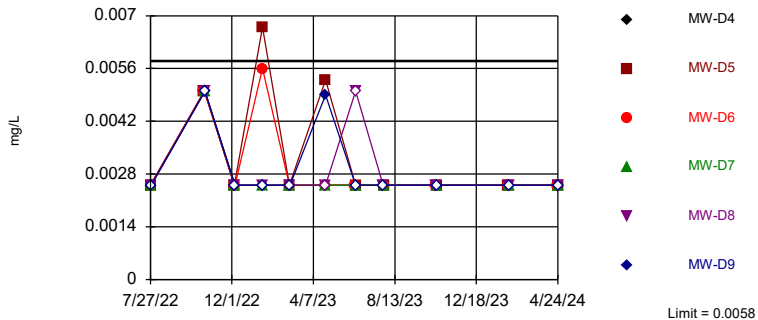


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 30 background values. 96.67% NDs. 85.74% coverage at alpha=0.01; 90.43% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.2146.

Constituent: Lead Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

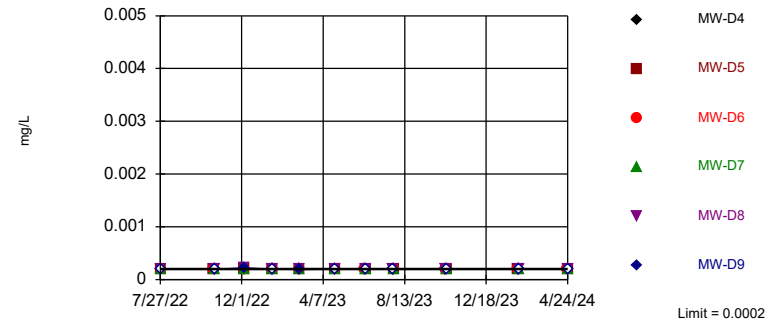


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 31 background values. 93.55% NDs. 86.13% coverage at alpha=0.01; 90.82% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.2039.

Constituent: Lithium Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

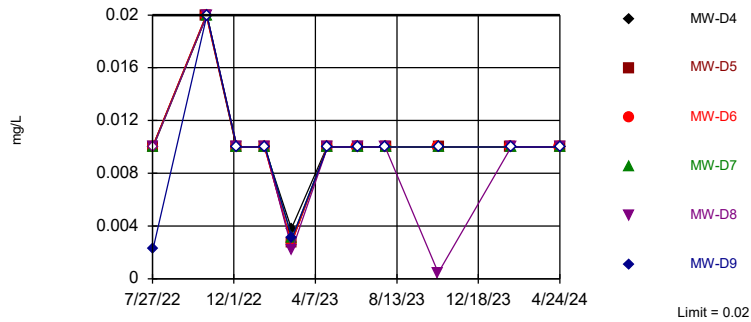


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 28 background values. 92.86% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Mercury Analysis Run 12/31/2024 10:42 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

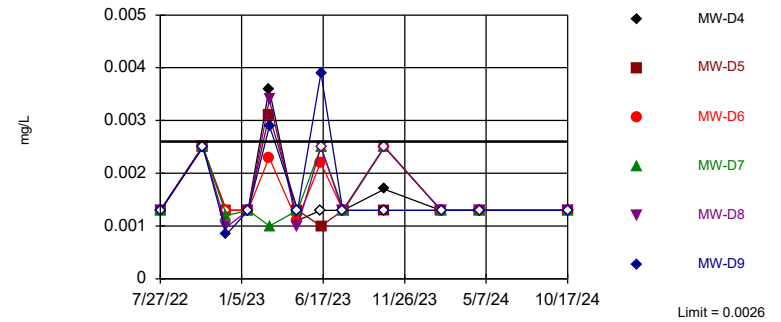


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. Limit is highest of 35 background values. 94.29% NDs. 87.7% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1661.

Constituent: Molybdenum Analysis Run 12/31/2024 10:43 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric

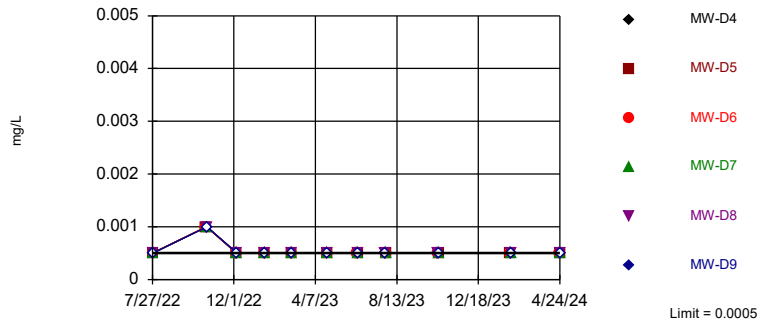


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Most recent observation is compared with limit. Limit is highest of 33 background values. 54.55% NDs. 86.91% coverage at alpha=0.01; 91.21% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.184.

Constituent: Selenium Analysis Run 12/31/2024 10:43 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Within Limit

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 86.52% coverage at alpha=0.01; 91.21% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1937.

Constituent: Thallium Analysis Run 12/31/2024 10:43 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

# Confidence Interval

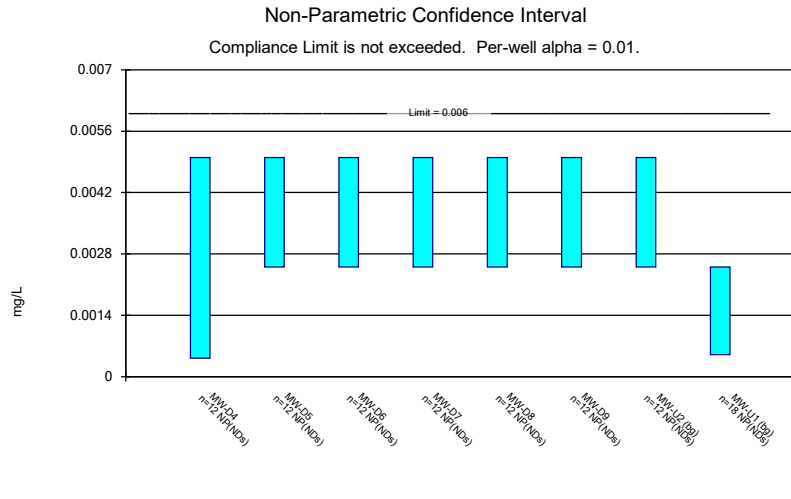
CCPC Plant Crisp Ash Pond Site    Client: Geosyntec    Data: Sanitas Input    Printed 12/31/2024, 10:51 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-D4	0.005	0.00042	0.006	No	12	0.002535	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D5	0.005	0.0025	0.006	No	12	0.002708	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D6	0.005	0.0025	0.006	No	12	0.002708	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D7	0.005	0.0025	0.006	No	12	0.002708	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D8	0.005	0.0025	0.006	No	12	0.002708	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D9	0.005	0.0025	0.006	No	12	0.002708	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-U2 (bg)	0.005	0.0025	0.006	No	12	0.002708	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.006	No	18	0.002389	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D4	0.0013	0.0013	0.01	No	11	0.001409	100	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-D5	0.0013	0.0013	0.01	No	11	0.001409	100	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-D6	0.0013	0.0013	0.01	No	11	0.001409	100	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-D7	0.0013	0.0013	0.01	No	11	0.001409	100	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-D8	0.0013	0.0013	0.01	No	11	0.001409	100	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-D9	0.0015	0.0013	0.01	No	11	0.001414	54.55	None	No	0.006	NP (normality)
Arsenic (mg/L)	MW-U2 (bg)	0.0025	0.0013	0.01	No	12	0.0014	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-U1 (bg)	0.0019	0.0013	0.01	No	24	0.001292	83.33	None	No	0.01	NP (NDs)
Barium (mg/L)	MW-D4	0.03233	0.02167	2	No	12	0.027	0	None	No	0.01	Param.
Barium (mg/L)	MW-D5	0.053	0.025	2	No	12	0.03317	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-D6	0.01033	0.008408	2	No	12	0.009383	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MW-D7	0.12	0.077	2	No	12	0.09292	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-D8	0.05848	0.05202	2	No	12	0.05525	0	None	No	0.01	Param.
Barium (mg/L)	MW-D9	0.04557	0.03843	2	No	12	0.042	0	None	No	0.01	Param.
Barium (mg/L)	MW-U2 (bg)	0.02346	0.01057	2	No	12	0.01751	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MW-U1 (bg)	0.0026	0.0021	2	No	25	0.002612	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-D4	0.002	0.002	0.004	No	11	0.002182	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-D5	0.002	0.002	0.004	No	11	0.002025	90.91	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-D6	0.002	0.002	0.004	No	11	0.002182	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-D7	0.002	0.002	0.004	No	11	0.002182	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-D8	0.002	0.002	0.004	No	11	0.002182	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-D9	0.002	0.002	0.004	No	11	0.002182	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-U2 (bg)	0.002	0.002	0.004	No	11	0.002182	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-U1 (bg)	0.0025	0.0004	0.004	No	17	0.001935	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D4	0.001	0.001	0.005	No	11	0.001091	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-D5	0.001	0.001	0.005	No	11	0.001091	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-D6	0.001	0.001	0.005	No	11	0.001091	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-D7	0.001	0.001	0.005	No	11	0.001078	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-D8	0.0012	0.001	0.005	No	11	0.001109	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-D9	0.001	0.001	0.005	No	11	0.001091	100	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-U2 (bg)	0.002	0.001	0.005	No	11	0.001182	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	MW-U1 (bg)	0.0025	0.0002	0.005	No	18	0.001039	100	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D4	0.005	0.0019	0.1	No	11	0.003373	72.73	None	No	0.006	NP (normality)
Chromium (mg/L)	MW-D5	0.005	0.0025	0.1	No	11	0.004909	72.73	None	No	0.006	NP (normality)
Chromium (mg/L)	MW-D6	0.005	0.0013	0.1	No	11	0.0059	45.45	None	No	0.006	NP (normality)
Chromium (mg/L)	MW-D7	0.0025	0.0012	0.1	No	11	0.002491	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-D8	0.0025	0.0025	0.1	No	11	0.002609	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-D9	0.0025	0.0025	0.1	No	11	0.002618	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-U2 (bg)	0.005	0.0023	0.1	No	11	0.003136	63.64	None	No	0.006	NP (normality)
Chromium (mg/L)	MW-U1 (bg)	0.0022	0.0013	0.1	No	23	0.001943	13.04	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-D4	0.005	0.0024	0.006	No	12	0.002539	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D5	0.005	0.0024	0.006	No	12	0.002592	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D6	0.005	0.0021	0.006	No	12	0.002675	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D7	0.005	0.00067	0.006	No	12	0.001916	41.67	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	MW-D8	0.005	0.0021	0.006	No	12	0.002485	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D9	0.0027	0.00023	0.006	No	12	0.002536	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-U2 (bg)	0.005	0.0022	0.006	No	12	0.002532	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-U1 (bg)	0.0025	0.0013	0.006	No	23	0.002274	95.65	None	No	0.01	NP (NDs)
Combined Radium 226 + ...	MW-D4	0.8408	0.2991	5	No	12	0.5699	8.333	None	No	0.01	Param.
Combined Radium 226 + ...	MW-D5	0.8632	0.3279	5	No	12	0.6111	8.333	None	sqrt(x)	0.01	Param.
Combined Radium 226 + ...	MW-D6	0.9398	0.2363	5	No	12	0.588	8.333	None	No	0.01	Param.
Combined Radium 226 + ...	MW-D7	0.842	0.2821	5	No	12	0.562	8.333	None	No	0.01	Param.
Combined Radium 226 + ...	MW-D8	0.6925	0.2191	5	No	12	0.4558	8.333	None	No	0.01	Param.
Combined Radium 226 + ...	MW-D9	0.6146	0.1756	5	No	12	0.3951	8.333	None	No	0.01	Param.
Combined Radium 226 + ...	MW-U2 (bg)	0.8248	0.2521	5	No	12	0.5385	8.333	None	No	0.01	Param.
Combined Radium 226 + ...	MW-U1 (bg)	0.4698	0.1087	5	No	25	0.2892	4	None	No	0.01	Param.
Fluoride (mg/L)	MW-D4	0.22	0.12	4	No	12	0.2167	8.333	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D5	1	0.029	4	No	12	0.1549	66.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D6	0.21	0.09	4	No	12	0.1922	8.333	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D7	0.13	0.071	4	No	12	0.1577	8.333	None	No	0.01	NP (normality)

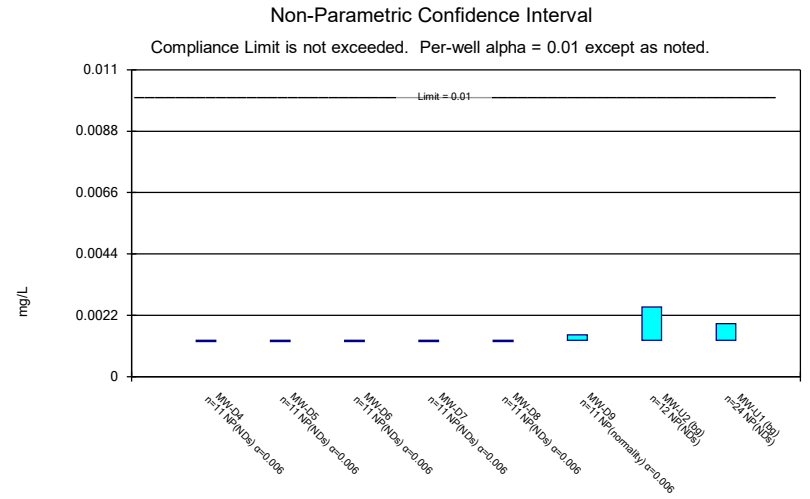
# Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input Printed 12/31/2024, 10:51 AM

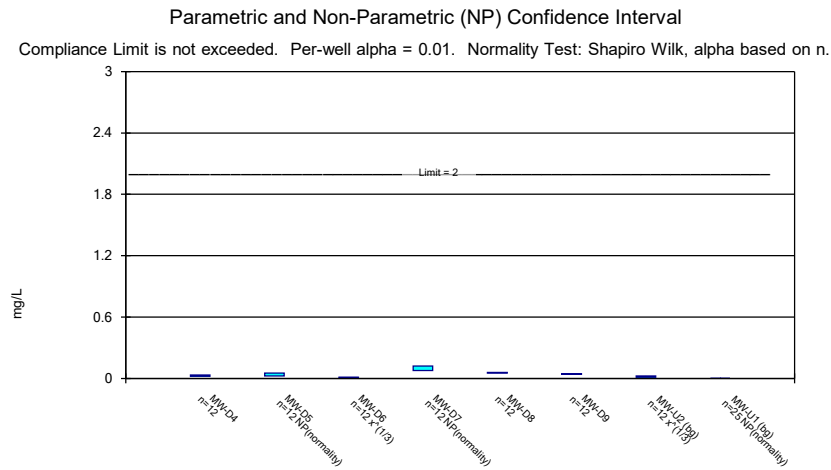
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MW-D8	1	0.054	4	No	12	0.1606	58.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D9	0.16	0.077	4	No	12	0.1677	8.333	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-U2 (bg)	0.2459	0.07093	4	No	12	0.1648	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-U1 (bg)	0.07811	0.05758	4	No	25	0.06896	12	None	sqrt(x)	0.01	Param.
Lead (mg/L)	MW-D4	0.0025	0.0013	0.015	No	12	0.0014	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D5	0.0025	0.00095	0.015	No	12	0.001279	75	None	No	0.01	NP (normality)
Lead (mg/L)	MW-D6	0.0025	0.0013	0.015	No	12	0.0014	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D7	0.0025	0.0013	0.015	No	12	0.0014	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D8	0.0025	0.0013	0.015	No	12	0.0014	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D9	0.0025	0.0013	0.015	No	12	0.0014	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-U2 (bg)	0.0025	0.0013	0.015	No	12	0.0014	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-U1 (bg)	0.0013	0.00065	0.015	No	18	0.001206	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D4	0.0025	0.0025	0.04	No	11	0.002727	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-D5	0.0053	0.0025	0.04	No	11	0.003364	81.82	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-D6	0.005	0.0025	0.04	No	11	0.003009	90.91	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-D7	0.0025	0.0025	0.04	No	11	0.002727	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-D8	0.005	0.0025	0.04	No	11	0.002955	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-D9	0.0049	0.0025	0.04	No	11	0.002945	90.91	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-U2 (bg)	0.0025	0.0025	0.04	No	11	0.002727	100	None	No	0.006	NP (NDs)
Lithium (mg/L)	MW-U1 (bg)	0.0058	0.0005	0.04	No	20	0.002457	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D4	0.0002	0.0002	0.002	No	11	0.0002	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-D5	0.0002	0.0002	0.002	No	11	0.0002	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-D6	0.0002	0.0002	0.002	No	11	0.0002	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-D7	0.0002	0.0002	0.002	No	11	0.0002	100	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-D8	0.0002	0.0002	0.002	No	11	0.000...	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-D9	0.0002	0.0002	0.002	No	11	0.000...	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-U2 (bg)	0.0002	0.0002	0.002	No	11	0.000...	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	MW-U1 (bg)	0.0002	0.000099	0.002	No	17	0.000...	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D4	0.01	0.01	0.1	No	11	0.01035	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-D5	0.01	0.01	0.1	No	11	0.01025	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-D6	0.01	0.01	0.1	No	11	0.01025	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-D7	0.01	0.01	0.1	No	11	0.01028	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-D8	0.01	0.0022	0.1	No	11	0.009333	81.82	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-D9	0.01	0.0031	0.1	No	11	0.009582	81.82	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-U2 (bg)	0.02	0.0033	0.1	No	12	0.01027	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-U1 (bg)	0.02	0.003	0.1	No	23	0.009396	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D4	0.0025	0.0011	0.05	No	12	0.001608	75	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-D5	0.0025	0.001	0.05	No	12	0.001525	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D6	0.0025	0.0011	0.05	No	12	0.001642	75	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-D7	0.0025	0.0012	0.05	No	12	0.001567	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D8	0.0034	0.001	0.05	No	12	0.001723	75	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-D9	0.0029	0.00084	0.05	No	12	0.001712	75	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-U2 (bg)	0.0025	0.0012	0.05	No	12	0.001608	33.33	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-U1 (bg)	0.0013	0.00062	0.05	No	21	0.00106	66.67	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D4	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-D5	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-D6	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-D7	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-D8	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-D9	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-U2 (bg)	0.0005	0.0005	0.002	No	11	0.000...	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-U1 (bg)	0.0005	0.0001	0.002	No	21	0.000481	100	None	No	0.01	NP (NDs)



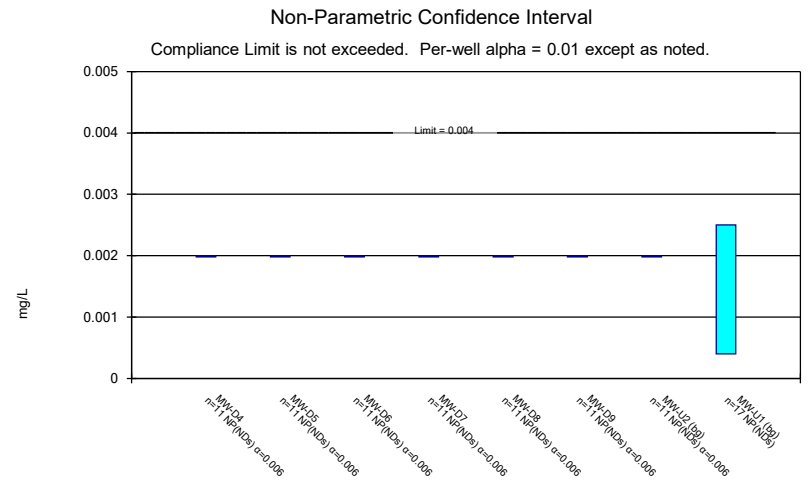
Constituent: Antimony Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



Constituent: Arsenic Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



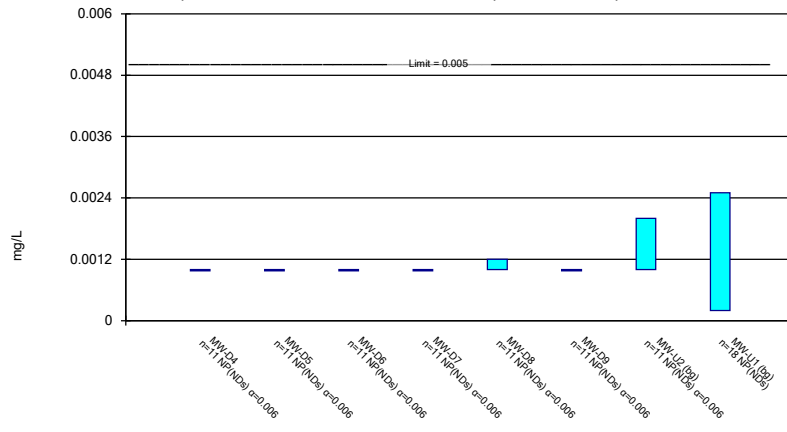
Constituent: Barium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



Constituent: Beryllium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

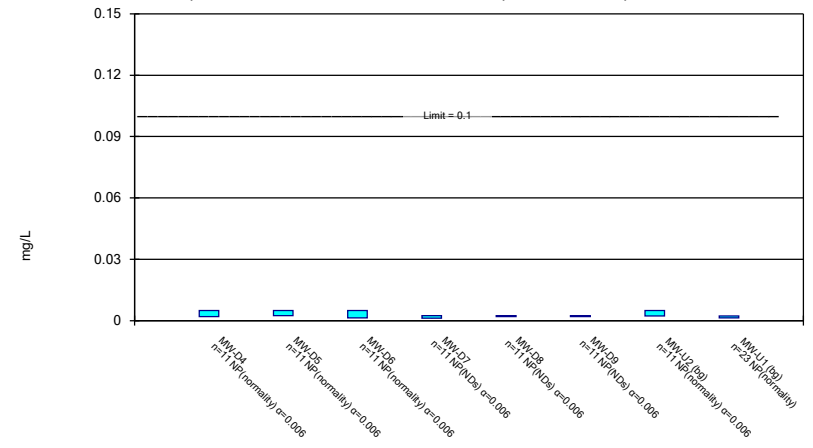
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

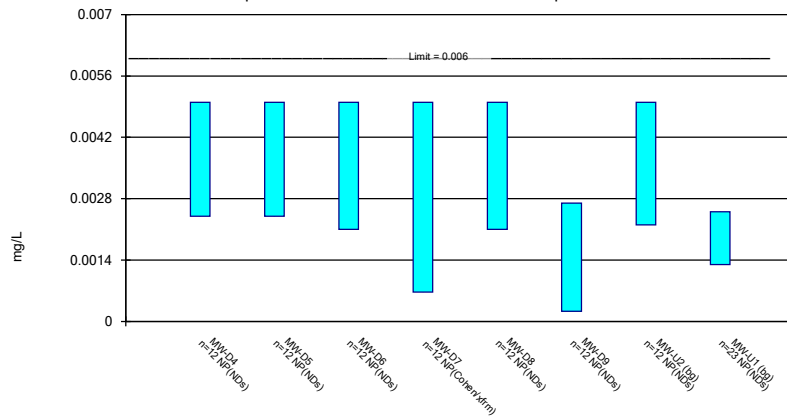
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

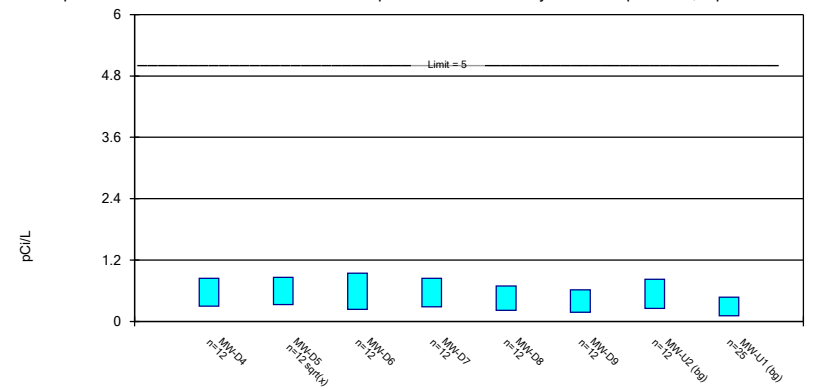
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

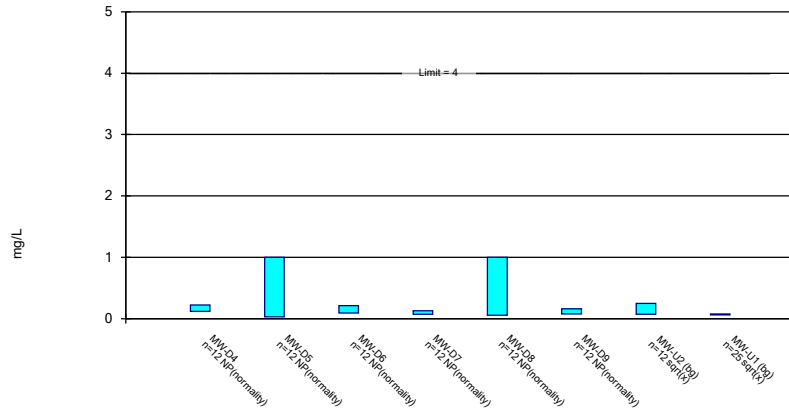


Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input



### Parametric and Non-Parametric (NP) Confidence Interval

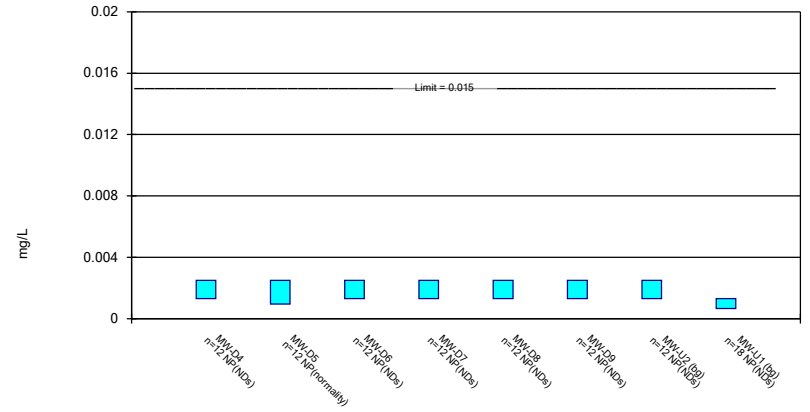
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

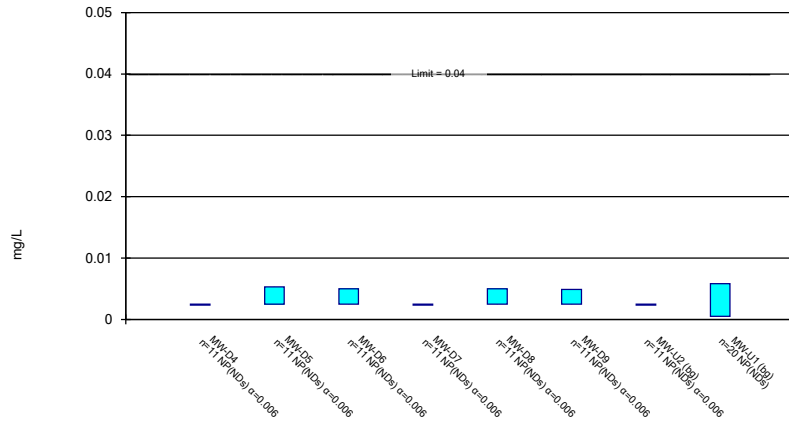
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

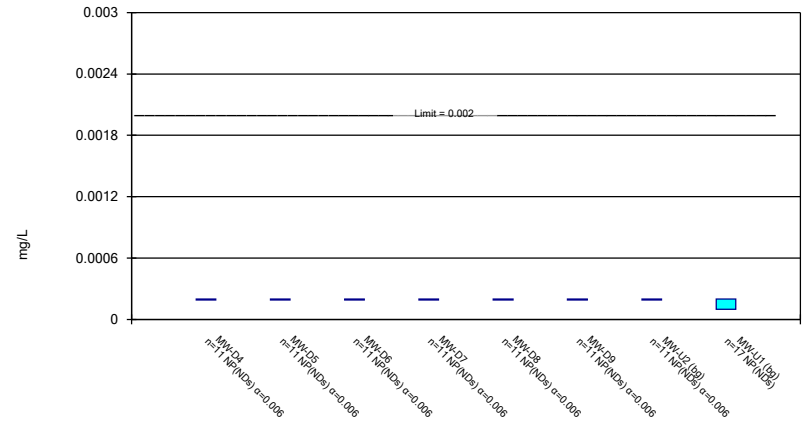
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lithium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

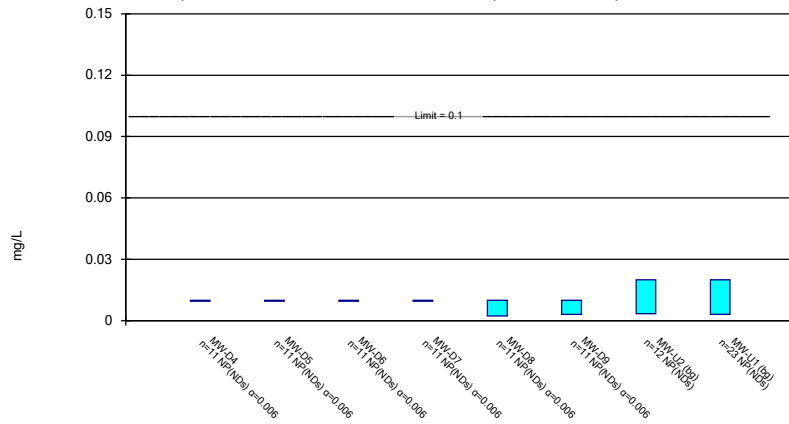
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

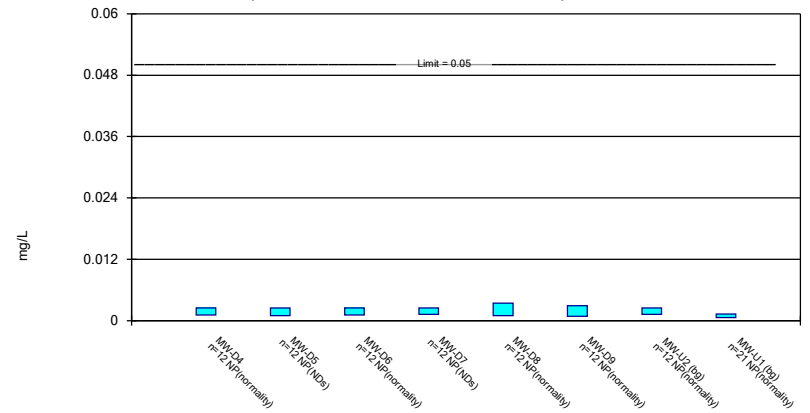
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Molybdenum Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

### Non-Parametric Confidence Interval

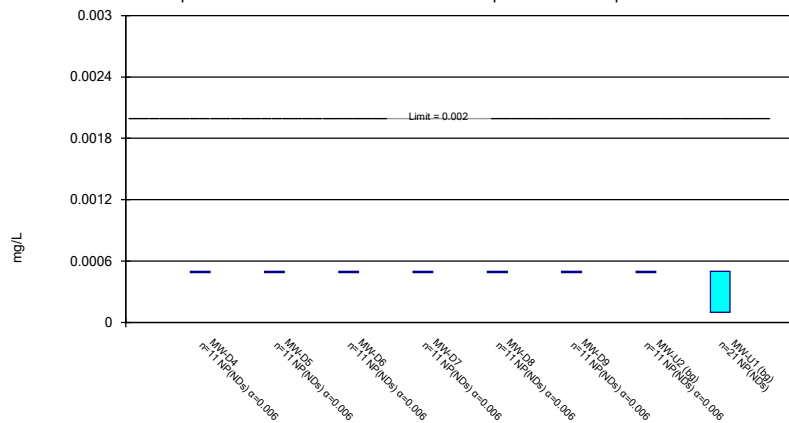
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

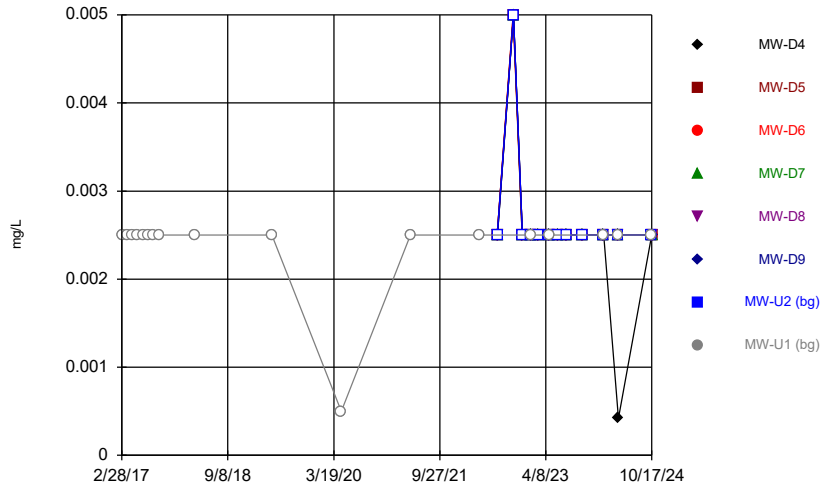
### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



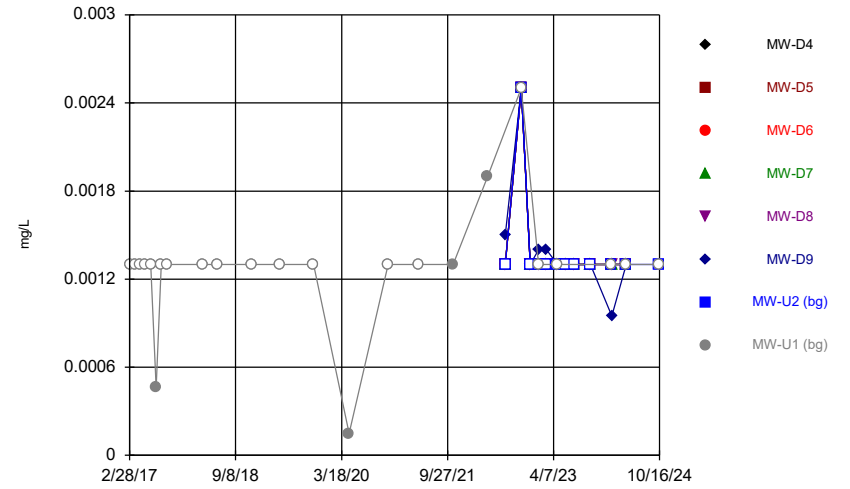
Constituent: Thallium Analysis Run 12/31/2024 10:47 AM View: Sanitas\_through\_October2024  
 CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



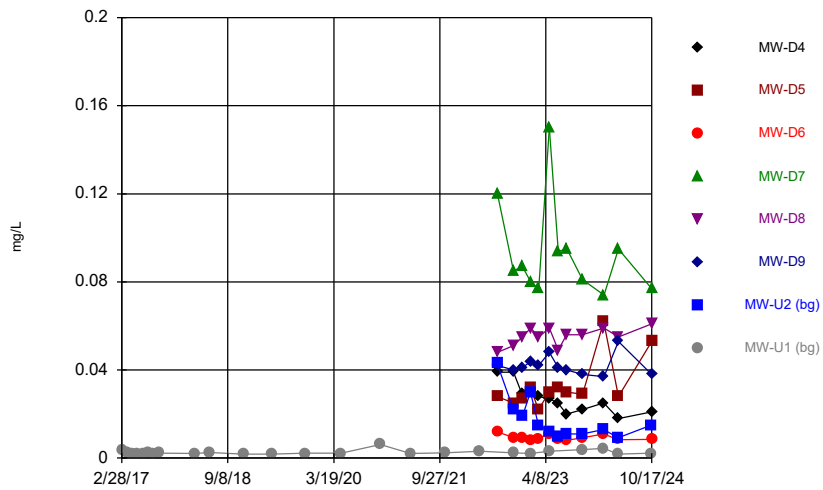
Constituent: Antimony Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



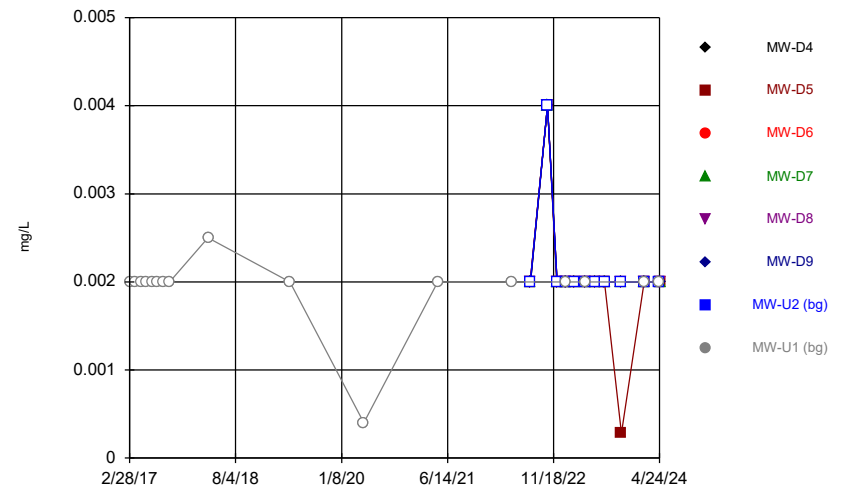
Constituent: Arsenic Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



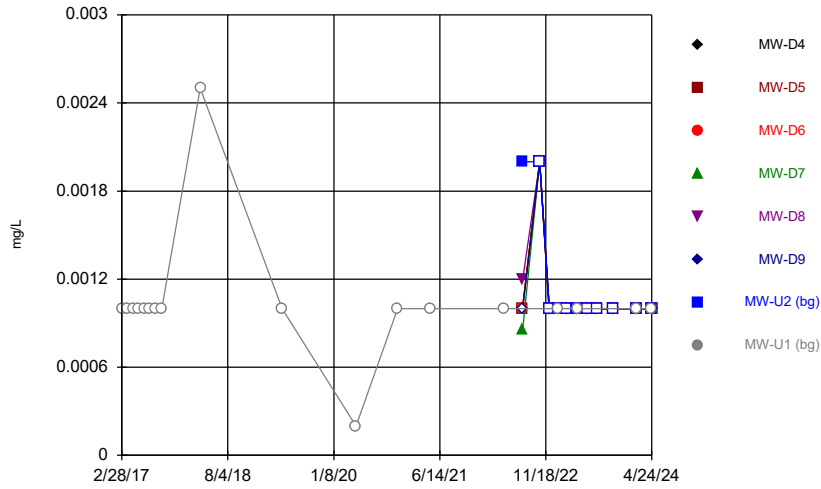
Constituent: Barium Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



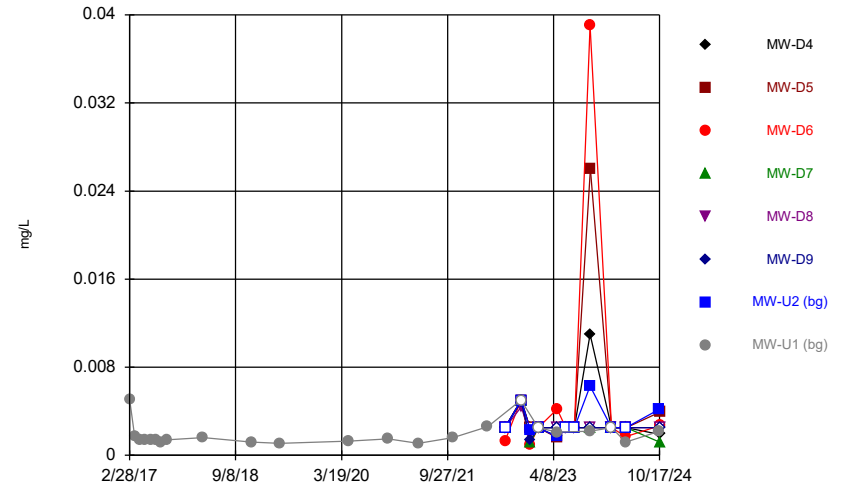
Constituent: Beryllium Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



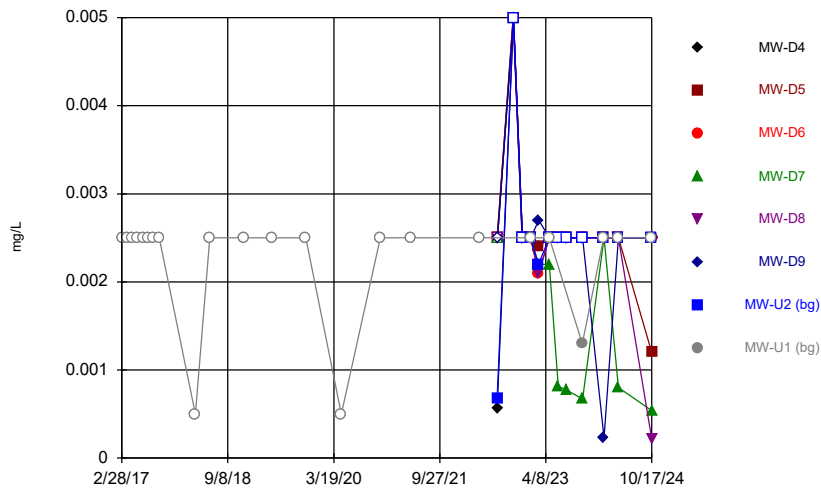
Constituent: Cadmium Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



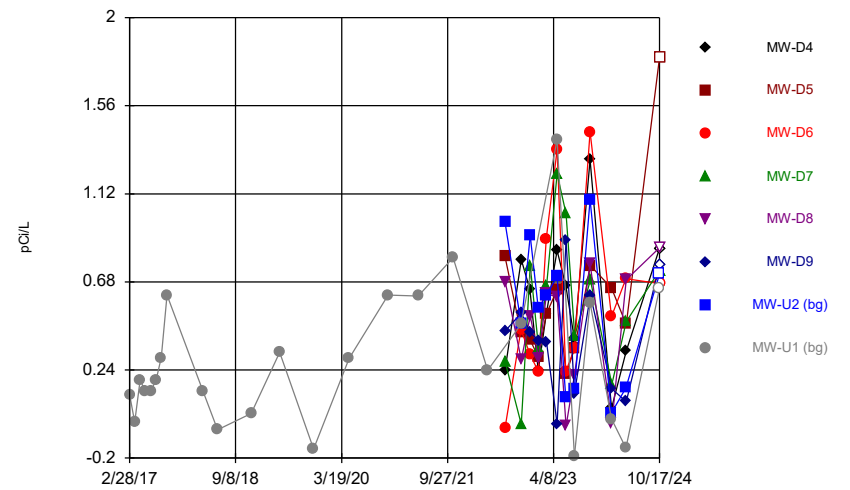
Constituent: Chromium Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



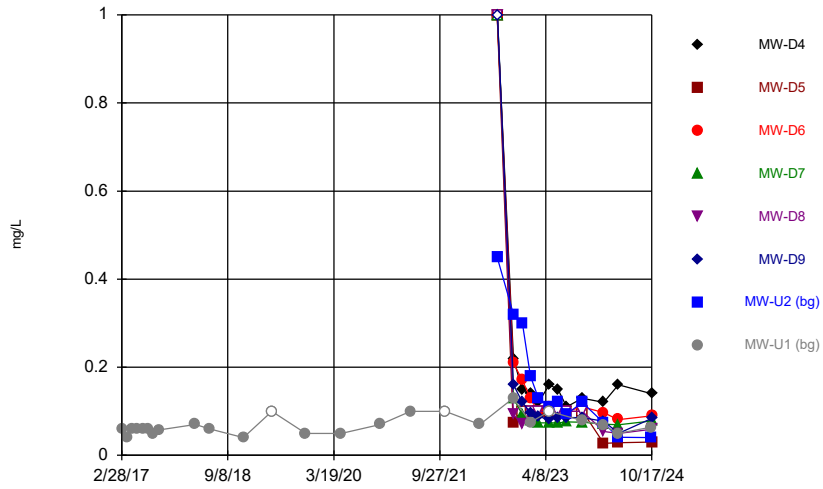
Constituent: Cobalt Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series

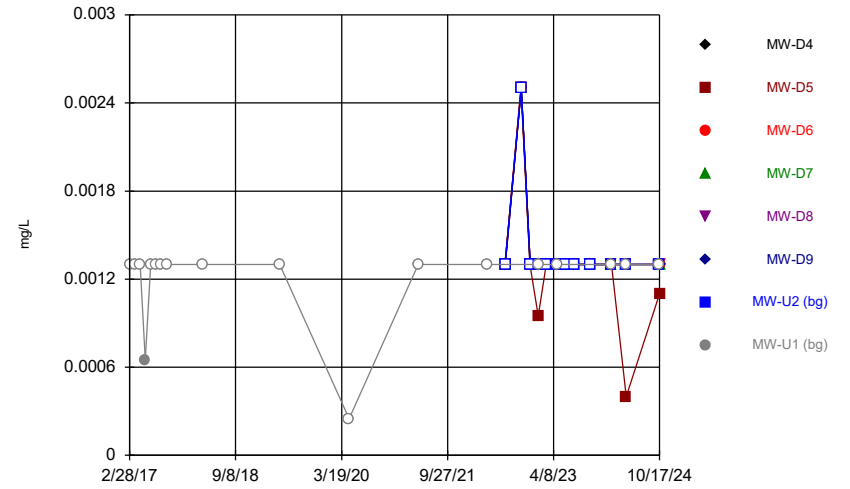


Constituent: Combined Radium 226 + 228 Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

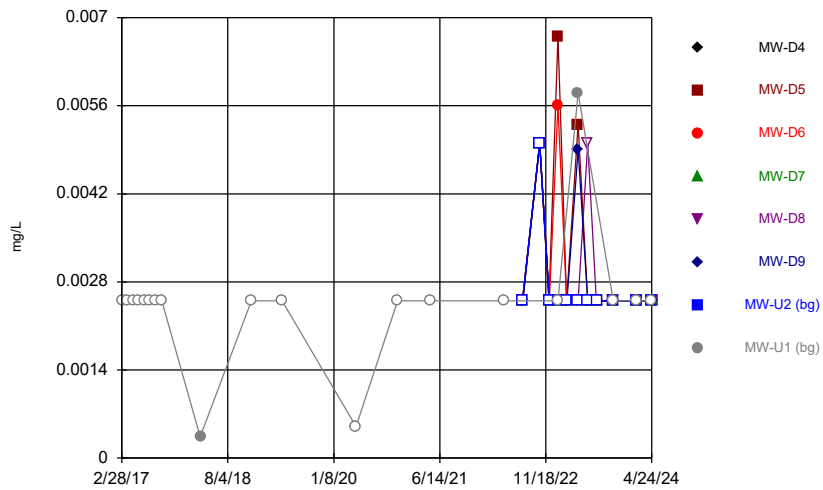
### Time Series



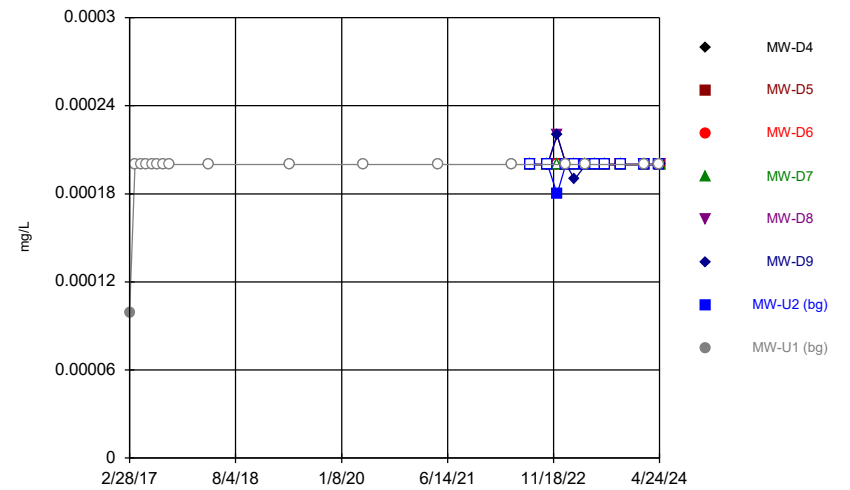
### Time Series



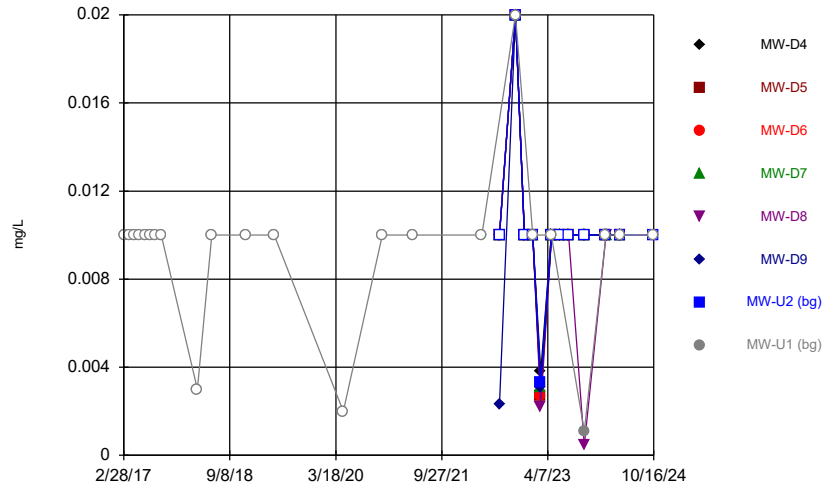
### Time Series



### Time Series

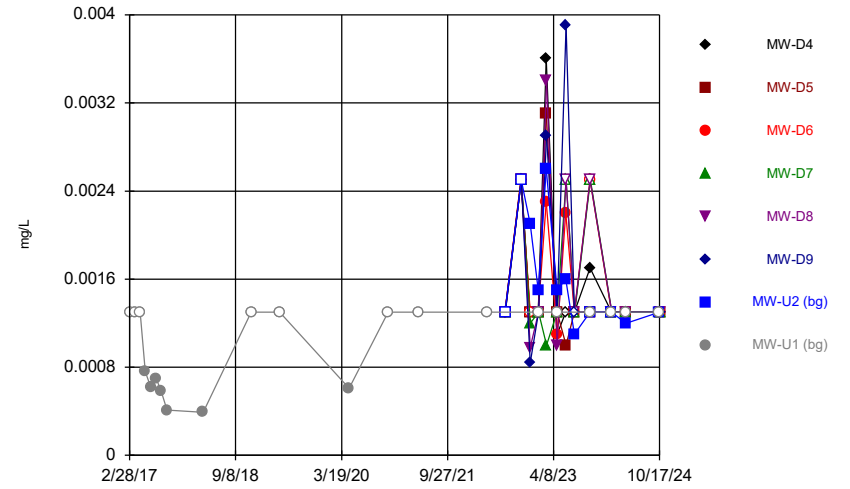


Time Series



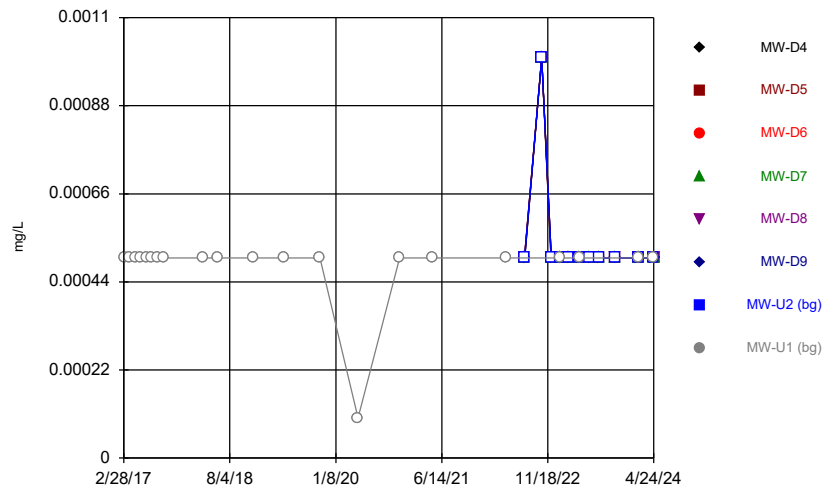
Constituent: Molybdenum Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



Constituent: Selenium Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input

Time Series



Constituent: Thallium Analysis Run 12/31/2024 10:51 AM View: Sanitas\_through\_October2024  
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas Input