*Prepared for*


**Crisp County Power Commission**
202 S. 7th Street
Cordele, Georgia 31015

# 2023 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

## CRISP COUNTY POWER COMMISSION
## PLANT CRISP ASH POND
## Warwick, Georgia

*Prepared by*

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July 2023

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## CERTIFICATION BY QUALIFIED GROUNDWATER SCIENTIST

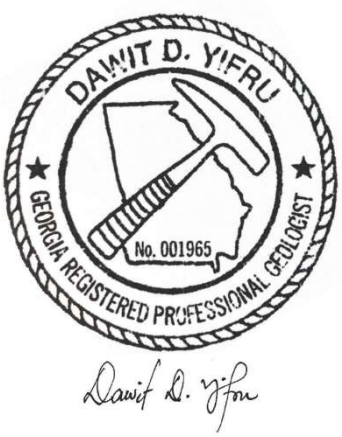
I certify that this Semi-Annual Groundwater Monitoring Report meets the requirements of Section 40 C.F.R. §257 of the Federal Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule (40 C.F.R. §257) and the Georgia EPD Solid Waste Management Rule for Coal Combustion Residuals (391-3-4-.10). The Semi-Annual 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

PG001965 — Registration No.

Georgia — Registration State




07/31/2023

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## TABLE OF CONTENTS



## LIST OF TABLES

## LIST OF FIGURES



## LIST OF APPENDICES

## LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| CCPC | Crisp County Power Commission |
| CCR | Coal Combustion Residuals |
| 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 |
| GWPS | Groundwater Protection Standard |
| $K_h$ | Horizontal Hydraulic Conductivity |
| MCL | Maximum Contaminant Level |
| mg/L | Milligram per Liter |
| MW | Megawatt |
| NTU | Nephelometric Turbidity Units |
| ORP | Oxidation Reduction Potential |
| PE | Professional Engineer |
| 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 |
| USEPA | United States Environmental Protection Agency |
| UTL | Upper Tolerance Limit |

## EXECUTIVE SUMMARY

Crisp County Power Commission (CCPC) has been monitoring the groundwater quality at the Plant Crisp Ash Pond (ash pond) 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 the reporting period (i.e., between January and June 2023) are summarized as follows:

- In compliance with 40 C.F.R. §257.94, a groundwater detection monitoring program was conducted between February 2017 and September 2017.

- In compliance with 40 C.F.R. §257.95(a), CCPC initiated an assessment monitoring program in March 2018. The ash pond has been monitored under the assessment monitoring program from March 2018 through the current reporting period.

- Pursuant to 40 C.F.R. §257.95 and GA EPD Rule 391-3-4-.10(6), Statistically Significant Increases above background levels were identified for the Appendix III[1] constituents set forth below where concentrations of Appendix III constituents in the downgradient monitoring wells are statistically higher than the concentrations of 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[2] constituents during the reporting period. A summary of statistically significant values of Appendix III and Appendix IV parameters is provided in the table below[3].

| Appendix III Parameter | April 2023 |
|---|---|
| *Boron* | *MW-D1, MW-D2, MW-D3* |
| *Calcium* | *MW-D1, MW-D2, MW-D3* |
| *Fluoride* | *MW-D3* |
| *Sulfate* | *MW-D1, MW-D2, MW-D3* |
| *Total Dissolved Solids (TDS)* | *MW-D1, MW-D2, MW-D3* |
| **Appendix IV Parameter[4]** | *None* |

[1] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[2] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228
[3] Boron was detected in laboratory blank samples. In addition, concentration of select detected constituents were below their laboratory reporting limit (i.e., values shown with "J" flag represent approximate concentrations) as shown in Table 4 and Table 5.
[4] A state statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, or the calculated background interwell tolerance limit. A federal SSL-related constituent is determined by comparing the confidence

- Pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule, assessment monitoring will continue at the ash pond. The next assessment report will be submitted to the GA EPD in January 2024.

intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell tolerance limit.

# 1.0 INTRODUCTION

## 1.1 Overview

Geosyntec Consultants (Geosyntec) of Kennesaw, Georgia, at the request of Crisp County Power Commission (CCPC), prepared this 2023 Semi-Annual Groundwater Monitoring Report for the ash pond located at CCPC's Plant Crisp (the Site). Plant Crisp is located in Warwick, Georgia, on the southern end of Lake Blackshear (**Figure 1**). CCPC installed a groundwater monitoring well network in February 2017 in compliance with the requirements of the 40 Code of Federal Regulations (C.F.R.) §257.91 and Section 391-3-4-.10(6) of the Georgia Environmental Protection Division (GA EPD) Coal Combustion Residuals (CCR) Rule.

A groundwater detection monitoring program was conducted between February and September 2017 in compliance with the requirements of the 40 C.F.R. §257.94. The first Annual Groundwater Monitoring Report summarizing the results of detection groundwater monitoring activities was prepared in January 2018 [Geosyntec, 2018]. In compliance with 40 C.F.R. §257.95(a), CCPC initiated an assessment monitoring program for the ash pond in March 2018. The assessment monitoring continued in 2023 by performing a semi-annual monitoring event in April 2023. The April 2023 assessment monitoring event was 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 groundwater monitoring and statistical analyses were performed consistent with the Groundwater Monitoring and Statistical Analysis Plan prepared for the ash pond in October 2017 and revised in April 2020.

The purpose of this report is to present a summary of the April 2023 groundwater assessment monitoring activities and associated laboratory and statistical analysis results. The report has been prepared to meet the semi-annual reporting requirements of GA EPD CCR Rule 391-3-4-.10(6)(c)[5].

In summary, the April 2023 sampling event detected concentrations of 40 C.F.R. §257, Appendix IV constituents, but at concentrations below their respective United States Environmental Protection Agency's (USEPA's) maximum contaminant levels (MCLs)

[5] 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.

(Appendix I to 40 C.F.R. §257)[6] or groundwater protection standard (GWPS), if MCL is not available for the constituent.

## 1.2 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 using wet sluicing method. The ash pond was constructed in the mid-1970s, as an unlined pond [CDM Smith, 2014], and started to receive sluiced ash in 1976. The coal burning and resulting ash disposal was conducted until August 2015. The coal burn unit was briefly re-activated in December 2016 to eliminate an existing small coal supply. The last burning of coal took place on March 22, 2017. The electrical generation facility, ash pond, and hydroelectric dam are located on approximately 100 acres of CCPC property near Lake Blackshear and the Flint River (**Figure 1**). The ash pond was classified as a low hazard unit during the USEPA's CCR impoundment assessment, dated February 2014 and conducted by CDM Smith [CDM Smith, 2014].

In October 2016, CCPC submitted notification of closure by removal in accordance with 40 C.F.R. §257. The original schedule for closure would have removed CCR by February 2018, however, Georgia Department of Natural Resources (DNR) CCR management regulations were issued in November 2016, DNR Rule 391-3-4-.07(5), after the initial closure plan. DNR Rule 391-3-4-.07(5) required GA EPD's approval of CCR management plans for the receiving landfill. GA EPD approved the CCR management plan for the receiving landfill on March 28, 2019. On November 19, 2018, CCPC submitted a CCR permit application for the existing impoundment and closure of the ash pond by removal in accordance with 40 C.F.R. §257.102(c) and the GA EPD CCR Rule 391-3-4-.10 and other GA EPD regulations as applicable. GA EPD issued a permit on August 17, 2020.

The ash pond closure construction started in November 2021 and continued throughout this reporting period. When this report was prepared, CCR removal activities had been recently completed.

[6] 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.

## 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 $1.44 \times 10^{-4}$ centimeter 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 June 14, 2017; the certification is maintained in the facility's Operating Record. Well construction diagrams of the monitoring wells were included in the January 2018 Annual Groundwater Monitoring Report [Geosyntec, 2018] as well as the Groundwater Monitoring and Statistical Analysis Plan [Geosyntec, 2020]. The certified groundwater monitoring well network includes one monitoring well (MW-U1) located upgradient of the ash pond, representing background groundwater conditions, and three monitoring wells (MW-D1, MW-D2, and MW-D3) located downgradient of the ash pond. The locations of the monitoring wells are shown on **Figure 1** and well construction details are provided in **Table 1**. The monitoring wells are screened in the uppermost aquifer underlying the ash pond, which occurs in the alluvium and some upper portions of the residuum.

CCPC does not currently plan to expand the certified monitoring well network for the ash pond. During the monitoring period: (i) all wells were functioning properly; (ii) there were no dry wells; and (iii) no additional well installation or abandonment was conducted. Therefore, no corrective action is needed for any of the four monitoring wells.

## 2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS RESULTS

### 2.1 Groundwater Sampling and Laboratory Analysis

The groundwater assessment monitoring event for this reporting period was conducted on April 26, 2023. The groundwater samples were collected in accordance with the USEPA Science and Ecosystem Support Division (SESD) Standard Operating Procedure (SOP No. SESDPROC-301-R4) [USEPA, Athens, Georgia, 2017]. 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 are summarized in **Table 2**[7]. The groundwater elevation data was used to prepare a potentiometric surface map, provided as **Figure 2**. Based on the potentiometric surface map, groundwater flow direction is from southeast towards northwest with a hydraulic gradient of approximately 0.012 feet per foot (ft/ft) (**Table 3**). The average horizontal groundwater flow velocity was calculated using Darcy's equation as approximately 8.9 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 SESD SOP No. SESDPROC-301-R4):

- pH ± 0.1 Standard Units (SU);
- Conductivity ± 5%;
- Dissolved oxygen ±0.2 milligrams per liter (mg/L) or ±10% change in saturation, whichever is greater;

[7] In addition to the ash pond monitoring wells (MW-D1 through MW-D3, and MW-U1), depth to groundwater level measurements and the calculated groundwater elevations in monitoring wells installed in 2022 for secondary ash areas (MW-D4 through MW-D9 and MW-U2) are presented in Table 2. Groundwater elevation data from the ash pond monitoring wells, the secondary ash areas monitoring wells, and Lake Blackshear are used to make potentiometric surface map.

- Turbidity measured less than 10 nephelometric turbidity units (NTU); and
- ORP ± 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 Test America Laboratories 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 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. Radium was analyzed at Eurofins Test America Laboratories in St. Louis, MO. Groundwater pH, also an Appendix III constituent, was measured in the field using a Horiba water quality meter.

Field duplicate sample (DUP-20) was collected from monitoring well MW-D3 for quality assurance/quality control (QA/QC). The duplicate sample was collected in laboratory-provided bottles and submitted under the same chain-of-custody as the primary samples for analysis of the same parameters by Eurofins Test America laboratories.

## 2.2 Groundwater Monitoring Results

Laboratory analytical results for Appendix III constituents from the April 2023 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 5**. Low levels of Appendix IV constituents (barium, chromium, cobalt, fluoride, molybdenum, selenium, and radium 226 and 228 combined) were detected in the downgradient monitoring wells. Similarly, low levels of barium, chromium, and lithium were detected in the background/upgradient monitoring well MW-U1. **Table 5** 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 2023 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background well. Laboratory reports are included in **Appendix B**.

The April 2023 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, 2020]. 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: boron, calcium, fluoride, sulfate, and TDS. The PL for each constituent and the list of wells with SSIs are summarized in **Table 6**. Because groundwater conditions have not returned to background, 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 reporting period. The Sanitas™ statistical calculations and time-series graphs for each constituent are provided in **Appendix C**.

## 5.0 FUTURE GROUNDWATER MONITORING PROGRAM

Data collected during the assessment monitoring event 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 semi-annual groundwater monitoring report will be submitted by January 31, 2024 pursuant to the GA EPD CCR Rule 391-3-4-.10(6)(c).

The ash pond's restoration activities are anticipated to be complete in 2023. Assuming the concentrations of the Appendix IV constituents continue to remain below their respective GWPS, CCPC will revisit and update the groundwater monitoring timeline in accordance with 40 C.F.R. §257.102(c), GA EPD CCR Rule 391-3-4-.10, and the requirements listed in the ash pond's CCR handling permit.

## 6.0 REFERENCES

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# TABLES

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

| Well ID | Hydraulic Location | Installation Date | Well Depth (ft BTOC) | Easting[(1)] | Northing[(1)] | TOC Elevation[(2)] (ft MSL) | Screen Interval Elevation[(2)] (ft MSL) |
|---|---|---|---|---|---|---|---|
| **MW-D1** | Downgradient | 2/22/2017 | 22.9 | 2365315.12 | 670708.47 | 241.77 | 218.85 - 228.85 |
| **MW-D2** | Downgradient | 2/21/2017 | 22.6 | 2365308.73 | 671291.61 | 232.66 | 209.64 - 219.64 |
| **MW-D3** | Downgradient | 2/22/2017 | 22.7 | 2365715.53 | 671291.07 | 233.77 | 210.52 - 220.52 |
| **MW-U1** | Upgradient | 2/23/2017 | 37.4 | 2366420.55 | 669996.79 | 249.52 | 212.78 - 222.78 |

**Notes:**
ft = feet
MSL = above mean sea level
TOC = Top of casing
BTOC = Below top of casing
The easting, northing, and TOC elevations were obtained from a revised survey performed by J.B. Faircloth & Associates, P.C. on 26 November 2019.
(1): The easting and northing coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
(2): Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

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

| Well ID | Monitoring CCR Unit | TOC Elevation (ft MSL)[1] | Date: 4/26/2023 | |
|---|---|---|---|---|
| | | | Depth to Groundwater (ft BTOC) | Groundwater Elevation (ft MSL) |
| MW-D1 | Ash Pond | 241.77 | 15.75 | 226.02 |
| MW-D2 | Ash Pond | 232.66 | 12.63 | 220.03 |
| MW-D3 | Ash Pond | 233.78 | 7.83 | 225.95 |
| MW-U1 | Ash Pond | 249.52 | 12.10 | 237.42 |
| MW-D4 | Secondary Ash Area | 246.51 | 11.00 | 235.51 |
| MW-D5 | Secondary Ash Area | 241.16 | 8.90 | 232.26 |
| MW-D6 | Secondary Ash Area | 252.63 | 22.50 | 230.13 |
| MW-D7 | Secondary Ash Area | 230.18 | 6.64 | 223.54 |
| MW-D8 | Secondary Ash Area | 226.76 | 6.52 | 220.24 |
| MW-D9 | Secondary Ash Area | 221.42 | 6.95 | 214.47 |
| MW-U2 | Secondary Ash Area | 248.79 | 11.24 | 237.55 |
| Lake Blackshear | -- | -- | -- | 236.95[2] |

**Notes:**
ft = feet
MSL = mean sea level
TOC = Top of casing
BTOC = Below top of casing
-- : not applicable
[1]: Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).
[2]: Surface water elevation on 4/26/2023 at 12:00 PM.

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

| Location | Hydraulic Gradient (4/26/2023) | | | | Groundwater Flow Velocity (4/26/2023) | | |
|---|---|---|---|---|---|---|---|
| | $h_1$ (ft) | $h_2$ (ft) | $\Delta l$ (ft) | $\Delta h/\Delta l$ (ft/ft) | $K_h$(ft/day) | $\eta e$ | V (ft/year)[1] |
| Between MW-U1 ($h_1$) and MW-D9 ($h_2$) | 237.42 | 214.47 | 2,075 | 0.011 | 0.41 | 0.20 | 8.3 |
| Between MW-D4 ($h_1$) and MW-D9 ($h_2$) | 235.51 | 214.47 | 1,690 | 0.012 | 0.41 | 0.20 | 9.3 |
| Between Lake Blackshear ($h_1$) and MW-D3 ($h_2$) | 236.95 | 225.95 | 905 | 0.012 | 0.41 | 0.20 | 9.1 |
| **Average** | **0.012** | | | | **8.9** | | |

**Notes:**

ft = feet

ft/day = feet per day

ft/ft = feet per foot

ft/year = feet per year

$h_1$ and $h_2$ = groundwater elevation for upgradient and downgradient locations, respectively.

$\Delta h/\Delta l$ = hydraulic gradient

$K_h$ = hydraulic conductivity geometric mean of 0.41 ft/day estimated using slug testing in ash pond monitoring wells.

$\Delta l$ = distance between $h_1$ and $h_2$ locations.

$\eta e$ = effective porosity (estimated based on fine-grained sand aquifer) (Kresic, 2007)

V = groundwater flow velocity

(1) Groundwater flow velocity equation: $V = [K_h * (\Delta h/\Delta l)] / \eta e$

**Table 4. Appendix III Analytical Data Summary - Sampling Performed on 26 April 2023**
**Crisp County Power Commission**
**Plant Crisp Ash Pond**

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

| Constituent | Unit | MCL[1] | MDL[2] | Upgradient Well ID | Downgradient Well ID | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | MW-U1 | MW-D1 | MW-D2 | MW-D3 | |
| | | | | | | | MW-D3 | DUP-20 |
| **Boron** | mg/L | N/A | 0.0012 | <0.05 (0.02 J B) | 0.1 B | 0.12 B | 0.17 B | 0.17 B |
| **Calcium** | mg/L | N/A | 0.13 | 37 | 68 | 130 | 87 | 89 |
| **Chloride** | mg/L | N/A | 1.4 | <2.0 (1.7 J) | 4.1 | 3.0 | 2.6 | 2.6 |
| **Fluoride** | mg/L | 4 | 0.070 | ND | <0.1 (0.083 J) | ND | 0.12 | 0.12 |
| **Sulfate** | mg/L | N/A | 1.4 | <5.0 (2.0 J) | 26 | 14 | 28 | 28 |
| **pH[3]** | SU | N/A | -- | 7.82 | 7.09 | 6.78 | 6.56 | 6.56 |
| **Total Dissolved Solids** | mg/L | N/A | 5.0 | 110 | 200 | 370 | 270 | 260 |

**Notes:**
mg/L = milligrams per liter.
MCL = Maximum Contaminant Level
MDL = Method Detection Limit
S.U. = Standard Unit.
N/A = not applicable because the constituent does not have an MCL.
J = result 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 the blank and sample.
-- = not applicable
DUP-20 is a duplicate sample collected from MW-D3.
[1]: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and
[2]: MDL indicates minimum detection limit, which is the minimum concentration of analyte that can be measured and reported.
[3]: The pH value was recorded at the time of sample collection in the field.

**Table 5. Appendix IV Analytical Data Summary - Sampling Performed on 26 April 2023**
**Crisp County Power Commission**
**Plant Crisp Ash Pond**

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

| Constituent | Unit | MCL[1] | USEPA's Health-Based Level[2] | MDL | Upgradient Well ID | Downgradient Well ID | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | MW-U1 | MW-D1 | MW-D2 | MW-D3 | |
| | | | | | | | | MW-D3 | DUP-20 |
| **Antimony** | mg/L | 0.006 | N/A | 0.0015 | ND | ND | ND | ND | ND |
| **Arsenic** | mg/L | 0.01 | N/A | 0.0012 | ND | ND | ND | ND | ND |
| **Barium** | mg/L | 2 | N/A | 0.00070 | 0.0031 | 0.016 | 0.19 | 0.060 | 0.060 |
| **Beryllium** | mg/L | 0.004 | N/A | 0.00092 | ND | ND | ND | ND | ND |
| **Cadmium** | mg/L | 0.005 | N/A | 0.00065 | ND | ND | ND | ND | ND |
| **Chromium** | mg/L | 0.1[3] | N/A | 0.0010 | <0.0025 (0.0021 J) | <0.0025 (0.0018 J) | ND | ND | ND |
| **Cobalt** | mg/L | N/A | 0.006 | 0.00056 | ND | <0.0025 (0.0016 J) | ND | ND | ND |
| **Fluoride** | mg/L | 4 | N/A | 0.070 | ND | <0.1 (0.083 J) | ND | 0.12 | 0.12 |
| **Lead** | mg/L | 0.015[4] | N/A | 0.00081 | ND | ND | ND | ND | ND |
| **Lithium** | mg/L | N/A | 0.04 | 0.0049 | 0.0058 | ND | ND | ND | ND |
| **Mercury** | mg/L | 0.002[5] | N/A | 0.00015 | ND | ND | ND | ND | ND |
| **Molybdenum** | mg/L | N/A | 0.1 | 0.0013 | ND | ND | ND | <0.01 (0.0052 J) | <0.01 (0.0053 J) |
| **Radium 226 and 228 Combined** | pCi/L | 5 | N/A | --[6] | 1.39 U | 1.07 U | 1.090 | 0.555 | -0.111 |
| **Selenium** | mg/L | 0.05 | N/A | 0.00082 | ND | <0.0013 (0.00083 J) | ND | 0.0015 | ND |
| **Thallium** | mg/L | 0.002 | N/A | 0.00046 | ND | ND | ND | ND | ND |

**Notes:**

mg/L = milligrams per liter.

pCi/L = picocuries per liter.

ND = the constituent was not detected above the analytical method detection limit (MDL).

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

U = result is less than the sample detection limit.

N/A = not applicable for the constituent.

[1]: MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.

[2]: USEPA's health-based level as Groundwater Protection Standard (40 CFR §257.95 (h)(2)).

[3]: MCL value for total chromium.

[4]: Lead Treatment Technology Action Level is 0.015 mg/L.

[5]: Value for inorganic mercury.

[6]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 1.72 pCi/L for MW-U1, 1.42 pCi/L for MW-D1, 1.06 pCi/L for MW-D2, 0.534 pCi/L for MW-D3, and 0.619 pCi/L for DUP-20.

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

| Appendix III to Part 257 Constituents for Detection Monitoring | Prediction Limit[1] | Wells with SSI (April 2023 Monitoring) |
|---|---|---|
| Boron (mg/L) | 0.05 | MW-D1, MW-D2, MW-D3 |
| Calcium (mg/L) | 39.53 | MW-D1, MW-D2. MW-D3 |
| Chloride (mg/L) | 9.8 | None |
| Field pH (SU) | <5.789 or >9.355 | None |
| Fluoride (mg/L) | 0.1006 | MW-D3 |
| Sulfate (mg/L) | 8.867 | MW-D1, MW-D2, MW-D3 |
| Total Dissolved Solids (TDS) (mg/L) | 142.5 | MW-D1, MW-D2, MW-D3 |

**Notes:**

mg/L = milligrams per liter.

SSI = Statistically Significant Increases compared to background.

SU = Standard Unit

[1]: The prediction limit values were calculated using data collected from the background well MW-U1 between February 2017 and April 2023. The April 2023 concentrations from MW-D1, MW-D2, and MW-D3 were compared to the predication limit values.

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

| 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-D1 | 14 | 14 | 100% | <0.0005 | <0.0025 | | 0.006 | 0.006 |
| | MW-D2 | 14 | 14 | 100% | <0.0005 | <0.0025 | | | |
| | MW-D3 | 14 | 14 | 100% | <0.0005 | <0.0025 | | | |
| | MW-U1 | 15 | 15 | 100% | <0.0005 | <0.0025 | 0.00125 | | |
| Arsenic [mg/L] | MW-D1 | 20 | 20 | 100% | <0.00025 | <0.0025 | | 0.01 | 0.01 |
| | MW-D2 | 20 | 16 | 80% | 0.00027 (B) | <0.0025 | | | |
| | MW-D3 | 20 | 6 | 30% | 0.00048 (J) | <0.0025 | | | |
| | MW-U1 | 21 | 17 | 81% | 0.00015 (JB) | <0.0025 | 0.0019 | | |
| Barium [mg/L] | MW-D1 | 20 | 0 | 0% | 0.0095 | 0.027 | | 2 | 2 |
| | MW-D2 | 20 | 0 | 0% | 0.087 | 0.190 | | | |
| | MW-D3 | 20 | 0 | 0% | 0.061 | 0.230 | | | |
| | MW-U1 | 21 | 0 | 0% | 0.0018 | 0.0062 | 0.0062 | | |
| Beryllium [mg/L] | MW-D1 | 14 | 14 | 100% | <0.0004 | <0.0025 | | 0.004 | 0.004 |
| | MW-D2 | 14 | 14 | 100% | <0.0004 | <0.0025 | | | |
| | MW-D3 | 14 | 14 | 100% | <0.0004 | <0.0025 | | | |
| | MW-U1 | 15 | 15 | 100% | <0.0004 | <0.0025 | 0.001 | | |
| Cadmium [mg/L] | MW-D1 | 15 | 15 | 100% | <0.0002 | <0.0025 | | 0.005 | 0.005 |
| | MW-D2 | 15 | 14 | 93% | 0.000075 (J) | <0.0025 | | | |
| | MW-D3 | 15 | 14 | 93% | 0.000071 (J) | <0.0025 | | | |
| | MW-U1 | 16 | 16 | 100% | <0.0002 | <0.0025 | 0.0005 | | |
| Chromium [mg/L] | MW-D1 | 18 | 15 | 83% | <0.0005 | 0.0034 | | 0.1 | 0.1 |
| | MW-D2 | 18 | 14 | 78% | <0.0005 | 0.0038 | | | |
| | MW-D3 | 18 | 15 | 83% | <0.0005 | 0.0037 (J) | | | |
| | MW-U1 | 19 | 1 | 5% | 0.0011 | 0.0051 | 0.0051 | | |
| Cobalt [mg/L] | MW-D1 | 18 | 17 | 94% | <0.0005 | <0.0025 | | 0.006 | 0.006 |
| | MW-D2 | 18 | 16 | 89% | 0.00047 (J) | <0.0025 | | | |
| | MW-D3 | 18 | 3 | 17% | 0.00035 (J) | <0.0025 | | | |
| | MW-U1 | 19 | 19 | 100% | <0.0005 | <0.0025 | 0.00125 | | |
| Fluoride [mg/L] | MW-D1 | 20 | 0 | 0% | 0.040 | 0.180 | | 4 | 4 |
| | MW-D2 | 20 | 2 | 10% | 0.040 | 0.12 (B) | | | |
| | MW-D3 | 20 | 0 | 0% | 0.060 | 0.200 (F1) | | | |
| | MW-U1 | 21 | 3 | 14% | 0.040 | 0.130 | 0.1285 | | |
| Lead [mg/L] | MW-D1 | 14 | 13 | 93% | <0.00025 | <0.0013 | | 0.015 | 0.0015 |
| | MW-D2 | 14 | 12 | 86% | <0.00025 | <0.0013 | | | |
| | MW-D3 | 14 | 14 | 100% | <0.00025 | <0.0013 | | | |
| | MW-U1 | 15 | 14 | 93% | <0.00025 | <0.0013 | 0.00065 | | |
| Lithium [mg/L] | MW-D1 | 16 | 15 | 94% | <0.0005 | <0.005 | | 0.04 | 0.04 |
| | MW-D2 | 16 | 14 | 88% | <0.0005 | <0.005 | | | |
| | MW-D3 | 16 | 13 | 81% | 0.00048 (J) | <0.005 | | | |
| | MW-U1 | 17 | 15 | 88% | 0.00034 (J) | 0.006 | 0.0058 | | |
| Mercury [mg/L] | MW-D1 | 14 | 13 | 93% | 0.000077 (JB) | <0.0002 | | 0.002 | 0.002 |
| | MW-D2 | 14 | 12 | 86% | 0.00011 (JB) | <0.0002 | | | |
| | MW-D3 | 14 | 13 | 93% | 0.00011 (JB) | <0.0002 | | | |
| | MW-U1 | 15 | 14 | 93% | 0.000099 (JB) | <0.0002 | 0.0001 | | |
| Molybdenum [mg/L] | MW-D1 | 18 | 18 | 100% | <0.002 | <0.02 | | 0.10 | 0.10 |
| | MW-D2 | 18 | 15 | 83% | 0.0012 (J) | <0.02 | | | |
| | MW-D3 | 18 | 4 | 22% | 0.0017 (J) | <0.01 | | | |
| | MW-U1 | 19 | 19 | 100% | <0.002 | <0.02 | 0.005 | | |
| Radium 226 and 228 228 Combined [pCi/L] | MW-D1 | 20 | 5 | 25% | 0.0994 | 0.833 | | 5 | 5 |
| | MW-D2 | 20 | 5 | 25% | 0.0139 | 1.280 | | | |
| | MW-D3 | 20 | 6 | 30% | 0.0501 | 1.280 | | | |
| | MW-U1 | 20 | 6 | 30% | 0.000 | 0.860 | 0.86 | | |
| Selenium [mg/L] | MW-D1 | 16 | 14 | 88% | <0.00025 | <0.0013 | | 0.05 | 0.05 |
| | MW-D2 | 16 | 13 | 81% | <0.00025 | <0.0013 | | | |
| | MW-D3 | 16 | 11 | 69% | 0.00021 (J) | 0.0028 | | | |
| | MW-U1 | 17 | 10 | 59% | 0.00039 | <0.0013 | 0.00076 | | |
| Thallium [mg/L] | MW-D1 | 18 | 18 | 100% | <0.0001 | <0.0005 | | 0.002 | 0.002 |
| | MW-D2 | 18 | 8 | 44% | 0.000085 (J) | <0.0005 | | | |
| | MW-D3 | 18 | 4 | 22% | 0.000095 (J) | <0.0005 | | | |
| | MW-U1 | 19 | 19 | 100% | <0.0001 | <0.0005 | 0.00025 | | |

**Notes:**
mg/L = milligrams per liter
pCi/L = picocuries per liter
Highlighted cells show the background well (MW-U1).
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 Ash Pond**

| 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 April 2023 Monitoring Period | Concentrations in Downgradient Well Show Statistically Significant Level (SSL) Above GWPS? |
|---|---|---|---|---|
| Antimony [mg/L] | MW-U1 | 0.006 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Arsenic [mg/L] | MW-U1 | 0.01 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Barium [mg/L] | MW-U1 | 2 | Background Well | |
| | MW-D1 | | 0.016 | No |
| | MW-D2 | | 0.19 | No |
| | MW-D3 | | 0.060 | No |
| Beryllium [mg/L] | MW-U1 | 0.004 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Cadmium [mg/L] | MW-U1 | 0.005 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Chromium [mg/L] | MW-U1 | 0.1 | Background Well | |
| | MW-D1 | | 0.0018 (J) | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Cobalt [mg/L] | MW-U1 | 0.0060 | Background Well | |
| | MW-D1 | | 0.0016 (J) | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Fluoride [mg/L] | MW-U1 | 4 | Background Well | |
| | MW-D1 | | 0.083 (J) | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | 0.120 | No |
| Lead [mg/L] | MW-U1 | 0.0015 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Lithium [mg/L] | MW-U1 | 0.0400 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Mercury [mg/L] | MW-U1 | 0.002 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |
| Molybdenum [mg/L] | MW-U1 | 0.10 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | 0.0052 (J) | No |
| Radium 226 and 228 228 Combined [pCi/L] | MW-U1 | 5 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | 1.0900 | No |
| | MW-D3 | | 0.5550 | No |
| Selenium [mg/L] | MW-U1 | 0.05 | Background Well | |
| | MW-D1 | | 0.00083 (J) | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | 0.0015 | No |
| Thallium [mg/L] | MW-U1 | 0.002 | Background Well | |
| | MW-D1 | | ND | No |
| | MW-D2 | | ND | No |
| | MW-D3 | | ND | No |

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

# FIGURES


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


**Legend**

- Groundwater Monitoring Well (Ash Pond)
- Ash Pond Approximate Boundary
- Approximate CCPC Property Boundary

0 250 500 1,000 Feet

# Groundwater Monitoring Well Location Map

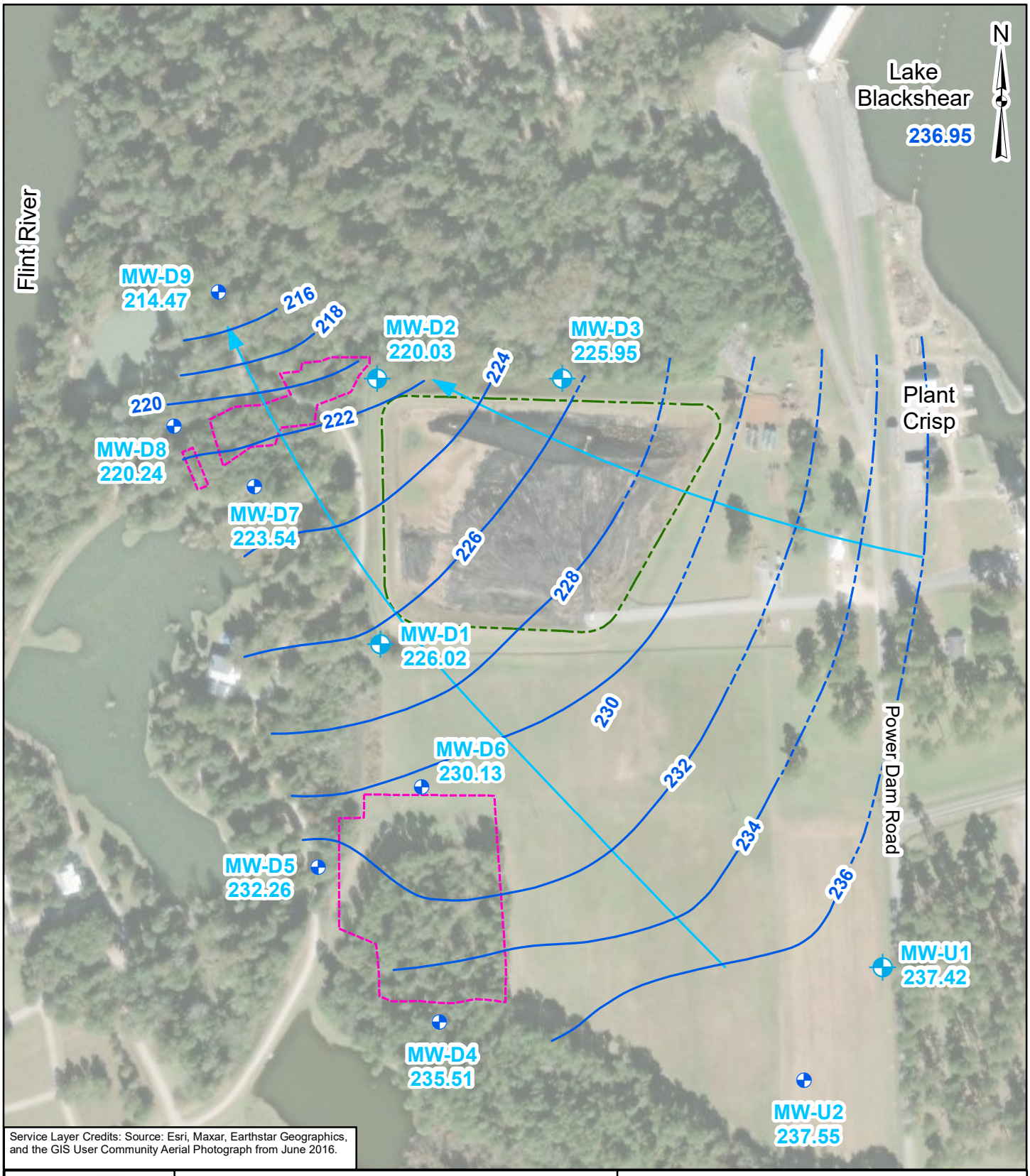
Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants

KENNESAW, GA

| | |
|---|---|
| DATE: | JULY 2023 |
| PROJECT NO. | GW6152 |
| DOCUMENT NO. | GA 230235 |
| FILE NO. | FIGURE 1 GROUNDWATER MONITORING WELL LOCATION MAP.MXD |
| FIGURE NO. | 1 |

N:\Crisp County\GIS\MXD\2023\Semi_Annual_Monitoring_Report\GW Monitoring Well Location Map.mxd 7/8/2023 9:45:47 AM DY




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

DAWIT D. YIFRU
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 001965

Dawit Yifru
PG001965

**Legend**

- Monitoring Well (Ash Pond)
- Monitoring Well (Secondary Ash Areas)
- Groundwater Elevation Contour - 26 April 2023 (ft, MSL) (dashed where inferred)
- Groundwater Flow Direction
- Secondary Ash Areas Approximate Boundary
- Ash Pond Approximate Boundary

0 150 300 Feet

# Potentiometric Surface Map (April 2023)

Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants
KENNESAW, GA

| | |
|---|---|
| DATE: | JULY 2023 |
| PROJECT NO. | GW6152 |
| DOCUMENT NO. | GA 230235 |
| FILE NO. | POTENTIOMETRIC SURFACE MAP.MXD |
| FIGURE NO. | 2 |

N:\Crisp County\GIS\MXD\2023\Semi_Annual_Monitoring_Report\Potentiometric Surface Map DY.mxd 7/8/2023 10:09:19 AM DY

# APPENDIX A

# Field Groundwater Sampling Forms

## Water Level Measurement Form

| | | | |
|---|---|---|---|
| **Site Name:** | Crisp County Power | **Sampling Person:** | |
| **Location:** | Warwick, Georgia | **Field Conditions:** | |
| **Date:** | 04 / 26 /2023 | | |

| Well ID | Time | TOC ELevation | Depth to Water (ft) | Well Depth (ft) | GW Elevation | Field Observations |
|---|---|---|---|---|---|---|
| MW-U1 | 1033 | 249.52 | 12.1 | | | |
| MW-U2 | 1029 | 248.79 | 11.24 | | | |
| MW-D1 | 9:50 | 241.77 | 15.75 | | | |
| MW-D2 | 10:00 | 232.66 | 12.63 | | | |
| MW-D3 | 10:24 | 233.78 | 7.83 | | | |
| MW-D4 | 10:16 | 233.78 | 11.00 | | | |
| MW-D5 | 9:56 | 241.16 | 8.90 | | | |
| MW-D6 | 9:53 | 252.63 | 22.5 | | | |
| MW-D7 | 10:05 | 230.18 | 6.104 | | | |
| MW-D8 | 10:08 | 226.76 | 6.52 | | | |
| MW-D9 | 10:10 | 221.42 | 6.95 | | | |
| END OF DAY WATER LEVELS | | | | | | |
| MW-U1 | | 249.52 | | | | |
| MW-u2 | | 248.79 | | | | |
| MW-D1 | | 241.77 | | | | |
| MW-D2 | | 232.66 | | | | |
| MW-D3 | | 233.78 | | | | |
| MW-D4 | | 233.78 | | | | |
| MW-D5 | | 241.16 | | | | |
| MW-D6 | | 252.63 | | | | |
| MW-D7 | | 230.18 | | | | |
| MW-D8 | | 226.76 | | | | |
| MW-D9 | | 221.42 | | | | |

# GROUNDWATER SAMPLING LOG

| SITE NAME: **CRISP COUNTY POWER COMMISSION** | SITE LOCATION: **961 Power Dam Road, Warwick, GA 31796** |
|---|---|
| WELL NO: MW-U1 | SAMPLE ID: MW-U1 | DATE: 4/26/23 |

## PURGING DATA

| WELL DIAMETER (inches): **2** | TUBING DIAMETER (inches): **0.25** | WELL SCREEN INTERVAL DEPTH: 23.75 feet to 33.75 feet | STATIC DEPTH TO WATER (feet): 12.05 | PURGE PUMP TYPE OR BAILER: **PP** |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = ( 37.3 feet – 12.05 feet) X **0.16** gallons/foot = 4.04 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): 28.75 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: 11:19 | PURGING ENDED AT: 11:52 | TOTAL VOLUME PURGED (gallons): 1.04 |
|---|---|---|---|---|

| TIME | VOLUME PURGED ~~(gallons)~~ mL | CUMUL. VOLUME PURGED ~~(gallons)~~ mL | PURGE RATE ~~(gpm)~~ mL/min | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. mS/cm (circle units) ~~µmhos/cm or µS/cm~~ | DISSOLVED OXYGEN (circle units) (mg/L) or % saturation | TURBIDITY (NTUs) | ORP (mv) | COLOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1126 | 1,120 | 1,120 | 160 | 12.34 | 7.42 | 22.06 | 0.179 | 4.92 | 0.92 | 194 | clear |
| 1131 | ~~Bad~~ | ~~Bad~~ 1,120 | 160 | 12.60 | 7.66 | 21.83 | 0.177 | 4.89 | 0.72 | 188 | clear |
| 1136 | 500 | 2,420 | 100 | 12.30 | 7.69 | 21.84 | 0.177 | 4.89 | 0.87 | 189 | clear |
| 1141 | 500 | 2,920 | 100 | 12.31 | 7.77 | 21.92 | 0.178 | 4.92 | 0.77 | 191 | clear |
| 1146 | 500 | 3,420 | 100 | 12.31 | 7.78 | 22.24 | 0.177 | 4.78 | 0.71 | 192 | clear |
| 1151 | 500 | 3920 | 100 | 12.32 | 7.82 | 22.38 | 0.177 | 4.77 | 0.74 | 193 | clear |
| | | | | | | | | | | | |
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**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: Elisabeth McDonnell | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 11:52 | SAMPLING ENDED AT: 12:19 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 28.75 | TUBING MATERIAL CODE: **LDPE** | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N(replaced) | DUPLICATE: Y (N) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| | 1 | HDPE | 1.9L | HNO3 | ---- | 7.82 | 9315, 9320, Ra226, Ra228 | APP | 250 |
| | 1 | HDPE | 1.0L | NONE | ---- | 7.82 | SM4500, 2540C | APP | 250 |
| | 1 | HDPE | 0.25L | HNO3 | ---- | 7.82 | 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; **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: CRISP COUNTY POWER COMMISSION | SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796 |
|---|---|
| WELL NO: MW-D1 | SAMPLE ID: MW-D1 |
| DATE: 4/26/23 | |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: 9.5 feet to 14.5 feet | STATIC DEPTH TO WATER (feet): 15.75 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = ( 22.8 feet – 15.75 feet) X 0.16 gallons/foot = 1.128 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): 14.5 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: 12:51 | PURGING ENDED AT: 13:37 | TOTAL VOLUME PURGED (gallons): 2.16 |
|---|---|---|---|---|

| TIME | VOLUME PURGED ~~(gallons)~~ ml | CUMUL. VOLUME PURGED ~~(gallons)~~ ml | ml/min 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1300 | 1890 | 1890 | 210 | 16.15 | 7.20 | 21.96 | .328 | 7.89 | 2.52 | 190 | clear |
| 1305 | 1050 | 2940 | 210 | 16.15 | 6.95 | 22.28 | .336 | 6.43 | 1.62 | 199 | clear |
| 1310 | 1050 | 3990 | 210 | 16.15 | 6.85 | 22.74 | .333 | 5.99 | 1.84 | 203 | clear |
| 1315 | 1050 | 5040 | 210 | 16.14 | 6.85 | 22.98 | .315 | 6.12 | 1.67 | 203 | clear |
| 1320 | 1050 | 6090 | 210 | 16.15 | 6.99 | 23.33 | .319 | 6.04 | 1.59 | 196 | clear |
| 1325 | 1050 | 7140 | 210 | 16.15 | 7.08 | 23.49 | .315 | 6.16 | 1.39 | 191 | clear |
| 1330 | 1050 | 8190 | 210 | 16.15 | ~~7.08~~ 7.09 | 23.69 | .316 | 6.11 | 1.72 | 189 | clear |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**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: Elisabeth McDonnell | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 13:33 | SAMPLING ENDED AT: 12:20 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 14.5 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: Y (N) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| | 1 | HDPE | 1.9L | HNO3 | ---- | 7.09 | 9315, 9320, Ra226, Ra228 | APP | 250 |
| | 1 | HDPE | 1.0L | NONE | ---- | 7.09 | SM4500, 2540C | APP | 250 |
| | 1 | HDPE | 0.25L | HNO3 | ---- | 7.09 | 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; **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

pg 1 of 2

| SITE NAME: CRISP COUNTY POWER COMMISSION | SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796 |
|---|---|
| WELL NO: MW-D2 | SAMPLE ID: MW-D2 |
| DATE: 4/26/23 | |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: 9.75 feet to 9.75 feet | STATIC DEPTH TO WATER (feet): 12.67 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = ( 22.55 feet – 12.67 feet) X 0.16 gallons/foot = 1.58 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 15.03 feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.75 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: 0008 | PURGING ENDED AT: 1651 | TOTAL VOLUME PURGED (gallons): 4.33 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) ~~ml~~ | CUMUL. VOLUME PURGED (gallons) ~~ml~~ | PURGE RATE (gpm) ~~ml/min~~ | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | ~~mS/cm~~ COND. (circle units) ~~µmhos/cm~~ ~~or µS/cm~~ | DISSOLVED OXYGEN (circle units) (mg/L) or % saturation | TURBIDITY (NTUs) | ORP (mv) | COLOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1530 | 5,400 | 5,400 | 200 | 13.70 | 6.54 | 20.33 | .514 | 4.69 | .99 | 178 | clear |
| 1535 | 1000 | 6,400 | 200 | 13.87 | 6.53 | 20.29 | .531 | 3.77 | .64 | 174 | clear |
| 1540 | 1000 | 7,400 | 200 | 14.00 | 6.50 | 20.31 | .540 | 3.12 | .49 | 171 | clear |
| 1545 | 750 | 8,150 | 150 | 14.05 | 6.56 | 20.47 | .564 | 2.80 | .52 | 161 | clear |
| 1550 | 750 | 8,900 | 150 | 14.10 | 6.54 | 20.45 | .568 | 2.57 | .37 | 156 | clear |
| 1555 | 750 | 9,650 | 150 | 14.15 | 6.54 | 20.38 | .571 | 2.03 | .42 | 138 | clear |
| 1600 | 750 | 10,400 | 150 | 14.20 | 6.54 | 20.35 | .576 | 1.76 | .41 | 122 | clear |
| 1605 | 600 | 11,000 | 120 | 14.20 | 6.61 | 20.05 | .597 | 1.48 | .34 | 85 | clear |
| 1610 | 600 | 11,600 | 120 | 14.20 | 6.64 | 20.67 | .601 | 1.31 | .39 | 71 | clear |
| 1615 | 600 | 12,200 | 120 | 14.20 | 6.65 | 20.61 | .603 | 1.03 | .62 | 57 | clear |

**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: Elisabetn McDonnell | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1651 | SAMPLING ENDED AT: 1717 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 14.75 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: Y (N) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| | 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:**

1. Well Sign Present: ✓ Yes _____ No
2. Well Access: walking only – 30 yards off road
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; **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: CRISP COUNTY POWER COMMISSION | SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796 | |
|---|---|---|
| WELL NO: MW-D2 | SAMPLE ID: MW-D2 | DATE: 4/26/23 |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 12.67 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = ( 22.55 feet – 12.67 feet) X 0.16 gallons/foot = 1.58 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): 15.00 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: | PURGING ENDED AT: | TOTAL VOLUME PURGED (gallons): 4.33 |
|---|---|---|---|---|

| TIME | VOLUME PURGED ~~(gallons)~~ ml | CUMUL. VOLUME PURGED ~~(gallons)~~ ml | ml/min PURGE RATE ~~(gpm)~~ | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | ~~µmhos/cm or µS/cm~~ ms/cm COND. (circle units) | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | ORP (mv) | COLOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1620 | 600 | 12,800 | ~~120~~ | 14.21 | 6.67 | 20.58 | .605 | .93 | .39 | 39 | clear |
| 1625 | 600 | 13,400 | 120 | 14.20 | 6.68 | 20.59 | .605 | .67 | .33 | 29 | clear |
| 1630 | 600 | 14,000 | 120 | 14.20 | 6.68 | 20.56 | .605 | .47 | .45 | 20 | clear |
| 1635 | 600 | 14,600 | 120 | 14.22 | 6.72 | 20.55 | .605 | .24 | .39 | 11 | clear |
| 1640 | 600 | 15,200 | 120 | 14.20 | 6.71 | 20.41 | .605 | .07 | .41 | 8 | clear |
| 1645 | 600 | 15,800 | 120 | 14.20 | 6.70 | 20.39 | .605 | 0.00 | .41 | 5 | clear |
| 1650 | 600 | 16,400 | 120 | 14.20 | 6.78 | 20.98 | .594 | 0.00 | .37 | 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: Elisabeth McDonnell | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 16:51 | SAMPLING ENDED AT: 17:17 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 15.00 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: Y (N) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| | 1 | HDPE | 1.9L | HNO3 | ---- | 6.78 | 9315, 9320, Ra226, Ra228 | APP | 250 |
| | 1 | HDPE | 1.0L | NONE | ---- | 6.78 | SM4500, 2540C | APP | 250 |
| | 1 | HDPE | 0.25L | HNO3 | ---- | 6.78 | 6020, 7470A | APP | 250 |
| | | | | | | | | | |

**FIELD SAMPLING CONDITIONS:**

1. Well Sign Present: ✓ Yes _____ No
2. Well Access: Walking only – 30 yards off road
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; **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: CRISP COUNTY POWER COMMISSION | SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796 | |
|---|---|---|
| WELL NO: MW-D3 | SAMPLE ID: MW-D3 | DATE: 4/27/23 |

## PURGING DATA

| WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: 9.5 feet to 19.5 feet | STATIC DEPTH TO WATER (feet): 7.84 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = ( 22.75 feet – 7.84 feet) X 0.16 gallons/foot = 2.39 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): 14.5 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.5 | PURGING INITIATED AT: 0817 | PURGING ENDED AT: 0848 | TOTAL VOLUME PURGED (gallons): 1.23 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (mL/min) (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0820 | 1350 | 1350 | 150 | 8.96 | 6.41 | 19.23 | 0.338 | 0.98 | 0.66 | 360 | clear |
| 0831 | 750 | 2100 | 150 | 9.13 | 6.45 | 19.20 | 0.336 | 0.82 | 0.95 | 358 | " |
| 0836 | 750 | 2850 | 150 | 9.20 | 6.51 | 19.14 | 0.334 | 0.78 | 0.55 | 357 | " |
| 0841 | 750 | 3600 | 150 | 9.24 | 6.56 | 19.14 | 0.332 | 0.71 | 0.60 | 354 | " |
| 0846 | 750 | 4350 | 150 | 9.27 | 6.56 | 19.19 | 0.331 | 0.68 | 0.34 | 351 | " |
| 0848 | 300 | 4650 | 150 – grab sample | | | | | | | | " |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**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: Tristan O | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0848 | SAMPLING ENDED AT: 0935 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 14.5 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y N (replaced) | DUPLICATE: (Y) N | DUP-20 |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| | 1 | HDPE | 1.9L | HNO3 | ---- | <2 | 9315, 9320, Ra226, Ra228 | APP | 250 150 |
| | 1 | HDPE | 1.0L | NONE | ---- | <2 | SM4500, 2540C | APP | 250 150 |
| | 1 | HDPE | 0.25L | HNO3 | ---- | <2 | 6020, 7470A | APP | 250 150 |
| | | | | | | | | | |

**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; **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

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/7/2023 2:48:24 PM

## JOB DESCRIPTION

Crisp County Power

## JOB NUMBER

400-236902-3

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.



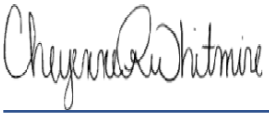
myEOL

## 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



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

# Table of Contents

## Job ID: 400-236902-3

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-236902-3**

**Receipt**
The samples were received on 4/29/2023 7:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4º C, 2.3º C, 3.6º C and 3.7º C.

**Metals**
Method 6020: The post digestion spike % recovery for Antimony associated with batch 400-625600 was outside of control limits. The associated sample is: (400-236902-C-1-D PDS ^5).

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-623914 and analytical batch 400-625600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020: The method blank for preparation batch 400-623914 and analytical batch 400-625600 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The ICV for batch 400-625706 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

**General Chemistry**
Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-624976 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-236929-A-2), (400-236929-A-2 MS) and (400-236929-A-2 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-623940 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-235966-B-1), (400-235966-B-1 MS) and (400-235966-B-1 MSD). Elevated reporting limits (RLs) are provided.

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

# Detection Summary

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

Job ID: 400-236902-3

## Client Sample ID: MW-U1-20230426 — Lab Sample ID: 400-236902-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Barium | 0.0031 | | 0.0025 | 0.00070 | mg/L | 5 | | 6020 | Total Recoverable |
| Boron | 0.020 | J B | 0.050 | 0.0012 | mg/L | 5 | | 6020 | Total Recoverable |
| Calcium | 37 | | 0.25 | 0.13 | mg/L | 5 | | 6020 | Total Recoverable |
| Chromium | 0.0021 | J | 0.0025 | 0.0010 | mg/L | 5 | | 6020 | Total Recoverable |
| Lithium | 0.0058 | | 0.0025 | 0.0049 | mg/L | 5 | | 6020 | Total Recoverable |
| Total Dissolved Solids | 110 | | 5.0 | 5.0 | mg/L | 1 | | SM 2540C | Total/NA |
| Chloride | 1.7 | J | 2.0 | 1.4 | mg/L | 1 | | SM 4500 Cl- E | Total/NA |
| Sulfate | 2.0 | J | 5.0 | 1.4 | mg/L | 1 | | SM 4500 SO4 E | Total/NA |
| Field pH | 7.82 | | | | SU | 1 | | Field Sampling | Total/NA |

## Client Sample ID: MW-D1-20230426 — Lab Sample ID: 400-236902-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Barium | 0.016 | | 0.0025 | 0.00070 | mg/L | 5 | | 6020 | Total Recoverable |
| Boron | 0.10 | B | 0.050 | 0.0012 | mg/L | 5 | | 6020 | Total Recoverable |
| Calcium | 68 | | 0.25 | 0.13 | mg/L | 5 | | 6020 | Total Recoverable |
| Chromium | 0.0018 | J | 0.0025 | 0.0010 | mg/L | 5 | | 6020 | Total Recoverable |
| Cobalt | 0.0016 | J | 0.0025 | 0.00056 | mg/L | 5 | | 6020 | Total Recoverable |
| Selenium | 0.00083 | J | 0.0013 | 0.00082 | mg/L | 5 | | 6020 | Total Recoverable |
| Total Dissolved Solids | 200 | | 5.0 | 5.0 | mg/L | 1 | | SM 2540C | Total/NA |
| Chloride | 4.1 | | 2.0 | 1.4 | mg/L | 1 | | SM 4500 Cl- E | Total/NA |
| Fluoride | 0.083 | J | 0.10 | 0.070 | mg/L | 1 | | SM 4500 F C | Total/NA |
| Sulfate | 26 | | 5.0 | 1.4 | mg/L | 1 | | SM 4500 SO4 E | Total/NA |
| Field pH | 7.09 | | | | SU | 1 | | Field Sampling | Total/NA |

## Client Sample ID: MW-D2-20230426 — Lab Sample ID: 400-236902-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Barium | 0.19 | | 0.0025 | 0.00070 | mg/L | 5 | | 6020 | Total Recoverable |
| Boron | 0.12 | B | 0.050 | 0.0012 | mg/L | 5 | | 6020 | Total Recoverable |
| Calcium | 130 | | 0.25 | 0.13 | mg/L | 5 | | 6020 | Total Recoverable |
| Total Dissolved Solids | 370 | | 5.0 | 5.0 | mg/L | 1 | | SM 2540C | Total/NA |
| Chloride | 3.0 | | 2.0 | 1.4 | mg/L | 1 | | SM 4500 Cl- E | Total/NA |
| Sulfate | 14 | | 5.0 | 1.4 | mg/L | 1 | | SM 4500 SO4 E | Total/NA |
| Field pH | 6.78 | | | | SU | 1 | | Field Sampling | Total/NA |

## Client Sample ID: MW-D3-20230427 — Lab Sample ID: 400-236902-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Barium | 0.060 | | 0.0025 | 0.00070 | mg/L | 5 | | 6020 | Total Recoverable |

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

## Client Sample ID: MW-D3-20230427 (Continued)

## Lab Sample ID: 400-236902-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.17 | B | 0.050 | 0.0012 | mg/L | 5 | | 6020 | Total Recoverable |
| Calcium | 87 | | 0.25 | 0.13 | mg/L | 5 | | 6020 | Total Recoverable |
| Molybdenum | 0.0052 | J | 0.010 | 0.0013 | mg/L | 5 | | 6020 | Total Recoverable |
| Selenium | 0.0015 | | 0.0013 | 0.00082 | mg/L | 5 | | 6020 | Total Recoverable |
| Total Dissolved Solids | 270 | | 5.0 | 5.0 | mg/L | 1 | | SM 2540C | Total/NA |
| Chloride | 2.6 | | 2.0 | 1.4 | mg/L | 1 | | SM 4500 Cl- E | Total/NA |
| Fluoride | 0.12 | | 0.10 | 0.070 | mg/L | 1 | | SM 4500 F C | Total/NA |
| Sulfate | 28 | | 5.0 | 1.4 | mg/L | 1 | | SM 4500 SO4 E | Total/NA |
| Field pH | 6.56 | | | | SU | 1 | | Field Sampling | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

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

Job ID: 400-236902-3

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 6020 | Metals (ICP/MS) | SW846 | EET PEN |
| 7470A | Mercury (CVAA) | SW846 | EET PEN |
| 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 PEN |
| 7470A | Preparation, Mercury | SW846 | EET PEN |

**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

# Sample Summary

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

Job ID: 400-236902-3

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Water | 04/26/23 11:52 | 04/29/23 07:44 |
| 400-236902-10 | MW-D1-20230426 | Water | 04/26/23 13:33 | 04/29/23 07:44 |
| 400-236902-11 | MW-D2-20230426 | Water | 04/26/23 16:51 | 04/29/23 07:44 |
| 400-236902-12 | MW-D3-20230427 | Water | 04/27/23 08:48 | 04/29/23 07:44 |

# Client Sample Results

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

Job ID: 400-236902-3

## Client Sample ID: MW-U1-20230426

**Date Collected: 04/26/23 11:52**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-9

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.0025 | 0.0015 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Arsenic | ND | | 0.0013 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| **Barium** | **0.0031** | | 0.0025 | 0.00070 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Beryllium | ND | | 0.0020 | 0.00092 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| **Boron** | **0.020** | **J B** | 0.050 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Cadmium | ND | | 0.0010 | 0.00065 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| **Calcium** | **37** | | 0.25 | 0.13 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| **Chromium** | **0.0021** | **J** | 0.0025 | 0.0010 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Cobalt | ND | | 0.0025 | 0.00056 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Lead | ND | | 0.0013 | 0.00081 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| **Lithium** | **0.0058** | | 0.0025 | 0.0049 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Molybdenum | ND | | 0.010 | 0.0013 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Selenium | ND | | 0.0013 | 0.00082 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |
| Thallium | ND | | 0.00050 | 0.00046 | mg/L | | 05/08/23 13:20 | 05/18/23 14:48 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00015 | mg/L | | 05/02/23 08:50 | 05/03/23 09:14 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Dissolved Solids (SM 2540C)** | **110** | | 5.0 | 5.0 | mg/L | | | 05/03/23 09:13 | 1 |
| **Chloride (SM 4500 Cl- E)** | **1.7** | **J** | 2.0 | 1.4 | mg/L | | | 05/13/23 10:58 | 1 |
| Fluoride (SM 4500 F C) | ND | | 0.10 | 0.070 | mg/L | | | 05/02/23 13:49 | 1 |
| **Sulfate (SM 4500 SO4 E)** | **2.0** | **J** | 5.0 | 1.4 | mg/L | | | 05/08/23 12:25 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **7.82** | | | | SU | | | 04/26/23 10:52 | 1 |

# Client Sample Results

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

Job ID: 400-236902-3

## Client Sample ID: MW-D1-20230426

**Date Collected: 04/26/23 13:33**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-10

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.0025 | 0.0015 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Arsenic | ND | | 0.0013 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| **Barium** | **0.016** | | 0.0025 | 0.00070 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Beryllium | ND | | 0.0020 | 0.00092 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| **Boron** | **0.10** | **B** | 0.050 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Cadmium | ND | | 0.0010 | 0.00065 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| **Calcium** | **68** | | 0.25 | 0.13 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| **Chromium** | **0.0018** | **J** | 0.0025 | 0.0010 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| **Cobalt** | **0.0016** | **J** | 0.0025 | 0.00056 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Lead | ND | | 0.0013 | 0.00081 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Lithium | ND | | 0.0025 | 0.0049 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Molybdenum | ND | | 0.010 | 0.0013 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| **Selenium** | **0.00083** | **J** | 0.0013 | 0.00082 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |
| Thallium | ND | | 0.00050 | 0.00046 | mg/L | | 05/08/23 13:20 | 05/18/23 14:51 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00015 | mg/L | | 05/02/23 08:50 | 05/03/23 09:15 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Dissolved Solids (SM 2540C)** | **200** | | 5.0 | 5.0 | mg/L | | | 05/03/23 09:13 | 1 |
| **Chloride (SM 4500 Cl- E)** | **4.1** | | 2.0 | 1.4 | mg/L | | | 05/13/23 10:59 | 1 |
| **Fluoride (SM 4500 F C)** | **0.083** | **J** | 0.10 | 0.070 | mg/L | | | 05/02/23 13:49 | 1 |
| **Sulfate (SM 4500 SO4 E)** | **26** | | 5.0 | 1.4 | mg/L | | | 05/08/23 12:25 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **7.09** | | | | SU | | | 04/26/23 12:33 | 1 |

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

Job ID: 400-236902-3

## Client Sample ID: MW-D2-20230426

**Date Collected: 04/26/23 16:51**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-11

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.0025 | 0.0015 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Arsenic | ND | | 0.0013 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| **Barium** | **0.19** | | 0.0025 | 0.00070 | mg/L | | 05/08/23 13:20 | 05/19/23 13:52 | 5 |
| Beryllium | ND | | 0.0020 | 0.00092 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| **Boron** | **0.12** | **B** | 0.050 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Cadmium | ND | | 0.0010 | 0.00065 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| **Calcium** | **130** | | 0.25 | 0.13 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Chromium | ND | | 0.0025 | 0.0010 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Cobalt | ND | | 0.0025 | 0.00056 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Lead | ND | | 0.0013 | 0.00081 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Lithium | ND | | 0.0025 | 0.0049 | mg/L | | 05/08/23 13:20 | 05/19/23 13:52 | 5 |
| Molybdenum | ND | | 0.010 | 0.0013 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Selenium | ND | | 0.0013 | 0.00082 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |
| Thallium | ND | | 0.00050 | 0.00046 | mg/L | | 05/08/23 13:20 | 05/18/23 14:54 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00015 | mg/L | | 05/02/23 08:50 | 05/03/23 09:17 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Dissolved Solids (SM 2540C)** | **370** | | 5.0 | 5.0 | mg/L | | | 05/03/23 09:13 | 1 |
| **Chloride (SM 4500 Cl- E)** | **3.0** | | 2.0 | 1.4 | mg/L | | | 05/13/23 10:59 | 1 |
| Fluoride (SM 4500 F C) | ND | | 0.10 | 0.070 | mg/L | | | 05/02/23 13:49 | 1 |
| **Sulfate (SM 4500 SO4 E)** | **14** | | 5.0 | 1.4 | mg/L | | | 05/08/23 12:27 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **6.78** | | | | SU | | | 04/26/23 15:51 | 1 |

# Client Sample Results

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

Job ID: 400-236902-3

## Client Sample ID: MW-D3-20230427

**Date Collected: 04/27/23 08:48**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-12

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.0025 | 0.0015 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Arsenic | ND | | 0.0013 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| **Barium** | **0.060** | | 0.0025 | 0.00070 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Beryllium | ND | | 0.0020 | 0.00092 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| **Boron** | **0.17** | **B** | 0.050 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Cadmium | ND | | 0.0010 | 0.00065 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| **Calcium** | **87** | | 0.25 | 0.13 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Chromium | ND | | 0.0025 | 0.0010 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Cobalt | ND | | 0.0025 | 0.00056 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Lead | ND | | 0.0013 | 0.00081 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Lithium | ND | | 0.0025 | 0.0049 | mg/L | | 05/08/23 13:20 | 05/19/23 13:55 | 5 |
| **Molybdenum** | **0.0052** | **J** | 0.010 | 0.0013 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| **Selenium** | **0.0015** | | 0.0013 | 0.00082 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |
| Thallium | ND | | 0.00050 | 0.00046 | mg/L | | 05/08/23 13:20 | 05/18/23 14:57 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00015 | mg/L | | 05/02/23 08:50 | 05/03/23 09:24 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Dissolved Solids (SM 2540C)** | **270** | | 5.0 | 5.0 | mg/L | | | 05/03/23 09:13 | 1 |
| **Chloride (SM 4500 Cl- E)** | **2.6** | | 2.0 | 1.4 | mg/L | | | 05/15/23 13:22 | 1 |
| **Fluoride (SM 4500 F C)** | **0.12** | | 0.10 | 0.070 | mg/L | | | 05/02/23 13:49 | 1 |
| **Sulfate (SM 4500 SO4 E)** | **28** | | 5.0 | 1.4 | mg/L | | | 05/17/23 18:44 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **6.56** | | | | SU | | | 04/27/23 07:48 | 1 |

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

Job ID: 400-236902-1

## Client Sample ID: DUP-20-20230427

**Date Collected: 04/27/23 12:00**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-13

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.0025 | 0.0015 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Arsenic | ND | | 0.0013 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| **Barium** | **0.060** | | 0.0025 | 0.00070 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Beryllium | ND | | 0.0020 | 0.00092 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| **Boron** | **0.17** | **B** | 0.050 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Cadmium | ND | | 0.0010 | 0.00065 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| **Calcium** | **89** | | 0.25 | 0.13 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Chromium | ND | | 0.0025 | 0.0010 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Cobalt | ND | | 0.0025 | 0.00056 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Lead | ND | | 0.0013 | 0.00081 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Lithium | ND | | 0.0025 | 0.0049 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| **Molybdenum** | **0.0053** | **J** | 0.010 | 0.0013 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Selenium | ND | | 0.0013 | 0.00082 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |
| Thallium | ND | | 0.00050 | 0.00046 | mg/L | | 05/08/23 13:20 | 05/18/23 15:22 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00015 | mg/L | | 05/02/23 08:50 | 05/03/23 09:25 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Dissolved Solids (SM 2540C)** | **260** | | 5.0 | 5.0 | mg/L | | | 05/03/23 09:13 | 1 |
| **Chloride (SM 4500 Cl- E)** | **2.6** | | 2.0 | 1.4 | mg/L | | | 05/15/23 13:23 | 1 |
| **Fluoride (SM 4500 F C)** | **0.12** | | 0.10 | 0.070 | mg/L | | | 05/02/23 13:49 | 1 |
| **Sulfate (SM 4500 SO4 E)** | **28** | | 5.0 | 1.4 | mg/L | | | 05/17/23 18:45 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **N/A** | | | | SU | | | 04/27/23 11:00 | 1 |

## Qualifiers

### Metals

| Qualifier | Qualifier Description |
|---|---|
| ^5+ | Linear Range Check (LRC) 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. |
| B | Compound was found in the blank and sample. |
| E | Result exceeded calibration range. |
| 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 |
|---|---|
| 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. |

## 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

Job ID: 400-236902-3

## Client Sample ID: MW-U1-20230426
**Lab Sample ID: 400-236902-9**

**Date Collected: 04/26/23 11:52**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 3005A | | | 623914 | KWN | EET PEN | 05/08/23 13:20 - 05/08/23 15:45 [1] |
| Total Recoverable | Analysis | 6020 | | 5 | 625600 | NTH | EET PEN | 05/18/23 14:48 |
| Total/NA | Prep | 7470A | | | 623053 | NET | EET PEN | 05/02/23 08:50 - 05/02/23 11:28 [1] |
| Total/NA | Analysis | 7470A | | 1 | 623349 | NET | EET PEN | 05/03/23 09:14 |
| Total/NA | Analysis | SM 2540C | | 1 | 623280 | HA | EET PEN | 05/03/23 09:13 |
| Total/NA | Analysis | SM 4500 Cl- E | | 1 | 624780 | CJK | EET PEN | 05/13/23 10:58 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 623192 | JP | EET PEN | 05/02/23 13:49 |
| Total/NA | Analysis | SM 4500 SO4 E | | 1 | 623940 | CJK | EET PEN | 05/08/23 12:25 |
| Total/NA | Analysis | Field Sampling | | 1 | 623093 | S1K | EET PEN | 04/26/23 10:52 |

## Client Sample ID: MW-D1-20230426
**Lab Sample ID: 400-236902-10**

**Date Collected: 04/26/23 13:33**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 3005A | | | 623914 | KWN | EET PEN | 05/08/23 13:20 - 05/08/23 15:45 [1] |
| Total Recoverable | Analysis | 6020 | | 5 | 625600 | NTH | EET PEN | 05/18/23 14:51 |
| Total/NA | Prep | 7470A | | | 623053 | NET | EET PEN | 05/02/23 08:50 - 05/02/23 11:28 [1] |
| Total/NA | Analysis | 7470A | | 1 | 623349 | NET | EET PEN | 05/03/23 09:15 |
| Total/NA | Analysis | SM 2540C | | 1 | 623280 | HA | EET PEN | 05/03/23 09:13 |
| Total/NA | Analysis | SM 4500 Cl- E | | 1 | 624780 | CJK | EET PEN | 05/13/23 10:59 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 623192 | JP | EET PEN | 05/02/23 13:49 |
| Total/NA | Analysis | SM 4500 SO4 E | | 1 | 623940 | CJK | EET PEN | 05/08/23 12:25 |
| Total/NA | Analysis | Field Sampling | | 1 | 623093 | S1K | EET PEN | 04/26/23 12:33 |

## Client Sample ID: MW-D2-20230426
**Lab Sample ID: 400-236902-11**

**Date Collected: 04/26/23 16:51**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 3005A | | | 623914 | KWN | EET PEN | 05/08/23 13:20 - 05/08/23 15:45 [1] |
| Total Recoverable | Analysis | 6020 | | 5 | 625600 | NTH | EET PEN | 05/18/23 14:54 |
| Total Recoverable | Prep | 3005A | | | 623914 | KWN | EET PEN | 05/08/23 13:20 - 05/08/23 15:45 [1] |
| Total Recoverable | Analysis | 6020 | | 5 | 625706 | NTH | EET PEN | 05/19/23 13:52 |
| Total/NA | Prep | 7470A | | | 623053 | NET | EET PEN | 05/02/23 08:50 - 05/02/23 11:28 [1] |
| Total/NA | Analysis | 7470A | | 1 | 623349 | NET | EET PEN | 05/03/23 09:17 |
| Total/NA | Analysis | SM 2540C | | 1 | 623280 | HA | EET PEN | 05/03/23 09:13 |
| Total/NA | Analysis | SM 4500 Cl- E | | 1 | 624780 | CJK | EET PEN | 05/13/23 10:59 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 623192 | JP | EET PEN | 05/02/23 13:49 |
| Total/NA | Analysis | SM 4500 SO4 E | | 1 | 623940 | CJK | EET PEN | 05/08/23 12:27 |
| Total/NA | Analysis | Field Sampling | | 1 | 623093 | S1K | EET PEN | 04/26/23 15:51 |

# Lab Chronicle

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

Job ID: 400-236902-3

## Client Sample ID: MW-D3-20230427

**Date Collected: 04/27/23 08:48**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-12

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 3005A | | | 623914 | KWN | EET PEN | 05/08/23 13:20 - 05/08/23 15:45 [1] |
| Total Recoverable | Analysis | 6020 | | 5 | 625600 | NTH | EET PEN | 05/18/23 14:57 |
| Total Recoverable | Prep | 3005A | | | 623914 | KWN | EET PEN | 05/08/23 13:20 - 05/08/23 15:45 [1] |
| Total Recoverable | Analysis | 6020 | | 5 | 625706 | NTH | EET PEN | 05/19/23 13:55 |
| Total/NA | Prep | 7470A | | | 623053 | NET | EET PEN | 05/02/23 08:50 - 05/02/23 11:28 [1] |
| Total/NA | Analysis | 7470A | | 1 | 623349 | NET | EET PEN | 05/03/23 09:24 |
| Total/NA | Analysis | SM 2540C | | 1 | 623280 | HA | EET PEN | 05/03/23 09:13 |
| Total/NA | Analysis | SM 4500 Cl- E | | 1 | 624976 | CJK | EET PEN | 05/15/23 13:22 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 623192 | JP | EET PEN | 05/02/23 13:49 |
| Total/NA | Analysis | SM 4500 SO4 E | | 1 | 625380 | CJK | EET PEN | 05/17/23 18:44 |
| Total/NA | Analysis | Field Sampling | | 1 | 623093 | S1K | EET PEN | 04/27/23 07:48 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

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

## Metals

### Prep Batch: 623053

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | 7470A | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | 7470A | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | 7470A | |
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | 7470A | |
| MB 400-623053/14-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 400-623053/15-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 400-236902-C-1-B MS | Matrix Spike | Total/NA | Water | 7470A | |
| 400-236902-C-1-C MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | |

### Analysis Batch: 623349

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | 7470A | 623053 |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | 7470A | 623053 |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | 7470A | 623053 |
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | 7470A | 623053 |
| MB 400-623053/14-A | Method Blank | Total/NA | Water | 7470A | 623053 |
| LCS 400-623053/15-A | Lab Control Sample | Total/NA | Water | 7470A | 623053 |
| 400-236902-C-1-B MS | Matrix Spike | Total/NA | Water | 7470A | 623053 |
| 400-236902-C-1-C MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | 623053 |

### Prep Batch: 623914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total Recoverable | Water | 3005A | |
| 400-236902-10 | MW-D1-20230426 | Total Recoverable | Water | 3005A | |
| 400-236902-11 | MW-D2-20230426 | Total Recoverable | Water | 3005A | |
| 400-236902-12 | MW-D3-20230427 | Total Recoverable | Water | 3005A | |
| MB 400-623914/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-623914/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 400-236902-C-1-E MS ^5 | Matrix Spike | Total Recoverable | Water | 3005A | |
| 400-236902-C-1-F MSD ^5 | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |

### Analysis Batch: 625600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total Recoverable | Water | 6020 | 623914 |
| 400-236902-10 | MW-D1-20230426 | Total Recoverable | Water | 6020 | 623914 |
| 400-236902-11 | MW-D2-20230426 | Total Recoverable | Water | 6020 | 623914 |
| 400-236902-12 | MW-D3-20230427 | Total Recoverable | Water | 6020 | 623914 |
| MB 400-623914/1-A ^5 | Method Blank | Total Recoverable | Water | 6020 | 623914 |
| LCS 400-623914/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020 | 623914 |
| 400-236902-C-1-E MS ^5 | Matrix Spike | Total Recoverable | Water | 6020 | 623914 |
| 400-236902-C-1-F MSD ^5 | Matrix Spike Duplicate | Total Recoverable | Water | 6020 | 623914 |

### Analysis Batch: 625706

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-11 | MW-D2-20230426 | Total Recoverable | Water | 6020 | 623914 |
| 400-236902-12 | MW-D3-20230427 | Total Recoverable | Water | 6020 | 623914 |
| MB 400-623914/1-A ^5 | Method Blank | Total Recoverable | Water | 6020 | 623914 |

## General Chemistry

### Analysis Batch: 623192

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | SM 4500 F C | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | SM 4500 F C | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | SM 4500 F C | |
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | SM 4500 F C | |
| MB 400-623192/40 | Method Blank | Total/NA | Water | SM 4500 F C | |
| LCS 400-623192/42 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| MRL 400-623192/11 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| 400-236902-B-7 MS | Matrix Spike | Total/NA | Water | SM 4500 F C | |
| 400-236902-B-7 MSD | Matrix Spike Duplicate | Total/NA | Water | SM 4500 F C | |

### Analysis Batch: 623280

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | SM 2540C | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | SM 2540C | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | SM 2540C | |
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | SM 2540C | |
| MB 400-623280/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 400-623280/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 400-236902-B-5 DU | Duplicate | Total/NA | Water | SM 2540C | |

### Analysis Batch: 623940

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | SM 4500 SO4 E | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | SM 4500 SO4 E | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | SM 4500 SO4 E | |
| MB 400-623940/12 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| LCS 400-623940/13 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |
| MRL 400-623940/14 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |

### Analysis Batch: 624780

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | SM 4500 Cl- E | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | SM 4500 Cl- E | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | SM 4500 Cl- E | |
| MB 400-624780/13 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| LCS 400-624780/14 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| MRL 400-624780/15 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| 400-236902-B-1 MS | Matrix Spike | Total/NA | Water | SM 4500 Cl- E | |
| 400-236902-B-1 MSD | Matrix Spike Duplicate | Total/NA | Water | SM 4500 Cl- E | |

### Analysis Batch: 624976

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | SM 4500 Cl- E | |
| MB 400-624976/5 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| LCS 400-624976/6 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| MRL 400-624976/7 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| 400-236929-A-2 MS | Matrix Spike | Total/NA | Water | SM 4500 Cl- E | |
| 400-236929-A-2 MSD | Matrix Spike Duplicate | Total/NA | Water | SM 4500 Cl- E | |

# QC Association Summary

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

Job ID: 400-236902-3

## General Chemistry

### Analysis Batch: 625380

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | SM 4500 SO4 E | |

## Field Service / Mobile Lab

### Analysis Batch: 623093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | Field Sampling | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | Field Sampling | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | Field Sampling | |
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | Field Sampling | |

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

**Lab Sample ID: MB 400-623914/1-A ^5**
**Matrix: Water**
**Analysis Batch: 625600**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 623914**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | | 0.0025 | 0.0015 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Arsenic | ND | | 0.0013 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Barium | ND | | 0.0025 | 0.00070 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Beryllium | ND | | 0.0020 | 0.00092 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Boron | 0.00928 | J | 0.050 | 0.0012 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Cadmium | ND | | 0.0010 | 0.00065 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Calcium | ND | | 0.25 | 0.13 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Chromium | ND | | 0.0025 | 0.0010 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Cobalt | ND | | 0.0025 | 0.00056 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Lead | ND | | 0.0013 | 0.00081 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Molybdenum | ND | | 0.010 | 0.0013 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Selenium | ND | | 0.0013 | 0.00082 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |
| Thallium | ND | | 0.00050 | 0.00046 | mg/L | | 05/08/23 13:20 | 05/18/23 13:36 | 5 |

**Lab Sample ID: MB 400-623914/1-A ^5**
**Matrix: Water**
**Analysis Batch: 625706**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 623914**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lithium | ND | | 0.0025 | 0.0049 | mg/L | | 05/08/23 13:20 | 05/19/23 13:34 | 5 |

**Lab Sample ID: LCS 400-623914/2-A ^5**
**Matrix: Water**
**Analysis Batch: 625600**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 623914**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 0.0500 | 0.0537 | | mg/L | | 107 | 80 - 120 |
| Arsenic | 0.0500 | 0.0489 | | mg/L | | 98 | 80 - 120 |
| Barium | 0.0500 | 0.0525 | | mg/L | | 105 | 80 - 120 |
| Beryllium | 0.0500 | 0.0522 | | mg/L | | 104 | 80 - 120 |
| Boron | 0.100 | 0.107 | | mg/L | | 107 | 80 - 120 |
| Cadmium | 0.0500 | 0.0519 | | mg/L | | 104 | 80 - 120 |
| Calcium | 5.00 | 5.13 | | mg/L | | 103 | 80 - 120 |
| Chromium | 0.0500 | 0.0511 | | mg/L | | 102 | 80 - 120 |
| Cobalt | 0.0500 | 0.0509 | | mg/L | | 102 | 80 - 120 |
| Lead | 0.0500 | 0.0527 | | mg/L | | 105 | 80 - 120 |
| Lithium | 0.0500 | 0.0553 | | mg/L | | 111 | 80 - 120 |
| Molybdenum | 0.0500 | 0.0526 | | mg/L | | 105 | 80 - 120 |
| Selenium | 0.0500 | 0.0514 | | mg/L | | 103 | 80 - 120 |
| Thallium | 0.0100 | 0.0106 | | mg/L | | 106 | 80 - 120 |

**Lab Sample ID: 400-236902-C-1-E MS ^5**
**Matrix: Water**
**Analysis Batch: 625600**

**Client Sample ID: Matrix Spike**
**Prep Type: Total Recoverable**
**Prep Batch: 623914**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | F1 | 0.0500 | 0.0628 | F1 | mg/L | | 126 | 75 - 125 |
| Arsenic | ND | | 0.0500 | 0.0553 | | mg/L | | 111 | 75 - 125 |
| Barium | 0.026 | | 0.0500 | 0.0828 | ^5+ | mg/L | | 115 | 75 - 125 |

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

**Lab Sample ID: 400-236902-C-1-E MS ^5**
**Matrix: Water**
**Analysis Batch: 625600**

**Client Sample ID: Matrix Spike**
**Prep Type: Total Recoverable**
**Prep Batch: 623914**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Beryllium | ND | | 0.0500 | 0.0580 | | mg/L | | 116 | 75 - 125 |
| Boron | 0.026 | J ^5+ B | 0.100 | 0.151 | | mg/L | | 124 | 75 - 125 |
| Cadmium | ND | | 0.0500 | 0.0594 | | mg/L | | 119 | 75 - 125 |
| Calcium | 50 | | 5.00 | 56.0 | E 4 | mg/L | | 123 | 75 - 125 |
| Chromium | ND | ^5+ | 0.0500 | 0.0576 | ^5+ | mg/L | | 115 | 75 - 125 |
| Cobalt | ND | | 0.0500 | 0.0566 | | mg/L | | 113 | 75 - 125 |
| Lead | ND | | 0.0500 | 0.0557 | | mg/L | | 111 | 75 - 125 |
| Lithium | ND | | 0.0500 | 0.0554 | | mg/L | | 111 | 75 - 125 |
| Molybdenum | ND | | 0.0500 | 0.0602 | | mg/L | | 120 | 75 - 125 |
| Selenium | ND | | 0.0500 | 0.0559 | | mg/L | | 112 | 75 - 125 |
| Thallium | ND | | 0.0100 | 0.0113 | | mg/L | | 113 | 75 - 125 |

**Lab Sample ID: 400-236902-C-1-F MSD ^5**
**Matrix: Water**
**Analysis Batch: 625600**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total Recoverable**
**Prep Batch: 623914**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | F1 | 0.0500 | 0.0589 | | mg/L | | 118 | 75 - 125 | 6 | 20 |
| Arsenic | ND | | 0.0500 | 0.0549 | | mg/L | | 110 | 75 - 125 | 1 | 20 |
| Barium | 0.026 | | 0.0500 | 0.0817 | ^5+ | mg/L | | 112 | 75 - 125 | 1 | 20 |
| Beryllium | ND | | 0.0500 | 0.0547 | | mg/L | | 109 | 75 - 125 | 6 | 20 |
| Boron | 0.026 | J ^5+ B | 0.100 | 0.135 | | mg/L | | 109 | 75 - 125 | 11 | 20 |
| Cadmium | ND | | 0.0500 | 0.0564 | | mg/L | | 113 | 75 - 125 | 5 | 20 |
| Calcium | 50 | | 5.00 | 56.9 | E 4 | mg/L | | 139 | 75 - 125 | 1 | 20 |
| Chromium | ND | ^5+ | 0.0500 | 0.0569 | ^5+ | mg/L | | 114 | 75 - 125 | 1 | 20 |
| Cobalt | ND | | 0.0500 | 0.0565 | | mg/L | | 113 | 75 - 125 | 0 | 20 |
| Lead | ND | | 0.0500 | 0.0559 | | mg/L | | 112 | 75 - 125 | 0 | 20 |
| Lithium | ND | | 0.0500 | 0.0498 | | mg/L | | 100 | 75 - 125 | 11 | 20 |
| Molybdenum | ND | | 0.0500 | 0.0574 | | mg/L | | 115 | 75 - 125 | 5 | 20 |
| Selenium | ND | | 0.0500 | 0.0506 | | mg/L | | 101 | 75 - 125 | 10 | 20 |
| Thallium | ND | | 0.0100 | 0.0117 | | mg/L | | 117 | 75 - 125 | 3 | 20 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 400-623053/14-A**
**Matrix: Water**
**Analysis Batch: 623349**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 623053**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00015 | mg/L | | 05/02/23 08:50 | 05/03/23 08:52 | 1 |

**Lab Sample ID: LCS 400-623053/15-A**
**Matrix: Water**
**Analysis Batch: 623349**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 623053**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00101 | 0.000870 | | mg/L | | 86 | 80 - 120 |

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

**Lab Sample ID: 400-236902-C-1-B MS**
**Matrix: Water**
**Analysis Batch: 623349**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 623053**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00201 | 0.00201 | | mg/L | | 100 | 80 - 120 |

**Lab Sample ID: 400-236902-C-1-C MSD**
**Matrix: Water**
**Analysis Batch: 623349**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 623053**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00201 | 0.00187 | | mg/L | | 93 | 80 - 120 | 7 | 20 |

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

**Lab Sample ID: MB 400-623280/1**
**Matrix: Water**
**Analysis Batch: 623280**

**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 | | | 05/03/23 09:13 | 1 |

**Lab Sample ID: LCS 400-623280/2**
**Matrix: Water**
**Analysis Batch: 623280**

**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: 400-236902-B-5 DU**
**Matrix: Water**
**Analysis Batch: 623280**

**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 | 84 | | 84.0 | | mg/L | | 0 | 5 |

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

**Lab Sample ID: MB 400-624780/13**
**Matrix: Water**
**Analysis Batch: 624780**

**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 | | | 05/13/23 10:54 | 1 |

**Lab Sample ID: LCS 400-624780/14**
**Matrix: Water**
**Analysis Batch: 624780**

**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 | 54.3 | | mg/L | | 109 | 90 - 110 |

## Method: SM 4500 Cl- E - Chloride, Total (Continued)

**Lab Sample ID: MRL 400-624780/15**
**Matrix: Water**
**Analysis Batch: 624780**

**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 | 2.19 | | mg/L | | 110 | 50 - 150 | | |

**Lab Sample ID: 400-236902-B-1 MS**
**Matrix: Water**
**Analysis Batch: 624780**

**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 | 1.8 | J | 10.0 | 10.6 | | mg/L | | 88 | 73 - 120 | | |

**Lab Sample ID: 400-236902-B-1 MSD**
**Matrix: Water**
**Analysis Batch: 624780**

**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 | 1.8 | J | 10.0 | 10.7 | | mg/L | | 90 | 73 - 120 | 1 | 8 |

**Lab Sample ID: MB 400-624976/5**
**Matrix: Water**
**Analysis Batch: 624976**

**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 | | | 05/15/23 13:17 | 1 |

**Lab Sample ID: LCS 400-624976/6**
**Matrix: Water**
**Analysis Batch: 624976**

**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 | 50.6 | | mg/L | | 101 | 90 - 110 | | |

**Lab Sample ID: MRL 400-624976/7**
**Matrix: Water**
**Analysis Batch: 624976**

**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 | 2.14 | | mg/L | | 107 | 50 - 150 | | |

**Lab Sample ID: 400-236929-A-2 MS**
**Matrix: Water**
**Analysis Batch: 624976**

**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 | 25000 | | 40.0 | 1790 | 4 | mg/L | | -5905<br>5 | 73 - 120 | | |

## Method: SM 4500 Cl- E - Chloride, Total (Continued)

**Lab Sample ID: 400-236929-A-2 MSD**
**Matrix: Water**
**Analysis Batch: 624976**

**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 | 25000 | | 40.0 | 1790 | 4 | mg/L | | -5904 9 | 73 - 120 | 0 | 8 |

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 400-623192/40**
**Matrix: Water**
**Analysis Batch: 623192**

**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 | 0.070 | mg/L | | | 05/02/23 13:49 | 1 |

**Lab Sample ID: LCS 400-623192/42**
**Matrix: Water**
**Analysis Batch: 623192**

**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 | 5.18 | | mg/L | | 104 | 90 - 110 |

**Lab Sample ID: MRL 400-623192/11**
**Matrix: Water**
**Analysis Batch: 623192**

**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 | 0.0975 | J | mg/L | | 97 | |

**Lab Sample ID: 400-236902-B-7 MS**
**Matrix: Water**
**Analysis Batch: 623192**

**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 | 0.083 | J | 0.100 | 0.178 | | mg/L | | 95 | 75 - 125 |

**Lab Sample ID: 400-236902-B-7 MSD**
**Matrix: Water**
**Analysis Batch: 623192**

**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 | 0.083 | J | 0.100 | 0.185 | | mg/L | | 102 | 75 - 125 | 4 | 4 |

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

**Lab Sample ID: MB 400-623940/12**
**Matrix: Water**
**Analysis Batch: 623940**

**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 | | | 05/08/23 12:21 | 1 |

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

**Lab Sample ID: LCS 400-623940/13**
**Matrix: Water**
**Analysis Batch: 623940**

**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 | 16.1 | | mg/L | | 107 | 90 - 110 |

**Lab Sample ID: MRL 400-623940/14**
**Matrix: Water**
**Analysis Batch: 623940**

**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 | 5.42 | | mg/L | | 108 | 50 - 150 |

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custody Record

| Client Information | Sampler: Tristan Orndorff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
|---|---|---|---|
| Client Contact: Dawit Yifru | Phone: 404-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Company: Geosyntec Consultants, Inc. | PWSID: | | |
| Address: 1255 Roberts Blvd, NW Suite 200 | Due Date Requested: | | |
| City: Kennesaw | TAT Requested (days): Standard | | |
| State, Zip: GA, 30144 | Compliance Project: Δ Yes Δ No | | |
| Phone: 678-202-9569 | PO #: Purchase Order not required | | |
| Email: dyifru@geosyntec.com | WO #: | | |
| Project Name: Crisp County CCR | Project #: 40007960 | | |
| Site: Crisp County Power | SSOW#: | | |

Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-DH-20230426 | 04/26/23 | 16:45 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-DS-20230427 | 04/27/23 | 08:51 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D6-20230426 | 04/26/23 | 15:10 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D7-20230427 | 04/27/23 | 10:37 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |

400-236902 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal ( A fee may be assessed if samples are retained)
☐ Return To Client ☒ Disposal By Lab ☐ Archive

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Tristan Orndorff | Date/Time: 4/28/23 12:45 | Company: Geosyntec | Received by: | Date/Time: 4-29-2 |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: |

3355 McLemore Drive
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custody Record

| Client Information | Sampler: Trestan Ornduff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
|---|---|---|---|
| Client Contact: Dawit Yifru | Phone: 484-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Company: Geosyntec Consultants, Inc. | PWSID: | | |
| Address: 1255 Roberts Blvd, NW Suite 200 | Due Date Requested: | | |
| City: Kennesaw | TAT Requested (days): Standard | | |
| State, Zip: GA, 30144 | Compliance Project: Δ Yes Δ No | | |
| Phone: (678-202-9569 | PO #: Purchase Order not required | | |
| Email: dyifru@geosyntec.com | WO #: | | |
| Project Name: Crisp County CCR | Project #: 40007960 | | |
| Site: Crisp County Power | SSOW#: | | |

Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-U2-20230426 | 04/26/23 | 13:44 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D8-20230427 | 04/27/23 | 12:07 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D9-20230427 | 04/27/23 | 12:05 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| DUP-6-20230427 | 04/27/23 | 00:00 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |

400-236902 COC

**Possible Hazard Identification**
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retaine**
☐ Return To Client ☒ Disposal By Lab ☐ Archi

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Trestan Ornduff | Date/Time: 4/28/23 12:45 | Company: Geosyntec | Received by: M |
| Relinquished by: | Date/Time: | Company | Received by: |

**Eurofins Pensacola**
3355 McLemore Drive
Pensacola, 314
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custody Record

**Client Information**

| | | | |
|---|---|---|---|
| Client Contact: Dawit Yifru | Sampler: Tristan Orndorff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
| Company: Geosyntec Consultants, Inc. | Phone: 404-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Address: 1255 Roberts Blvd, NW Suite 200 | PWSID: | | |
| City: Kennesaw | Due Date Requested: | | |
| State, Zip: GA, 30144 | TAT Requested (days): Standard | | |
| Phone: 678-202-9569 | Compliance Project: Δ Yes Δ No | | |
| Email: dyifru@geosyntec.com | PO #: Purchase Order not required | | |
| Project Name: Crisp County CCR | WO #: | | |
| Site: Crisp County Power | Project #: 40007960 | | |
| | SSOW#: | | |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-U1-20230426 | 04/26/23 | 11:52 | G | Water | N | N | X | X | X | X | X | X | X | X |
| MW-D1-20230426 | 04/26/23 | 13:33 | G | Water | N | N | X | X | X | X | X | X | X | X |
| MW-D2-20230426 | 04/26/23 | 16:51 | G | Water | N | N | X | X | X | X | X | X | X | X |
| MW-D3-20230427 | 04/27/23 | 08:48 | G | Water | N | N | X | X | X | X | X | X | X | X |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |

400-236902 COC

**Possible Hazard Identification**
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are ret**
☐ Return To Client ☑ Disposal By Lab ☐ A

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| | | | |
|---|---|---|---|
| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
| Relinquished by: Tristan Orndorff | Date/Time: 4/28/23 12:45 | Company: Geo | Received by: |
| Relinquished by: | Date/Time: | Company | Received by: Date/Time: |

**Eurofins Pensacola**
3355 McLemo Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custo Record

| Client Information | Sampler: Tristan Orndorff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
|---|---|---|---|
| Client Contact: Dawit Yifru | Phone: 414-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Company: Geosyntec Consultants, Inc. | PWSID: | | |
| Address: 1255 Roberts Blvd, NW Suite 200 | Due Date Requested: | | |
| City: Kennesaw | TAT Requested (days): standard | | |
| State, Zip: GA, 30144 | Compliance Project: Δ Yes Δ No | | |
| Phone: 678-202-9569 | PO #: Purchase Order not required | | |
| Email: dyifru@geosyntec.com | WO #: | | |
| Project Name: Crisp County CCR | Project #: 40007960 | | |
| Site: Crisp County Power | SSOW#: | | |

Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DUP-20-20230427 | 04/27/23 | 00:00 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |

*Possible Hazard Identification*
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retain*
☐ Return To Client ☒ Disposal By Lab ☐ Arch

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Tristan Orndorff | Date/Time: 4/28/23 12:45 | Company | Received by: |
| Relinquished by: | Date/Time: | Company | Received by: |

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-3

**Login Number: 236902**
**List Number: 1**
**Creator: Whitley, Adrian**

**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. | 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 | 1.4, 3.7, 3.6, 2.3°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 <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: 400-236902-3

## 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 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-22-26 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-23 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-23 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-23 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-24 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| USDA | US Federal Programs | FLGNV23001 | 01-08-26 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-24 |

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/7/2023 2:46:28 PM

## JOB DESCRIPTION

Crisp County Power

## JOB NUMBER

400-236902-4

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.



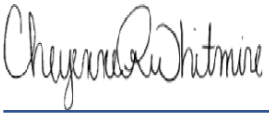
my EOL

## 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



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Authorized for release by
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

# Table of Contents

## Job ID: 400-236902-4

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-236902-4**

**Receipt**
The samples were received on 4/29/2023 7:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4º C, 2.3º C, 3.6º C and 3.7º C.

**RAD**
Method 9315: Radium-226 batch 611290. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D3-20230427 (400-236902-12), (LCS 160-611290/2-A), (LCSD 160-611290/3-A) and (MB 160-611290/1-A)

Method 9315: Radium-226 batch 611496. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10), MW-D2-20230426 (400-236902-11), (LCS 160-611496/2-A), (LCSD 160-611496/3-A) and (MB 160-611496/1-A)

Method 9320: Radium-228 prep batch 160-611300. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-D3-20230427 (400-236902-12), (LCS 160-611300/2-A), (LCSD 160-611300/3-A) and (MB 160-611300/1-A)

Method 9320: Radium-228 batch 611507. The LCS recovered at (126%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required. (LCS 160-611507/2-A)

Method 9320: Radium-228 batch 611507. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10), MW-D2-20230426 (400-236902-11), (LCS 160-611507/2-A), (LCSD 160-611507/3-A) and (MB 160-611507/1-A)

Method 9320: Radium-228 prep batch 160-611507. The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to limited volume available for analysis. The data have been reported with this narrative. MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11)

Method PrecSep_0: Radium-228 Prep Batch 160-611042. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-611300. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D3-20230427 (400-236902-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-611496. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611031. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611290. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-D3-20230427 (400-236902-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD)

## Job ID: 400-236902-4 (Continued)

### Laboratory: Eurofins Pensacola (Continued)

were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-611496. Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-U1-20230426 (400-236902-9), MW-D1-20230426 (400-236902-10) and MW-D2-20230426 (400-236902-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Job ID: 400-236902-4

| 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: 400-236902-4

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Water | 04/26/23 11:52 | 04/29/23 07:44 |
| 400-236902-10 | MW-D1-20230426 | Water | 04/26/23 13:33 | 04/29/23 07:44 |
| 400-236902-11 | MW-D2-20230426 | Water | 04/26/23 16:51 | 04/29/23 07:44 |
| 400-236902-12 | MW-D3-20230427 | Water | 04/27/23 08:48 | 04/29/23 07:44 |

## Client Sample ID: MW-U1-20230426

**Date Collected: 04/26/23 11:52**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-9

**Matrix: Water**

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.412 | U | 0.415 | 0.416 | 1.00 | 0.636 | pCi/L | 05/15/23 11:54 | 06/07/23 06:32 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *57.5* | | *30 - 110* | *05/15/23 11:54* | *06/07/23 06:32* | *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 | 0.982 | U G | 1.06 | 1.06 | 1.00 | 1.72 | pCi/L | 05/15/23 13:17 | 06/06/23 13:16 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *57.5* | | *30 - 110* | *05/15/23 13:17* | *06/06/23 13:16* | *1* |
| *Y Carrier* | *79.8* | | *30 - 110* | *05/15/23 13:17* | *06/06/23 13:16* | *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 | 1.39 | U | 1.14 | 1.14 | 5.00 | 1.72 | pCi/L | | 06/07/23 11:57 | 1 |

## Client Sample ID: MW-D1-20230426

**Date Collected: 04/26/23 13:33**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-10

**Matrix: Water**

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.411 | U | 0.470 | 0.471 | 1.00 | 0.766 | pCi/L | 05/15/23 11:54 | 06/07/23 06:32 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *79.8* | | *30 - 110* | *05/15/23 11:54* | *06/07/23 06:32* | *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 | 0.662 | U G | 0.851 | 0.854 | 1.00 | 1.42 | pCi/L | 05/15/23 13:17 | 06/06/23 13:16 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *79.8* | | *30 - 110* | *05/15/23 13:17* | *06/06/23 13:16* | *1* |
| *Y Carrier* | *73.9* | | *30 - 110* | *05/15/23 13:17* | *06/06/23 13:16* | *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 | 1.07 | U | 0.972 | 0.975 | 5.00 | 1.42 | pCi/L | | 06/07/23 11:57 | 1 |

## Client Sample ID: MW-D2-20230426

**Date Collected: 04/26/23 16:51**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-11

**Matrix: Water**

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.103 | U | 0.275 | 0.276 | 1.00 | 0.518 | pCi/L | 05/15/23 11:54 | 06/07/23 06:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *85.0* | | *30 - 110* | *05/15/23 11:54* | *06/07/23 06:36* | *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 | 0.989 | U G | 0.706 | 0.712 | 1.00 | 1.06 | pCi/L | 05/15/23 13:17 | 06/06/23 13:16 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *85.0* | | *30 - 110* | *05/15/23 13:17* | *06/06/23 13:16* | *1* |
| *Y Carrier* | *88.5* | | *30 - 110* | *05/15/23 13:17* | *06/06/23 13:16* | *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** | **1.09** | | 0.758 | 0.764 | 5.00 | 1.06 | pCi/L | | 06/07/23 11:57 | 1 |

# Client Sample Results

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

Job ID: 400-236902-4

## Client Sample ID: MW-D3-20230427

**Date Collected: 04/27/23 08:48**
**Date Received: 04/29/23 07:44**

## Lab Sample ID: 400-236902-12

**Matrix: Water**

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.0295 | U | 0.102 | 0.102 | 1.00 | 0.188 | pCi/L | 05/12/23 11:17 | 06/06/23 08:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.8* | | *30 - 110* | *05/12/23 11:17* | *06/06/23 08:28* | *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 | 0.525 | U | 0.361 | 0.365 | 1.00 | 0.534 | pCi/L | 05/12/23 12:20 | 06/02/23 13:20 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.8* | | *30 - 110* | *05/12/23 12:20* | *06/02/23 13:20* | *1* |
| *Y Carrier* | *81.7* | | *30 - 110* | *05/12/23 12:20* | *06/02/23 13:20* | *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** | **0.555** | | 0.375 | 0.379 | 5.00 | 0.534 | pCi/L | | 06/07/23 12:07 | 1 |

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

Job ID: 400-236902-2

## Client Sample ID: DUP-20-20230427

**Lab Sample ID: 400-236902-13**

**Date Collected: 04/27/23 12:00**

**Matrix: Water**

**Date Received: 04/29/23 07:44**

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.0389 | U | 0.0853 | 0.0854 | 1.00 | 0.154 | pCi/L | 05/12/23 11:17 | 06/06/23 08:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.0* | | *30 - 110* | *05/12/23 11:17* | *06/06/23 08:28* | *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 | -0.150 | U | 0.311 | 0.311 | 1.00 | 0.619 | pCi/L | 05/12/23 12:20 | 06/02/23 13:20 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.0* | | *30 - 110* | *05/12/23 12:20* | *06/02/23 13:20* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *05/12/23 12:20* | *06/02/23 13:20* | *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 | -0.111 | U | 0.322 | 0.323 | 5.00 | 0.619 | pCi/L | | 06/07/23 12:07 | 1 |

# Definitions/Glossary

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

Job ID: 400-236902-4

## 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

Job ID: 400-236902-4

## Client Sample ID: MW-U1-20230426
**Lab Sample ID: 400-236902-9**
**Date Collected: 04/26/23 11:52**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 611496 | KAC | EET SL | 05/15/23 11:54 |
| Total/NA | Analysis | 9315 | | 1 | 614732 | FLC | EET SL | 06/07/23 06:32 |
| Total/NA | Prep | PrecSep_0 | | | 611507 | KAC | EET SL | 05/15/23 13:17 |
| Total/NA | Analysis | 9320 | | 1 | 614548 | FLC | EET SL | 06/06/23 13:16 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 614752 | SCB | EET SL | 06/07/23 11:57 |

## Client Sample ID: MW-D1-20230426
**Lab Sample ID: 400-236902-10**
**Date Collected: 04/26/23 13:33**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 611496 | KAC | EET SL | 05/15/23 11:54 |
| Total/NA | Analysis | 9315 | | 1 | 614732 | FLC | EET SL | 06/07/23 06:32 |
| Total/NA | Prep | PrecSep_0 | | | 611507 | KAC | EET SL | 05/15/23 13:17 |
| Total/NA | Analysis | 9320 | | 1 | 614548 | FLC | EET SL | 06/06/23 13:16 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 614752 | SCB | EET SL | 06/07/23 11:57 |

## Client Sample ID: MW-D2-20230426
**Lab Sample ID: 400-236902-11**
**Date Collected: 04/26/23 16:51**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 611496 | KAC | EET SL | 05/15/23 11:54 |
| Total/NA | Analysis | 9315 | | 1 | 614732 | FLC | EET SL | 06/07/23 06:36 |
| Total/NA | Prep | PrecSep_0 | | | 611507 | KAC | EET SL | 05/15/23 13:17 |
| Total/NA | Analysis | 9320 | | 1 | 614548 | FLC | EET SL | 06/06/23 13:16 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 614752 | SCB | EET SL | 06/07/23 11:57 |

## Client Sample ID: MW-D3-20230427
**Lab Sample ID: 400-236902-12**
**Date Collected: 04/27/23 08:48**
**Matrix: Water**
**Date Received: 04/29/23 07:44**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 611290 | KAC | EET SL | 05/12/23 11:17 |
| Total/NA | Analysis | 9315 | | 1 | 614545 | SCB | EET SL | 06/06/23 08:28 |
| Total/NA | Prep | PrecSep_0 | | | 611300 | KAC | EET SL | 05/12/23 12:20 |
| Total/NA | Analysis | 9320 | | 1 | 614272 | SCB | EET SL | 06/02/23 13:20 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 614761 | SCB | EET SL | 06/07/23 12:07 |

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

## Rad

### Prep Batch: 611290

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | PrecSep-21 | |
| MB 160-611290/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-611290/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-611290/3-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

### Prep Batch: 611300

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-12 | MW-D3-20230427 | Total/NA | Water | PrecSep_0 | |
| MB 160-611300/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-611300/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-611300/3-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

### Prep Batch: 611496

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | PrecSep-21 | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | PrecSep-21 | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | PrecSep-21 | |
| MB 160-611496/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-611496/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-611496/3-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

### Prep Batch: 611507

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-236902-9 | MW-U1-20230426 | Total/NA | Water | PrecSep_0 | |
| 400-236902-10 | MW-D1-20230426 | Total/NA | Water | PrecSep_0 | |
| 400-236902-11 | MW-D2-20230426 | Total/NA | Water | PrecSep_0 | |
| MB 160-611507/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-611507/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-611507/3-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

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

**Lab Sample ID: MB 160-611290/1-A**
**Matrix: Water**
**Analysis Batch: 614545**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 611290**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.002034 | U | 0.0564 | 0.0564 | 1.00 | 0.122 | pCi/L | 05/12/23 11:17 | 06/06/23 08:27 | 1 |

| *Carrier* | *MB %Yield* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *90.5* | | *30 - 110* | *05/12/23 11:17* | *06/06/23 08:27* | *1* |

**Lab Sample ID: LCS 160-611290/2-A**
**Matrix: Water**
**Analysis Batch: 614545**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 611290**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 10.49 | | 1.15 | 1.00 | 0.119 | pCi/L | 93 | 75 - 113 | | |

| *Carrier* | *LCS %Yield* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *91.0* | | *30 - 110* |

**Lab Sample ID: LCSD 160-611290/3-A**
**Matrix: Water**
**Analysis Batch: 614545**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 611290**

| Analyte | | | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 10.12 | | 1.11 | 1.00 | 0.128 | pCi/L | 89 | 75 - 113 | 0.16 | 1 |

| *Carrier* | *LCSD %Yield* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *92.0* | | *30 - 110* |

**Lab Sample ID: MB 160-611496/1-A**
**Matrix: Water**
**Analysis Batch: 614731**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 611496**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | -0.02874 | U | 0.173 | 0.173 | 1.00 | 0.357 | pCi/L | 05/15/23 11:54 | 06/07/23 06:54 | 1 |

| *Carrier* | *MB %Yield* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *77.3* | | *30 - 110* | *05/15/23 11:54* | *06/07/23 06:54* | *1* |

**Lab Sample ID: LCS 160-611496/2-A**
**Matrix: Water**
**Analysis Batch: 614731**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 611496**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 9.314 | | 1.20 | 1.00 | 0.303 | pCi/L | 82 | 75 - 113 | | |

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

**Lab Sample ID: LCS 160-611496/2-A**
**Matrix: Water**
**Analysis Batch: 614731**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 611496**

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 82.3 | | 30 - 110 |

**Lab Sample ID: LCSD 160-611496/3-A**
**Matrix: Water**
**Analysis Batch: 614731**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 611496**

| Analyte | | | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 11.37 | | 1.43 | 1.00 | 0.330 | pCi/L | 100 | 75 - 113 | 0.78 | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 72.5 | | 30 - 110 |

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

**Lab Sample ID: MB 160-611300/1-A**
**Matrix: Water**
**Analysis Batch: 614272**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 611300**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | 0.3316 | U | 0.352 | 0.354 | 1.00 | 0.572 | pCi/L | 05/12/23 12:20 | 06/02/23 13:19 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Ba Carrier | 90.5 | | 30 - 110 | 05/12/23 12:20 | 06/02/23 13:19 | 1 |
| Y Carrier | 84.8 | | 30 - 110 | 05/12/23 12:20 | 06/02/23 13:19 | 1 |

**Lab Sample ID: LCS 160-611300/2-A**
**Matrix: Water**
**Analysis Batch: 614272**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 611300**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 8.15 | 9.475 | | 1.34 | 1.00 | 0.589 | pCi/L | 116 | 75 - 125 | | |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 91.0 | | 30 - 110 |
| Y Carrier | 80.9 | | 30 - 110 |

**Lab Sample ID: LCSD 160-611300/3-A**
**Matrix: Water**
**Analysis Batch: 614272**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 611300**

| Analyte | | | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 8.15 | 8.439 | | 1.23 | 1.00 | 0.611 | pCi/L | 104 | 75 - 125 | 0.40 | 1 |

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

**Lab Sample ID: LCSD 160-611300/3-A**
**Matrix: Water**
**Analysis Batch: 614272**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 611300**

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 92.0 | | 30 - 110 |
| Y Carrier | 81.2 | | 30 - 110 |

**Lab Sample ID: MB 160-611507/1-A**
**Matrix: Water**
**Analysis Batch: 614547**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 611507**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | 0.1895 | U | 0.393 | 0.394 | 1.00 | 0.683 | pCi/L | 05/15/23 13:17 | 06/06/23 13:06 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Ba Carrier | 77.3 | | 30 - 110 | 05/15/23 13:17 | 06/06/23 13:06 | 1 |
| Y Carrier | 80.1 | | 30 - 110 | 05/15/23 13:17 | 06/06/23 13:06 | 1 |

**Lab Sample ID: LCS 160-611507/2-A**
**Matrix: Water**
**Analysis Batch: 614547**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 611507**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 8.14 | 10.25 | | 1.43 | 1.00 | 0.654 | pCi/L | 126 | 75 - 125 | | |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 82.3 | | 30 - 110 |
| Y Carrier | 78.9 | | 30 - 110 |

**Lab Sample ID: LCSD 160-611507/3-A**
**Matrix: Water**
**Analysis Batch: 614547**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 611507**

| Analyte | | | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 8.14 | 9.754 | | 1.42 | 1.00 | 0.680 | pCi/L | 120 | 75 - 125 | 0.18 | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 72.5 | | 30 - 110 |
| Y Carrier | 82.6 | | 30 - 110 |

Eurofins Pensacola
3355 McLemore Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custody Record

**Client Information**

Client Contact: Dawit Yifru
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Phone: 678-202-9569
Email: dyifru@geosyntec.com
Project Name: Crisp County CCR
Site: Crisp County Power

Sampler: Tristan Orndorff
Phone: 404-625-0058
PWSID:
Due Date Requested:
TAT Requested (days): Standard
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 40007960
SSOW#:

Lab PM: Whitmire, Cheyenne R
E-Mail: Cheyenne.Whitmire@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-DH-20230426 | 04/26/23 | 16:45 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-DS-20230427 | 04/27/23 | 08:51 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D6-20230426 | 04/26/23 | 15:10 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D7-20230427 | 04/27/23 | 10:37 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | | |
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| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |

400-236902 CC

**Possible Hazard Identification**
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, (II), III, IV, Other (specify)

**Sample Disposal ( A fee may be assessed if samples are retained)**
☐ Return To Client ☒ Disposal By Lab ☐ Archive

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Tristan Orndorff | Date/Time: 4/28/23 12:45 | Company: Geosyntec | Received by: | Date/Time: 4-29-2 |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: |

3355 McLemore Drive
Pensacola, [illegible]14
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custody Record

| Client Information | Sampler: Trestan Ornduff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
|---|---|---|---|
| Client Contact: Dawit Yifru | Phone: 484-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Company: Geosyntec Consultants, Inc. | PWSID: | | |
| Address: 1255 Roberts Blvd, NW Suite 200 | Due Date Requested: | | |
| City: Kennesaw | TAT Requested (days): Standard | | |
| State, Zip: GA, 30144 | Compliance Project: Δ Yes Δ No | | |
| Phone: (678-202-9569 | PO #: Purchase Order not required | | |
| Email: dyifru@geosyntec.com | WO #: | | |
| Project Name: Crisp County CCR | Project #: 40007960 | | |
| Site: Crisp County Power | SSOW#: | | |

Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-U2-20230426 | 04/26/23 | 13:44 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D8-20230427 | 04/27/23 | 12:07 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| MW-D9-20230427 | 04/27/23 | 12:05 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| DUP-6-20230427 | 04/27/23 | 00:00 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | | |
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| | | | | Water | | | | | | | | | | | |

400-236902 COC

**Possible Hazard Identification**
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retaine**
☐ Return To Client ☒ Disposal By Lab ☐ Archi

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Trestan Ornduff | Date/Time: 4/28/23 12:45 | Company: Geosyntec | Received by: M |
| Relinquished by: | Date/Time: | Company | Received by: Date/Time: 4-29 |

**Eurofins Pensacola**
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custody Record

**Client Information**

| | | | |
|---|---|---|---|
| Client Contact: Dawit Yifru | Sampler: Tristan Orndorff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
| Company: Geosyntec Consultants, Inc. | Phone: 404-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Address: 1255 Roberts Blvd, NW Suite 200 | PWSID: | | |
| City: Kennesaw | Due Date Requested: | | |
| State, Zip: GA, 30144 | TAT Requested (days): Standard | | |
| Phone: 678-202-9569 | Compliance Project: Δ Yes Δ No | | |
| Email: dyifru@geosyntec.com | PO #: Purchase Order not required | | |
| Project Name: Crisp County CCR | WO #: | | |
| Site: Crisp County Power | Project #: 40007960 | | |
| | SSOW#: | | |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-U1-20230426 | 04/26/23 | 11:52 | G | Water | N | N | X | X | X | X | X | X | X | X |
| MW-D1-20230426 | 04/26/23 | 13:33 | G | Water | N | N | X | X | X | X | X | X | X | X |
| MW-D2-20230426 | 04/26/23 | 16:51 | G | Water | N | N | X | X | X | X | X | X | X | X |
| MW-D3-20230427 | 04/27/23 | 08:48 | G | Water | N | N | X | X | X | X | X | X | X | X |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
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| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |

400-236902 COC

**Possible Hazard Identification**
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are ret**
☐ Return To Client ☑ Disposal By Lab ☐ A

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| | | | |
|---|---|---|---|
| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
| Relinquished by: Tristan Orndorff | Date/Time: 4/28/23 12:45 | Company | Received by: |
| Relinquished by: | Date/Time: | Company | Received by: Date/Time: |

**Eurofins Pensacola**
3355 McLemo Drive
Pensacola, 514
Phone: 850-474-1001 Fax: 850-478-2671

# Chain of Custo Record

| Client Information | Sampler: Tristan Orndorff | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): |
|---|---|---|---|
| Client Contact: Dawit Yifru | Phone: 414-625-0058 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: |
| Company: Geosyntec Consultants, Inc. | PWSID: | | |
| Address: 1255 Roberts Blvd, NW Suite 200 | Due Date Requested: | | |
| City: Kennesaw | TAT Requested (days): standard | | |
| State, Zip: GA, 30144 | Compliance Project: Δ Yes Δ No | | |
| Phone: 678-202-9569 | PO #: Purchase Order not required | | |
| Email: dyifru@geosyntec.com | WO #: | | |
| Project Name: Crisp County CCR | Project #: 40007960 | | |
| Site: Crisp County Power | SSOW#: | | |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC | SM4500_Cl_E - Chloride | 6020 - Sb,As,B,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 | FieldSampling - Field pH | Total Number of containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DUP-20-20230427 | 04/27/23 | 00:00 | G | Water | N | N | X | X | X | X | X | X | X | X | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
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| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |

*Possible Hazard Identification*
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retain*
☐ Return To Client ☑ Disposal By Lab ☐ Arch

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Tristan Orndorff | Date/Time: 4/28/23 12:45 | Company Geosyntec | Received by: |
| Relinquished by: | Date/Time: | Company | Received by: |

Date/Time:
Date/Time:

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-4

**Login Number: 236902**
**List Number: 1**
**Creator: Whitley, Adrian**

**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. | 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 | 1.4, 3.7, 3.6, 2.3°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 <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 400-236902-4

**Login Number: 236902**
**List Number: 2**
**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**
**List Creation: 05/02/23 01:44 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | N/A | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| 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: 400-236902-4

## 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 | 04-06-25 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-25 |
| Arizona | State | AZ0813 | 12-08-23 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 * |
| California | State | 2886 | 06-30-23 |
| Florida | NELAP | E87689 | 06-30-23 |
| HI - RadChem Recognition | State | n/a | 06-30-23 |
| Illinois | NELAP | 200023 | 11-30-23 |
| Iowa | State | 373 | 12-01-24 |
| Kansas | NELAP | E-10236 | 10-31-23 |
| Kentucky (DW) | State | KY90125 | 12-31-23 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-23 |
| Louisiana (All) | NELAP | 04080 | 06-30-23 |
| Louisiana (DW) | State | LA011 | 12-31-23 |
| Maryland | State | 310 | 09-30-23 |
| MI - RadChem Recognition | State | 9005 | 06-30-23 |
| Missouri | State | 780 | 06-30-25 |
| Nevada | State | MO000542020-1 | 07-31-23 |
| New Jersey | NELAP | MO002 | 06-30-23 |
| New York | NELAP | 11616 | 03-31-24 |
| North Carolina (DW) | State | 29700 | 07-31-23 |
| North Dakota | State | R-207 | 06-30-23 |
| Oklahoma | NELAP | 9997 | 08-31-23 |
| Oregon | NELAP | 4157 | 09-01-23 |
| Pennsylvania | NELAP | 68-00540 | 02-28-24 |
| South Carolina | State | 85002001 | 06-30-23 |
| Texas | NELAP | T104704193 | 07-31-23 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-23 |
| USDA | US Federal Programs | P330-17-00028 | 05-18-26 |
| Utah | NELAP | MO000542021-14 | 07-31-23 |
| Virginia | NELAP | 10310 | 06-14-23 |
| Washington | State | C592 | 08-30-23 |
| West Virginia DEP | State | 381 | 10-31-23 |

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

# APPENDIX C

# Statistical Calculations and Time-series Graphs

# Prediction Limit

CCPC Plant Crisp Ash Pond Site  Client: Geosyntec  Data: Sanitas_Statistics Sampling Events 1 through 10  Printed 7/8/2023, 8:05 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | %NDs | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boron (mg/L)** | **MW-D1** | **0.05** | **n/a** | **4/26/2023** | **0.1** | **Yes** | **21** | **71.43** | **n/a** | **0.003862** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **MW-D2** | **0.05** | **n/a** | **4/26/2023** | **0.12** | **Yes** | **21** | **71.43** | **n/a** | **0.003862** | **NP Inter (NDs) 1 of 2** |
| **Boron (mg/L)** | **MW-D3** | **0.05** | **n/a** | **4/27/2023** | **0.17** | **Yes** | **21** | **71.43** | **n/a** | **0.003862** | **NP Inter (NDs) 1 of 2** |
| **Calcium (mg/L)** | **MW-D1** | **39.53** | **n/a** | **4/26/2023** | **68** | **Yes** | **20** | **0** | **No** | **0.002505** | **Param Inter 1 of 2** |
| **Calcium (mg/L)** | **MW-D2** | **39.53** | **n/a** | **4/26/2023** | **130** | **Yes** | **20** | **0** | **No** | **0.002505** | **Param Inter 1 of 2** |
| **Calcium (mg/L)** | **MW-D3** | **39.53** | **n/a** | **4/27/2023** | **87** | **Yes** | **20** | **0** | **No** | **0.002505** | **Param Inter 1 of 2** |
| Chloride (mg/L) | MW-D1 | 9.8 | n/a | 4/26/2023 | 4.1 | No | 20 | 5 | n/a | 0.004138 | NP Inter (normality) ... |
| Chloride (mg/L) | MW-D2 | 9.8 | n/a | 4/26/2023 | 3 | No | 20 | 5 | n/a | 0.004138 | NP Inter (normality) ... |
| Chloride (mg/L) | MW-D3 | 9.8 | n/a | 4/27/2023 | 2.6 | No | 20 | 5 | n/a | 0.004138 | NP Inter (normality) ... |
| Field pH (SU) | MW-D1 | 9.355 | 5.789 | 4/26/2023 | 7.09 | No | 21 | 0 | No | 0.001253 | Param Inter 1 of 2 |
| Field pH (SU) | MW-D2 | 9.355 | 5.789 | 4/26/2023 | 6.78 | No | 21 | 0 | No | 0.001253 | Param Inter 1 of 2 |
| Field pH (SU) | MW-D3 | 9.355 | 5.789 | 4/27/2023 | 6.56 | No | 21 | 0 | No | 0.001253 | Param Inter 1 of 2 |
| Fluoride (mg/L) | MW-D1 | 0.1006 | n/a | 4/26/2023 | 0.083J | No | 21 | 14.29 | ln(x) | 0.002505 | Param Inter 1 of 2 |
| Fluoride (mg/L) | MW-D2 | 0.1006 | n/a | 4/26/2023 | 0.05ND | No | 21 | 14.29 | ln(x) | 0.002505 | Param Inter 1 of 2 |
| **Fluoride (mg/L)** | **MW-D3** | **0.1006** | **n/a** | **4/27/2023** | **0.12** | **Yes** | **21** | **14.29** | **ln(x)** | **0.002505** | **Param Inter 1 of 2** |
| **Sulfate (mg/L)** | **MW-D1** | **8.867** | **n/a** | **4/26/2023** | **26** | **Yes** | **20** | **10** | **n/a** | **0.004138** | **NP Inter (normality) ...** |
| **Sulfate (mg/L)** | **MW-D2** | **8.867** | **n/a** | **4/26/2023** | **14** | **Yes** | **20** | **10** | **n/a** | **0.004138** | **NP Inter (normality) ...** |
| **Sulfate (mg/L)** | **MW-D3** | **8.867** | **n/a** | **4/27/2023** | **28** | **Yes** | **20** | **10** | **n/a** | **0.004138** | **NP Inter (normality) ...** |
| **Total Dissolved Solids (mg/L)** | **MW-D1** | **142.5** | **n/a** | **4/26/2023** | **200** | **Yes** | **20** | **0** | **No** | **0.002505** | **Param Inter 1 of 2** |
| **Total Dissolved Solids (mg/L)** | **MW-D2** | **142.5** | **n/a** | **4/26/2023** | **370** | **Yes** | **20** | **0** | **No** | **0.002505** | **Param Inter 1 of 2** |
| **Total Dissolved Solids (mg/L)** | **MW-D3** | **142.5** | **n/a** | **4/27/2023** | **270** | **Yes** | **20** | **0** | **No** | **0.002505** | **Param Inter 1 of 2** |

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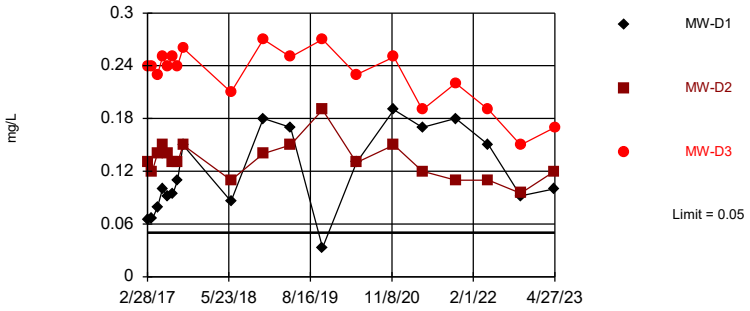
Exceeds Limit: MW-D1, MW-D2, MW-D3

## Prediction Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 71.43% NDs. Annual per-constituent alpha = 0.02295. Individual comparison alpha = 0.003862 (1 of 2). Comparing 3 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron Analysis Run 6/13/2023 10:58 AM View: Sanitas Statistics Events 1 through 20

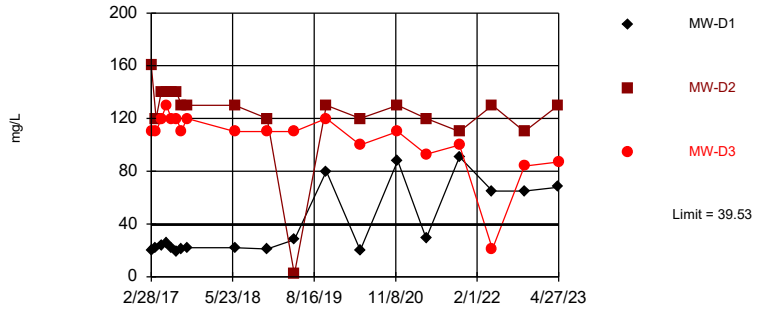
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG

Exceeds Limit: MW-D1, MW-D2, MW-D3

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=34.8, Std. Dev.=2.505, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9621, critical = 0.868. Kappa = 1.888 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Calcium Analysis Run 6/13/2023 10:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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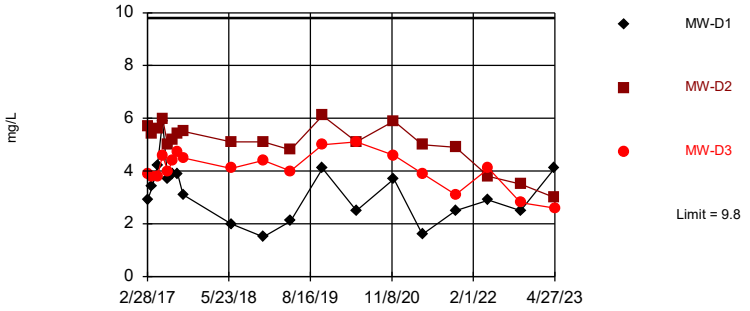
Within Limit

## 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 20 background values. 5% NDs. Annual per-constituent alpha = 0.02457. Individual comparison alpha = 0.004138 (1 of 2). Comparing 3 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Chloride Analysis Run 6/13/2023 10:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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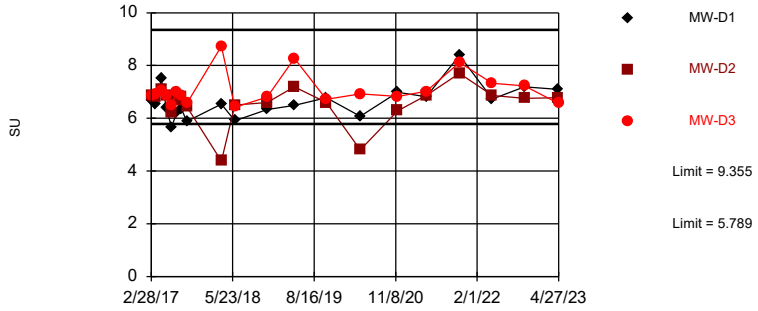
Within Limits

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=7.572, Std. Dev.=0.9498, n=21. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8747, critical = 0.873. Kappa = 1.877 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001253. Comparing 3 points to limit.

Constituent: Field pH Analysis Run 6/13/2023 10:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/13/2023 11:01 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-U1 (bg) | MW-D2 | MW-D3 |
|---|---|---|---|---|
| 2/28/2017 | 0.065 | <0.05 | 0.13 | 0.24 |
| 3/27/2017 | 0.066 | <0.05 | 0.12 | 0.24 |
| 4/24/2017 | 0.079 | <0.05 | 0.14 | 0.23 |
| 5/22/2017 | 0.1 | <0.05 | 0.15 | 0.25 |
| 6/19/2017 | 0.091 | <0.05 | 0.14 | 0.24 |
| 7/17/2017 | 0.094 | <0.05 | 0.13 | 0.25 |
| 8/14/2017 | 0.11 | <0.05 | 0.13 | 0.24 |
| 9/13/2017 | 0.15 | <0.05 | 0.15 | 0.26 |
| 3/22/2018 | | 0.0077 | | |
| 6/5/2018 | 0.086 | <0.05 | 0.11 | 0.21 |
| 11/29/2018 | 0.18 | <0.05 | 0.14 | 0.27 |
| 4/29/2019 | 0.17 | <0.05 | 0.15 | 0.25 |
| 10/23/2019 | 0.033 | 0.0051 (J) | 0.19 | 0.27 |
| 4/27/2020 | 0.13 | 0.0042 (J) | 0.13 | 0.23 |
| 11/19/2020 | 0.19 | <0.05 | 0.15 | 0.25 |
| 4/26/2021 | 0.17 | <0.05 (^) | 0.12 | 0.19 |
| 10/26/2021 | 0.18 | 0.007 (J) | 0.11 (B) | 0.22 |
| 4/26/2022 | 0.15 | 0.0067 (J) | 0.11 | 0.19 |
| 10/19/2022 | | <0.1 | | |
| 10/20/2022 | 0.092 (J) | | 0.095 (J) | 0.15 |
| 1/18/2023 | | <0.05 (^3+) | | |
| 4/26/2023 | 0.1 (B) | 0.02 (JB) | 0.12 (B) | |
| 4/27/2023 | | | | 0.17 (B) |

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/13/2023 11:01 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 20 | 160 | 110 | 34 |
| 3/27/2017 | 22 | 120 | 110 | 32 |
| 4/24/2017 | 24 | 140 | 120 | 40 |
| 5/22/2017 | 26 | 140 | 130 | 36 |
| 6/19/2017 | 22 | 140 | 120 | 38 |
| 7/17/2017 | 19 (B) | 140 | 120 | 37 (B) |
| 8/14/2017 | 21 | 130 | 110 | 33 |
| 9/13/2017 | 22 | 130 | 120 | 35 |
| 6/5/2018 | 22 | 130 | 110 | 33 |
| 11/29/2018 | 21 | 120 | 110 | 32 |
| 4/29/2019 | 28 | 2 | 110 | 34 |
| 10/23/2019 | 80 | 130 (B) | 120 (B) | 38 |
| 4/27/2020 | 20 | 120 | 100 | 31 |
| 11/19/2020 | 88 | 130 | 110 | 36 |
| 4/26/2021 | 29 | 120 | 93 (B^) | 33 |
| 10/26/2021 | 91 | 110 | 100 | 36 |
| 4/26/2022 | 65 (B) | 130 (B) | 21 (B) | 34 (B) |
| 10/19/2022 | | | | 31 |
| 10/20/2022 | 65 | 110 | 84 | |
| 1/18/2023 | | | | 36 (B) |
| 4/26/2023 | 68 | 130 | | 37 |
| 4/27/2023 | | | 87 | |

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/13/2023 11:01 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-U1 (bg) | MW-D2 | MW-D3 |
|---|---|---|---|---|
| 2/28/2017 | 2.9 | 2.2 | 5.7 (F1) | 3.9 |
| 3/27/2017 | 3.4 | 2.1 | 5.4 | 3.8 |
| 4/24/2017 | 4.2 | 1.8 (J) | 5.6 | 3.8 |
| 5/22/2017 | 5.9 | 2.6 | 6 | 4.6 |
| 6/19/2017 | 3.7 | 1.9 (J) | 5 | 4 |
| 7/17/2017 | 3.9 | 2.2 | 5.2 | 4.4 |
| 8/14/2017 | 3.9 | 2 | 5.4 | 4.7 |
| 9/13/2017 | 3.1 | 2.2 | 5.5 | 4.5 |
| 6/5/2018 | 2 | 1.8 (J) | 5.1 | 4.1 |
| 11/29/2018 | 1.5 (J) | 1.7 (J) | 5.1 | 4.4 |
| 4/29/2019 | 2.1 | 1.4 (J) | 4.8 | 4 |
| 10/23/2019 | 4.1 | 9.8 (D) | 6.1 | 5 |
| 4/27/2020 | 2.5 | 2.4 | 5.1 | 5.1 |
| 11/19/2020 | 3.7 | 2.4 | 5.9 | 4.6 |
| 4/26/2021 | 1.6 (J) | 9.5 (F1D) | 5 | 3.9 |
| 10/26/2021 | 2.5 | 1.7 (J) | 4.9 | 3.1 |
| 4/26/2022 | 2.9 | 1.9 (J) | 3.8 | 4.1 |
| 10/19/2022 | | <2 | | |
| 10/20/2022 | 2.5 | | 3.5 | 2.8 |
| 1/18/2023 | | 2.2 | | |
| 4/26/2023 | 4.1 | 1.7 (J) | 3 | |
| 4/27/2023 | | | | 2.6 |

# Prediction Limit

Constituent: Field pH (SU) Analysis Run 6/13/2023 11:01 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 6.67 | 6.85 | 6.87 | 7.74 |
| 3/27/2017 | 6.55 | 6.83 | 6.92 | 7.78 |
| 4/24/2017 | 7.5 | 7.1 | 7.03 | 7.45 |
| 5/22/2017 | 6.39 | 6.86 | 6.88 | 7.77 |
| 6/19/2017 | 5.66 | 6.22 | 6.47 | 5.07 |
| 7/17/2017 | 6.2 | 6.68 | 7.01 | 6.37 |
| 8/14/2017 | 6.36 | 6.81 | 6.86 | 7.45 |
| 9/13/2017 | 5.88 | 6.44 | 6.56 | 7.63 |
| 3/22/2018 | 6.54 | 4.38 | 8.73 | 7.87 |
| 6/5/2018 | 5.91 | 6.5 | 6.42 | 6.74 |
| 11/29/2018 | 6.33 | 6.6 | 6.8 | 7.72 |
| 4/29/2019 | 6.49 | 7.19 | 8.27 | 7.84 |
| 10/23/2019 | 6.78 | 6.6 | 6.72 | 7.54 |
| 4/27/2020 | 6.08 | 4.8 | 6.93 | 6.05 |
| 11/19/2020 | 6.99 | 6.28 | 6.83 | 7.47 |
| 4/26/2021 | 6.82 | 6.87 | 7.02 | 7.91 |
| 10/26/2021 | 8.38 | 7.7 | 8.11 | 9.28 |
| 4/26/2022 | 6.73 | 6.86 | 7.32 | 8.1 |
| 10/19/2022 | | | | 7.98 |
| 10/20/2022 | 7.19 | 6.75 | 7.23 | |
| 1/18/2023 | | | | 9.43 |
| 4/26/2023 | 7.09 | 6.78 | | 7.82 |
| 4/27/2023 | | | 6.56 | |

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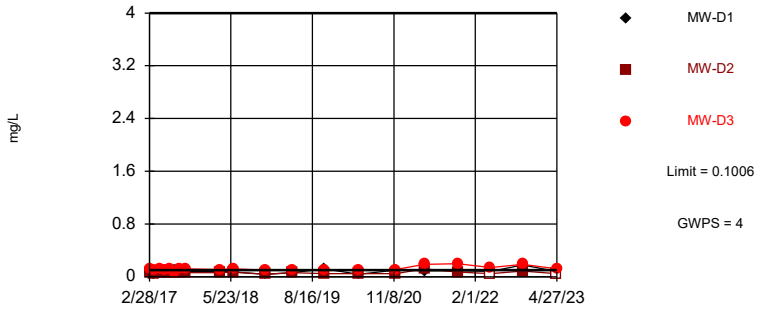
Hollow symbols indicate censored values.

Exceeds Limit: MW-D3

## Prediction Limit

Interwell Parametric




Background Data Summary (based on natural log transformation): Mean=-2.812, Std. Dev.=0.2747, n=21, 14.29% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8866, critical = 0.873. Kappa = 1.877 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Fluoride Analysis Run 6/13/2023 10:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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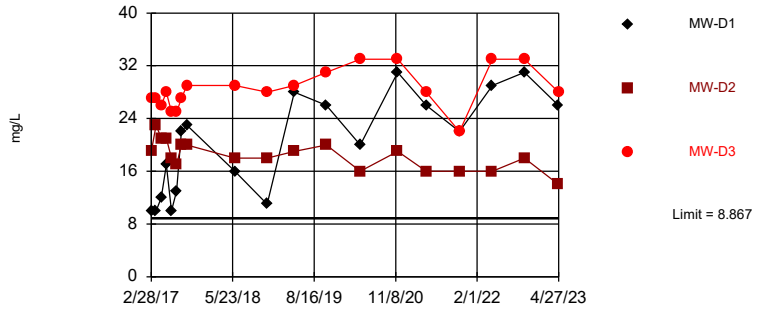
Exceeds Limit: MW-D1, MW-D2, MW-D3

## 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 20 background values. 10% NDs. Annual per-constituent alpha = 0.02457. Individual comparison alpha = 0.004138 (1 of 2). Comparing 3 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate Analysis Run 6/13/2023 10:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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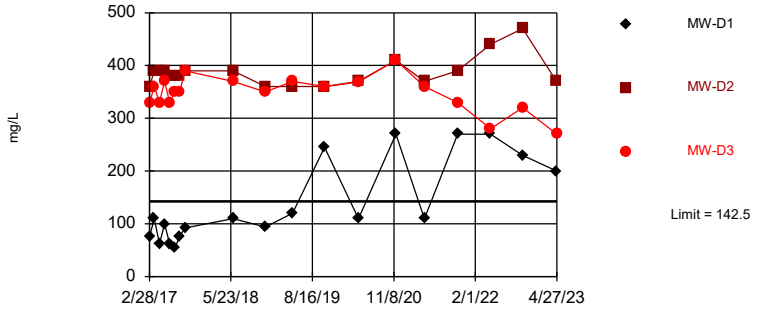
Exceeds Limit: MW-D1, MW-D2, MW-D3

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=100.4, Std. Dev.=22.29, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.868. Kappa = 1.888 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Total Dissolved Solids Analysis Run 6/13/2023 10:59 AM View: Sanitas Statistics Events 1 th

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/13/2023 11:02 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 0.06 (J) | 0.06 (J) | 0.13 | 0.06 (J) |
| 3/27/2017 | 0.05 (J) | 0.05 (J) | 0.11 | 0.04 (J) |
| 4/24/2017 | 0.07 (J) | 0.07 (J) | 0.12 | 0.06 (J) |
| 5/22/2017 | 0.07 (J) | 0.06 (J) | 0.11 | 0.06 (J) |
| 6/19/2017 | 0.08 (J) | 0.06 (J) | 0.12 | 0.06 (J) |
| 7/17/2017 | 0.11 | 0.06 (J) | 0.06 (J) | 0.06 (J) |
| 8/14/2017 | 0.07 (J) | 0.06 (J) | 0.12 | 0.05 (J) |
| 9/13/2017 | 0.075 (J) | 0.061 (J) | 0.12 | 0.058 (J) |
| 3/22/2018 | 0.08 (J) | 0.06 (J) | 0.11 | 0.07 (J) |
| 6/5/2018 | 0.07 (J) | 0.07 (J) | 0.12 | 0.06 (J) |
| 11/29/2018 | 0.04 (J) | 0.04 (J) | 0.1 | 0.04 (J) |
| 4/29/2019 | 0.06 (J) | 0.06 (J) | 0.11 | <0.1 |
| 10/23/2019 | 0.12 (B) | 0.05 (JB) | 0.1 (B) | 0.05 (JB) |
| 4/27/2020 | 0.04 (J) | 0.05 (J) | 0.1 | 0.05 (J) |
| 11/19/2020 | 0.1 | 0.05 (J) | 0.11 | 0.07 (J) |
| 4/26/2021 | 0.09 (JB) | 0.12 (B) | 0.19 (B) | 0.1 (B) |
| 10/26/2021 | 0.09 (J) | 0.07 (J) | 0.2 (F1) | <0.1 |
| 4/26/2022 | 0.08 (J) | <0.1 | 0.14 | 0.07 (J) |
| 10/19/2022 | | | | 0.13 |
| 10/20/2022 | 0.18 | 0.088 (J) | 0.19 | |
| 1/18/2023 | | | | 0.075 (J) |
| 4/26/2023 | 0.083 (J) | <0.1 | | <0.1 |
| 4/27/2023 | | | 0.12 | |

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/13/2023 11:02 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-U1 (bg) | MW-D2 | MW-D3 |
|---|---|---|---|---|
| 2/28/2017 | 10 | 2.8 (J) | 19 | 27 |
| 3/27/2017 | 10 | 2.4 (J) | 23 | 27 |
| 4/24/2017 | 12 | 1.4 (J) | 21 (F1) | 26 |
| 5/22/2017 | 17 | 1.5 (J) | 21 | 28 |
| 6/19/2017 | 10 | 1.8 (J) | 18 | 25 |
| 7/17/2017 | 13 | 2.8 (J) | 17 | 25 |
| 8/14/2017 | 22 | 2.6 (J) | 20 | 27 |
| 9/13/2017 | 23 | 3.1 (J) | 20 | 29 |
| 6/5/2018 | 16 | 2.9 (J) | 18 | 29 |
| 11/29/2018 | 11 | 2 (J) | 18 | 28 |
| 4/29/2019 | 28 | <5 | 19 | 29 |
| 10/23/2019 | 26 | 2.8 (J) | 20 | 31 |
| 4/27/2020 | 20 | 2.6 (J) | 16 | 33 |
| 11/19/2020 | 31 | 2.3 (J) | 19 | 33 |
| 4/26/2021 | 26 | 8.867 (D) | 16 | 28 |
| 10/26/2021 | 22 | <5 | 16 | 22 |
| 4/26/2022 | 29 | 4.3 (J) | 16 | 33 |
| 10/19/2022 | | 2.4 (J) | | |
| 10/20/2022 | 31 | | 18 | 33 |
| 1/18/2023 | | 1.9 (J) | | |
| 4/26/2023 | 26 | 2 (J) | 14 | |
| 4/27/2023 | | | | 28 |

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/13/2023 11:02 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 76 | 360 | 330 | 80 |
| 3/27/2017 | 110 | 390 | 360 | 120 |
| 4/24/2017 | 62 | 390 | 330 | 44 |
| 5/22/2017 | 100 | 390 | 370 | 100 |
| 6/19/2017 | 62 | 380 | 330 | 92 |
| 7/17/2017 | 54 | 380 | 350 | 78 |
| 8/14/2017 | 76 | 380 | 350 | 86 |
| 9/13/2017 | 92 | 390 | 390 | 110 |
| 6/5/2018 | 110 | 390 | 370 | 110 |
| 11/29/2018 | 94 | 360 | 350 | 66 |
| 4/29/2019 | 120 | 360 | 370 | 120 |
| 10/23/2019 | 245 (D) | 360 | 360 | 120 |
| 4/27/2020 | 110 | 370 | 369 (D) | 120 |
| 11/19/2020 | 270 | 410 | 410 | 130 |
| 4/26/2021 | 110 | 370 | 360 | 98 |
| 10/26/2021 | 270 | 390 | 330 | 86 |
| 4/26/2022 | 270 | 440 | 280 | 98 |
| 10/19/2022 | | | | 130 |
| 10/20/2022 | 230 | 470 | 320 | |
| 1/18/2023 | | | | 110 |
| 4/26/2023 | 200 | 370 | | 110 |
| 4/27/2023 | | | 270 | |

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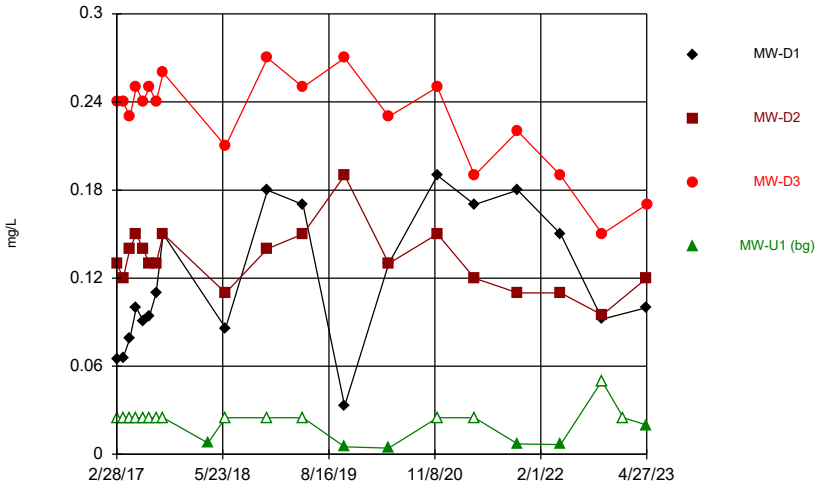
Hollow symbols indicate censored values.

## Time Series




Constituent: Boron Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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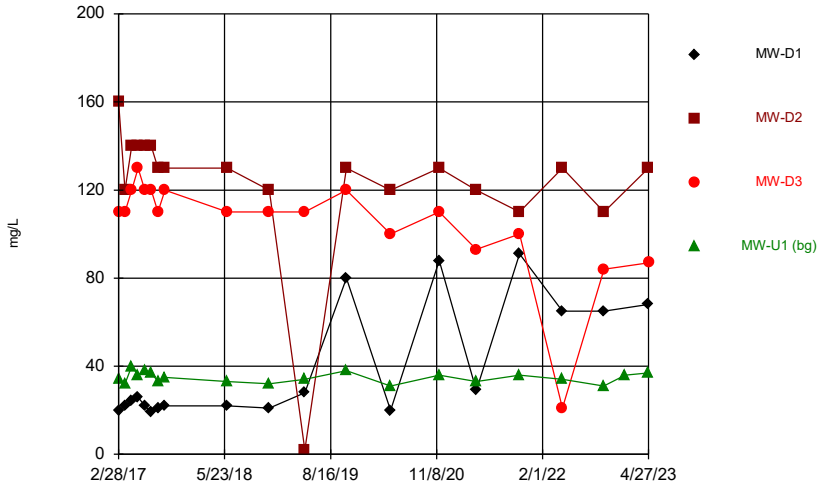
## Time Series




Constituent: Calcium Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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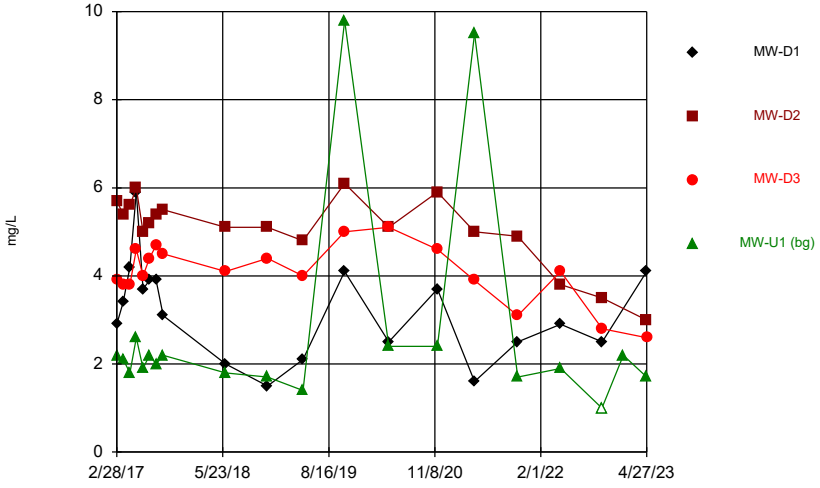
Hollow symbols indicate censored values.

## Time Series




Constituent: Chloride Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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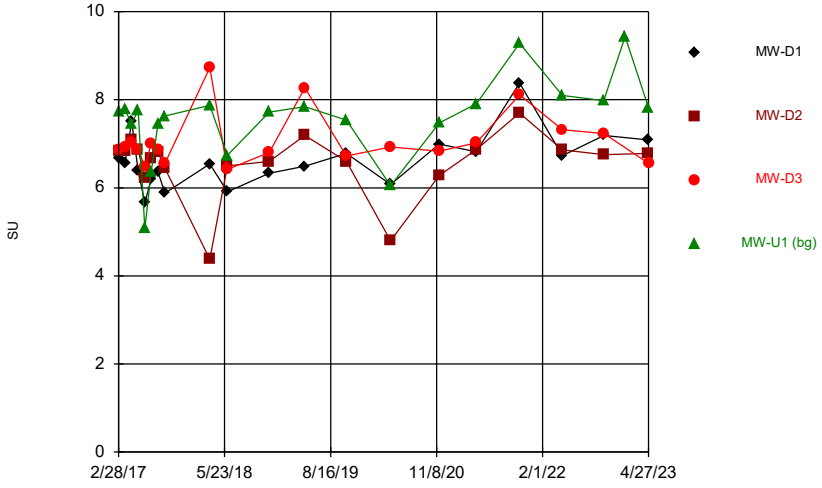
## Time Series




Constituent: Field pH Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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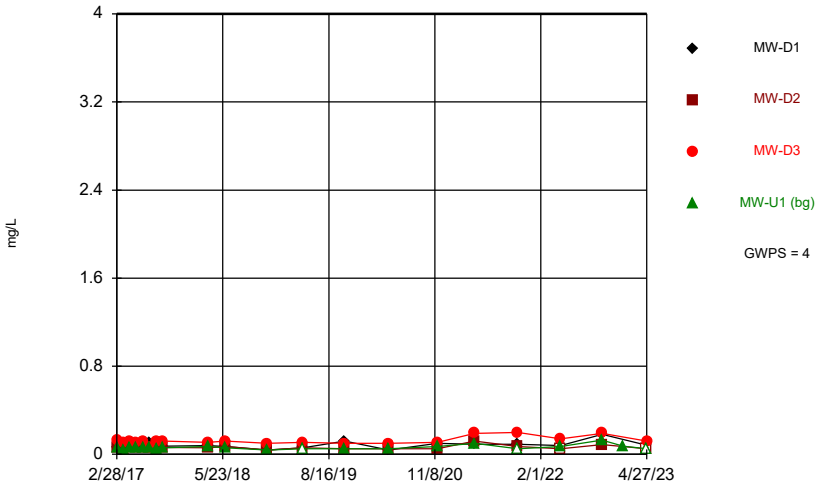
Hollow symbols indicate censored values.

Time Series




Constituent: Fluoride Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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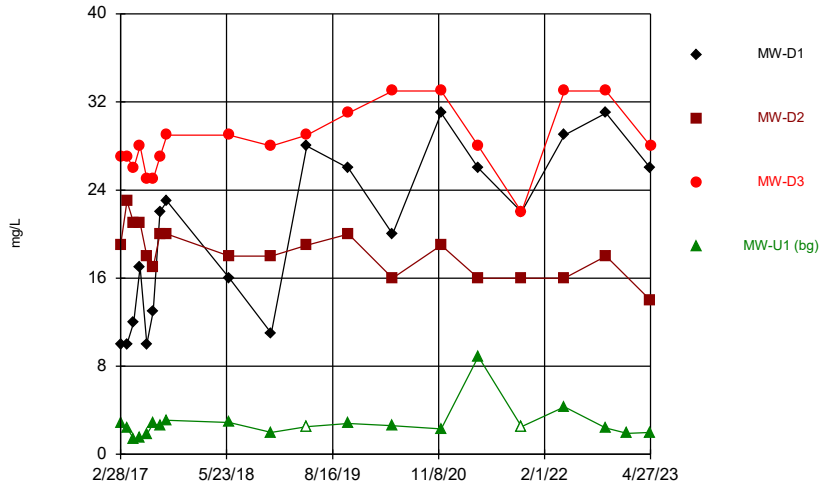
Hollow symbols indicate censored values.

Time Series




Constituent: Sulfate Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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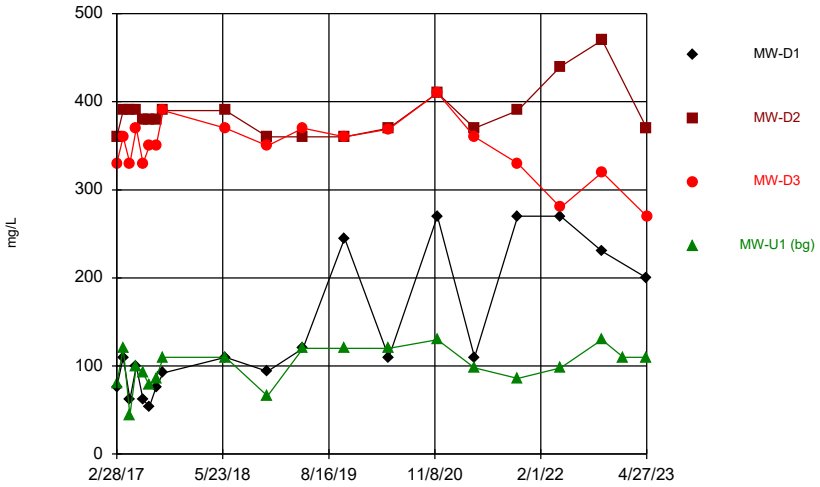
Time Series




Constituent: Total Dissolved Solids Analysis Run 6/13/2023 11:05 AM View: Sanitas Statistics Events 1 th
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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# Summary Report

Constituent: Boron Analysis Run 6/13/2023 11:07 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 78
ND/Trace = 22
Wells = 4
Minimum Value = 0.0042
Maximum Value = 0.27
Mean Value = 0.1225
Median Value = 0.125
Standard Deviation = 0.08062
Coefficient of Variation = 0.6584
Skewness = 0.1589

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 19 | 0 | 0.033 | 0.19 | 0.1177 | 0.1 | 0.04622 | 0.3927 | 0.1017 |
| MW-D2 | 19 | 0 | 0.095 | 0.19 | 0.1324 | 0.13 | 0.02124 | 0.1604 | 0.7341 |
| MW-D3 | 19 | 0 | 0.15 | 0.27 | 0.2289 | 0.24 | 0.03315 | 0.1448 | -0.9583 |
| MW-U1 (bg) | 21 | 15 | 0.0042 | 0.05 | 0.02146 | 0.025 | 0.01043 | 0.4858 | 0.2481 |

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# Summary Report

Constituent: Calcium Analysis Run 6/13/2023 11:07 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 77
ND/Trace = 0
Wells = 4
Minimum Value = 2
Maximum Value = 160
Mean Value = 74.88
Median Value = 80
Standard Deviation = 45.36
Coefficient of Variation = 0.6057
Skewness = 0.08769

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 19 | 0 | 19 | 91 | 39.63 | 24 | 26.37 | 0.6653 | 0.9407 |
| MW-D2 | 19 | 0 | 2 | 160 | 122.7 | 130 | 31.52 | 0.2568 | -3.079 |
| MW-D3 | 19 | 0 | 21 | 130 | 104.5 | 110 | 23.49 | 0.2249 | -2.468 |
| MW-U1 (bg) | 20 | 0 | 31 | 40 | 34.8 | 34.5 | 2.505 | 0.07198 | 0.212 |

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# Summary Report

Constituent: Chloride Analysis Run 6/13/2023 11:07 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 77
ND/Trace = 11
Wells = 4
Minimum Value = 1
Maximum Value = 9.8
Mean Value = 3.747
Median Value = 3.8
Standard Deviation = 1.671
Coefficient of Variation = 0.4461
Skewness = 0.9948

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 19 | 0 | 1.5 | 5.9 | 3.184 | 3.1 | 1.085 | 0.3407 | 0.4889 |
| MW-D2 | 19 | 0 | 3 | 6.1 | 5.058 | 5.1 | 0.8228 | 0.1627 | -1.163 |
| MW-D3 | 19 | 0 | 2.6 | 5.1 | 4.074 | 4.1 | 0.6756 | 0.1659 | -0.6814 |
| MW-U1 (bg) | 20 | 1 | 1 | 9.8 | 2.725 | 2.05 | 2.397 | 0.8796 | 2.551 |

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# Summary Report

Constituent: Field pH Analysis Run 6/13/2023 11:07 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 81
ND/Trace = 0
Wells = 4
Minimum Value = 4.38
Maximum Value = 9.43
Mean Value = 6.965
Median Value = 6.86
Standard Deviation = 0.842
Coefficient of Variation = 0.1209
Skewness = 0.09792

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 20 | 0 | 5.66 | 8.38 | 6.627 | 6.545 | 0.6202 | 0.09358 | 0.9952 |
| MW-D2 | 20 | 0 | 4.38 | 7.7 | 6.555 | 6.765 | 0.7486 | 0.1142 | -1.759 |
| MW-D3 | 20 | 0 | 6.42 | 8.73 | 7.077 | 6.9 | 0.6109 | 0.08632 | 1.524 |
| MW-U1 (bg) | 21 | 0 | 5.07 | 9.43 | 7.572 | 7.74 | 0.9498 | 0.1254 | -0.5839 |

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# Summary Report

Constituent: Fluoride Analysis Run 6/13/2023 11:07 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 81
ND/Trace = 55
Wells = 4
Minimum Value = 0.04
Maximum Value = 0.2
Mean Value = 0.0821
Median Value = 0.07
Standard Deviation = 0.03628
Coefficient of Variation = 0.4419
Skewness = 1.338

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 20 | 0 | 0.04 | 0.18 | 0.0809 | 0.0775 | 0.03113 | 0.3849 | 1.568 |
| MW-D2 | 20 | 2 | 0.04 | 0.12 | 0.06195 | 0.06 | 0.01718 | 0.2773 | 2.065 |
| MW-D3 | 20 | 0 | 0.06 | 0.2 | 0.124 | 0.12 | 0.03378 | 0.2724 | 0.9815 |
| MW-U1 (bg) | 21 | 3 | 0.04 | 0.13 | 0.06252 | 0.06 | 0.02037 | 0.3257 | 1.991 |

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# Summary Report

Constituent: Sulfate Analysis Run 6/13/2023 11:07 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 77
ND/Trace = 19
Wells = 4
Minimum Value = 1.4
Maximum Value = 33
Mean Value = 17.25
Median Value = 19
Standard Deviation = 10.33
Coefficient of Variation = 0.5985
Skewness = -0.25

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 19 | 0 | 10 | 31 | 20.16 | 22 | 7.566 | 0.3754 | -0.075 |
| MW-D2 | 19 | 0 | 14 | 23 | 18.37 | 18 | 2.216 | 0.1207 | 0.05411 |
| MW-D3 | 19 | 0 | 22 | 33 | 28.47 | 28 | 3.062 | 0.1075 | 0.01431 |
| MW-U1 (bg) | 20 | 2 | 1.4 | 8.867 | 2.773 | 2.5 | 1.568 | 0.5654 | 3.116 |

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# Summary Report

Constituent: Total Dissolved Solids Analysis Run 6/13/2023 11:08 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 77
ND/Trace = 0
Wells = 4
Minimum Value = 44
Maximum Value = 470
Mean Value = 241.8
Median Value = 270
Standard Deviation = 133.9
Coefficient of Variation = 0.5539
Skewness = -0.0838

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 19 | 0 | 54 | 270 | 140.1 | 110 | 78.6 | 0.5612 | 0.7263 |
| MW-D2 | 19 | 0 | 360 | 470 | 386.8 | 380 | 28.1 | 0.07263 | 1.66 |
| MW-D3 | 19 | 0 | 270 | 410 | 347.3 | 350 | 33.93 | 0.0977 | -0.6325 |
| MW-U1 (bg) | 20 | 0 | 44 | 130 | 100.4 | 105 | 22.29 | 0.222 | -0.785 |

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# Summary Report

Constituent: Antimony Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 57
ND/Trace = 57
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.00125
Mean Value = 0.00118
Median Value = 0.00125
Standard Deviation = 0.0002577
Coefficient of Variation = 0.2184
Skewness = -3.365

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 14 | 14 | 0.00025 | 0.00125 | 0.001179 | 0.00125 | 0.0002673 | 0.2268 | -3.328 |
| MW-D2 | 14 | 14 | 0.00025 | 0.00125 | 0.001179 | 0.00125 | 0.0002673 | 0.2268 | -3.328 |
| MW-D3 | 14 | 14 | 0.00025 | 0.00125 | 0.001179 | 0.00125 | 0.0002673 | 0.2268 | -3.328 |
| MW-U1 (bg) | 15 | 15 | 0.00025 | 0.00125 | 0.001183 | 0.00125 | 0.0002582 | 0.2182 | -3.474 |

# Summary Report

Constituent: Antimony (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0025 (^*) | <0.0025 (F1) | <0.0025 (^*) | <0.0025 (^*) |
| 3/27/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/24/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 5/22/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 6/19/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 7/17/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 8/14/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/13/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/22/2018 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/29/2019 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/27/2020 | <0.0005 (^) | <0.0005 (^) | <0.0005 | <0.0005 (^) |
| 4/26/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/26/2022 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 1/18/2023 | | | | <0.0025 |
| 4/26/2023 | <0.0025 | <0.0025 | | <0.0025 |
| 4/27/2023 | | | <0.0025 | |

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# Summary Report

Constituent: Arsenic Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 81
ND/Trace = 75
Wells = 4
Minimum Value = 0.000125
Maximum Value = 0.0019
Mean Value = 0.0007278
Median Value = 0.00065
Standard Deviation = 0.0002772
Coefficient of Variation = 0.3809
Skewness = 1.775

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 20 | 20 | 0.000125 | 0.00125 | 0.0006538 | 0.00065 | 0.0001829 | 0.2797 | 0.5665 |
| MW-D2 | 20 | 16 | 0.00027 | 0.00125 | 0.0006765 | 0.00065 | 0.0001838 | 0.2716 | 1.198 |
| MW-D3 | 20 | 6 | 0.00048 | 0.0016 | 0.0008445 | 0.000715 | 0.0003212 | 0.3804 | 1.006 |
| MW-U1 (bg) | 21 | 17 | 0.00015 | 0.0019 | 0.0007362 | 0.00065 | 0.0003518 | 0.4778 | 1.952 |

# Summary Report

Constituent: Arsenic (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0013 | <0.0013 | 0.0015 | <0.0013 |
| 3/27/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/24/2017 | <0.0013 | 0.00083 (J) | 0.00052 (J) | <0.0013 |
| 5/22/2017 | <0.0013 | 0.00048 (J) | 0.00092 (J) | <0.0013 |
| 6/19/2017 | <0.0013 | <0.0013 | 0.00097 (J) | <0.0013 |
| 7/17/2017 | <0.0013 | 0.00095 (J) | 0.0016 | 0.00046 (J) |
| 8/14/2017 | <0.0013 | <0.0013 | 0.00048 (J) | <0.0013 |
| 9/13/2017 | <0.0013 | <0.0013 | 0.00079 (J) | <0.0013 |
| 3/22/2018 | <0.0013 | <0.0013 | 0.0006 (J) | <0.0013 |
| 6/5/2018 | <0.0013 | <0.0013 | 0.00067 (J) | <0.0013 |
| 11/29/2018 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/29/2019 | <0.0013 | <0.0013 | 0.00048 (J) | <0.0013 |
| 10/23/2019 | <0.0013 | <0.0013 | 0.00076 (J) | <0.0013 |
| 4/27/2020 | <0.00025 (^) | 0.00027 (B) | 0.001 (B) | 0.00015 (JB) |
| 11/19/2020 | <0.0013 | <0.0013 | 0.0011 (J) | <0.0013 |
| 4/26/2021 | <0.0013 | <0.0013 | 0.001 (J) | <0.0013 |
| 10/26/2021 | <0.0013 | <0.0013 | <0.0013 | 0.0013 |
| 4/26/2022 | <0.0013 | <0.0013 | <0.0013 | 0.0019 |
| 10/19/2022 | | | | <0.0025 |
| 10/20/2022 | <0.0025 | <0.0025 | <0.0025 | |
| 1/18/2023 | | | | <0.0013 |
| 4/26/2023 | <0.0013 | <0.0013 | | <0.0013 |
| 4/27/2023 | | | <0.0013 | |

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# Summary Report

Constituent: Barium Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 81
ND/Trace = 13
Wells = 4
Minimum Value = 0.0018
Maximum Value = 0.23
Mean Value = 0.07465
Median Value = 0.027
Standard Deviation = 0.0747
Coefficient of Variation = 1.001
Skewness = 0.4944

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 20 | 0 | 0.0095 | 0.027 | 0.01477 | 0.014 | 0.004868 | 0.3297 | 1.126 |
| MW-D2 | 20 | 0 | 0.087 | 0.19 | 0.1439 | 0.145 | 0.02514 | 0.1748 | -0.1826 |
| MW-D3 | 20 | 0 | 0.06 | 0.23 | 0.1411 | 0.145 | 0.0603 | 0.4275 | -0.01103 |
| MW-U1 (bg) | 21 | 0 | 0.0018 | 0.0062 | 0.002529 | 0.0022 | 0.0009398 | 0.3717 | 3.026 |

# Summary Report

Constituent: Barium (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 0.011 | 0.087 | 0.22 | 0.0034 |
| 3/27/2017 | 0.0099 | 0.11 | 0.23 | 0.0026 |
| 4/24/2017 | 0.011 | 0.15 | 0.2 | 0.0022 (J) |
| 5/22/2017 | 0.013 | 0.12 | 0.21 | 0.002 (J) |
| 6/19/2017 | 0.012 | 0.11 | 0.21 | 0.0021 (J) |
| 7/17/2017 | 0.012 | 0.16 | 0.2 | 0.0025 |
| 8/14/2017 | 0.014 | 0.13 | 0.18 | 0.002 (J) |
| 9/13/2017 | 0.014 | 0.14 | 0.18 | 0.0023 (J) |
| 3/22/2018 | 0.0095 | 0.15 | 0.16 | 0.0021 (J) |
| 6/5/2018 | 0.01 | 0.19 | 0.15 | 0.0025 |
| 11/29/2018 | 0.0099 | 0.15 | 0.14 | 0.0018 (J) |
| 4/29/2019 | 0.015 | 0.16 | 0.1 | 0.0018 (J) |
| 10/23/2019 | 0.027 | 0.14 | 0.13 | 0.0022 (J) |
| 4/27/2020 | 0.015 | 0.15 | 0.091 | 0.0022 |
| 11/19/2020 | 0.024 | 0.14 | 0.084 | 0.0062 |
| 4/26/2021 | 0.017 | 0.14 | 0.061 | 0.0021 (J) |
| 10/26/2021 | 0.022 (B) | 0.17 | 0.074 (B) | 0.0024 (JB) |
| 4/26/2022 | 0.015 | 0.14 | 0.072 | 0.0031 |
| 10/19/2022 | | | | 0.0024 (J) |
| 10/20/2022 | 0.018 | 0.15 | 0.069 | |
| 1/18/2023 | | | | 0.0021 (J) |
| 4/26/2023 | 0.016 | 0.19 | | 0.0031 |
| 4/27/2023 | | | 0.06 | |

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# Summary Report

Constituent: Beryllium Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 57
ND/Trace = 57
Wells = 4
Minimum Value = 0.0002
Maximum Value = 0.00125
Mean Value = 0.0009614
Median Value = 0.001
Standard Deviation = 0.0002206
Coefficient of Variation = 0.2295
Skewness = -2.797

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 14 | 14 | 0.0002 | 0.00125 | 0.0009607 | 0.001 | 0.0002289 | 0.2382 | -2.766 |
| MW-D2 | 14 | 14 | 0.0002 | 0.00125 | 0.0009607 | 0.001 | 0.0002289 | 0.2382 | -2.766 |
| MW-D3 | 14 | 14 | 0.0002 | 0.00125 | 0.0009607 | 0.001 | 0.0002289 | 0.2382 | -2.766 |
| MW-U1 (bg) | 15 | 15 | 0.0002 | 0.00125 | 0.0009633 | 0.001 | 0.0002208 | 0.2292 | -2.89 |

# Summary Report

Constituent: Beryllium (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/27/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 4/24/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 5/22/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 6/19/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 7/17/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 8/14/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/13/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/22/2018 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/29/2019 | <0.002 | <0.002 | <0.002 | <0.002 |
| 4/27/2020 | <0.0004 | <0.0004 (^) | <0.0004 (^) | <0.0004 (^) |
| 4/26/2021 | <0.002 | <0.002 | <0.002 | <0.002 |
| 4/26/2022 | <0.002 | <0.002 | <0.002 | <0.002 |
| 1/18/2023 | | | | <0.002 |
| 4/26/2023 | <0.002 | <0.002 | | <0.002 |
| 4/27/2023 | | | <0.002 | |

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# Summary Report

Constituent: Cadmium Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 61
ND/Trace = 61
Wells = 4
Minimum Value = 0.000071
Maximum Value = 0.00125
Mean Value = 0.0005221
Median Value = 0.0005
Standard Deviation = 0.00022
Coefficient of Variation = 0.4215
Skewness = 1.91

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 15 | 15 | 0.0001 | 0.00125 | 0.0005233 | 0.0005 | 0.0002259 | 0.4316 | 1.974 |
| MW-D2 | 15 | 14 | 0.000075 | 0.00125 | 0.0005217 | 0.0005 | 0.0002293 | 0.4395 | 1.822 |
| MW-D3 | 15 | 14 | 0.000071 | 0.00125 | 0.0005214 | 0.0005 | 0.0002299 | 0.4408 | 1.798 |
| MW-U1 (bg) | 16 | 16 | 0.0001 | 0.00125 | 0.0005219 | 0.0005 | 0.0002183 | 0.4183 | 2.057 |

# Summary Report

Constituent: Cadmium (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/27/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/24/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 5/22/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 6/19/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 7/17/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/14/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/13/2017 | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/22/2018 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/29/2019 | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/27/2020 | <0.0002 | 7.5E-05 (J^) | 7.1E-05 (J) | <0.0002 |
| 11/19/2020 | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/26/2021 | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/26/2022 | <0.001 | <0.001 | <0.001 | <0.001 |
| 1/18/2023 | | | | <0.001 |
| 4/26/2023 | <0.001 | <0.001 | | <0.001 |
| 4/27/2023 | | | <0.001 | |

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# Summary Report

Constituent: Chromium Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 73
ND/Trace = 67
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0051
Mean Value = 0.0015
Median Value = 0.00125
Standard Deviation = 0.0007605
Coefficient of Variation = 0.507
Skewness = 2.455

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 18 | 15 | 0.00025 | 0.0034 | 0.001428 | 0.00125 | 0.0006408 | 0.4488 | 1.667 |
| MW-D2 | 18 | 15 | 0.00025 | 0.0038 | 0.001408 | 0.00125 | 0.0007226 | 0.5131 | 2.207 |
| MW-D3 | 18 | 16 | 0.00025 | 0.0037 | 0.001422 | 0.00125 | 0.0007353 | 0.517 | 2.034 |
| MW-U1 (bg) | 19 | 2 | 0.0011 | 0.0051 | 0.001729 | 0.0014 | 0.0009203 | 0.5323 | 2.804 |

# Summary Report

Constituent: Chromium (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 0.0034 | 0.0038 | 0.0029 | 0.0051 |
| 3/27/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0017 (J) |
| 4/24/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0014 (J) |
| 5/22/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0014 (J) |
| 6/19/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0014 (J) |
| 7/17/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0014 (J) |
| 8/14/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0012 (J) |
| 9/13/2017 | <0.0025 | <0.0025 | <0.0025 | 0.0014 (J) |
| 3/22/2018 | <0.0025 | <0.0025 | <0.0025 | 0.0016 (J) |
| 11/29/2018 | <0.0025 | <0.0025 | <0.0025 | 0.0012 (J) |
| 4/29/2019 | <0.0025 | <0.0025 | <0.0025 | 0.0011 (J) |
| 4/27/2020 | <0.0005 (^) | <0.0005 (^) | <0.0005 (^) | 0.0013 |
| 11/19/2020 | <0.0025 (^) | <0.0025 (^) | <0.0025 (^) | 0.0015 (J) |
| 4/26/2021 | <0.0025 | <0.0025 | <0.0025 | 0.0011 (J) |
| 10/26/2021 | <0.0025 | 0.0012 (J) | <0.0025 | 0.0016 (J) |
| 4/26/2022 | 0.0015 (J) | <0.0025 | <0.0025 | 0.0026 |
| 10/19/2022 | | | | <0.005 |
| 10/20/2022 | <0.005 | 0.0026 (J^) | 0.0037 (J^) | |
| 1/18/2023 | | | | <0.0025 |
| 4/26/2023 | 0.0018 (J) | <0.0025 | | 0.0021 (J) |
| 4/27/2023 | | | <0.0025 | |

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# Summary Report

Constituent: Cobalt Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 73
ND/Trace = 72
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0017
Mean Value = 0.00118
Median Value = 0.00125
Standard Deviation = 0.0002747
Coefficient of Variation = 0.2328
Skewness = -2.229

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 18 | 17 | 0.00025 | 0.0016 | 0.001214 | 0.00125 | 0.0002543 | 0.2095 | -3.083 |
| MW-D2 | 18 | 16 | 0.00047 | 0.00125 | 0.001193 | 0.00125 | 0.0001897 | 0.1591 | -3.383 |
| MW-D3 | 18 | 3 | 0.00035 | 0.0017 | 0.00117 | 0.00125 | 0.0003328 | 0.2844 | -0.9239 |
| MW-U1 (bg) | 19 | 19 | 0.00025 | 0.00125 | 0.001145 | 0.00125 | 0.0003153 | 0.2754 | -2.572 |

# Summary Report

Constituent: Cobalt (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0025 | 0.00047 (J) | 0.0011 (J) | <0.0025 |
| 3/27/2017 | <0.0025 | <0.0025 | 0.00079 (J) | <0.0025 |
| 4/24/2017 | <0.0025 | <0.0025 | 0.001 (J) | <0.0025 |
| 5/22/2017 | <0.0025 | <0.0025 | 0.0012 (J) | <0.0025 |
| 6/19/2017 | <0.0025 | <0.0025 | 0.0015 (J) | <0.0025 |
| 7/17/2017 | <0.0025 | <0.0025 | 0.0014 (J) | <0.0025 |
| 8/14/2017 | <0.0025 | <0.0025 | 0.0013 (J) | <0.0025 |
| 9/13/2017 | <0.0025 | <0.0025 | 0.0014 (J) | <0.0025 |
| 3/22/2018 | <0.0025 | <0.0025 | 0.0015 (J) | <0.0005 |
| 6/5/2018 | <0.0025 | <0.0025 | 0.0017 (J) | <0.0025 |
| 11/29/2018 | <0.0025 | <0.0025 | 0.00098 (J) | <0.0025 |
| 4/29/2019 | <0.0025 | <0.0025 | 0.0013 (J) | <0.0025 |
| 10/23/2019 | <0.0025 | <0.0025 | 0.0012 (J) | <0.0025 |
| 4/27/2020 | <0.0005 (^) | 0.001 | 0.00035 (J) | <0.0005 (^) |
| 11/19/2020 | <0.0025 | <0.0025 | 0.00059 (J) | <0.0025 |
| 4/26/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/26/2022 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 1/18/2023 | | | | <0.0025 |
| 4/26/2023 | 0.0016 (J) | <0.0025 | | <0.0025 |
| 4/27/2023 | | | <0.0025 | |

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# Summary Report

Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 80
ND/Trace = 22
Wells = 4
Minimum Value = 0
Maximum Value = 1.28
Mean Value = 0.4257
Median Value = 0.336
Standard Deviation = 0.2986
Coefficient of Variation = 0.7015
Skewness = 0.8654

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 20 | 5 | 0.0994 | 0.833 | 0.4004 | 0.2778 | 0.2507 | 0.6262 | 0.5233 |
| MW-D2 | 20 | 5 | 0.0139 | 1.28 | 0.5079 | 0.4525 | 0.3344 | 0.6584 | 0.6386 |
| MW-D3 | 20 | 6 | 0.0501 | 1.28 | 0.4997 | 0.4895 | 0.3099 | 0.6202 | 1.093 |
| MW-U1 (bg) | 20 | 6 | 0 | 0.86 | 0.2948 | 0.1915 | 0.2617 | 0.8876 | 0.9352 |

# Summary Report

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 0.421 | 0.506 | 0.522 | 0.117 |
| 3/27/2017 | 0.655 | 1.28 | 0.557 | 0 |
| 4/24/2017 | 0.212 | 0.756 | 0.572 | 0.19 |
| 5/22/2017 | 0.186 | 0.333 | 0.457 | 0.133 |
| 6/19/2017 | 0.156 | 0.388 | 0.78 | 0.135 |
| 7/17/2017 | 0.153 | 0.534 | 0.409 | 0.19 |
| 8/14/2017 | 0.287 | 0.452 | 0.339 | 0.302 |
| 9/13/2017 | 0.816 | 0.453 | 1.28 | 0.614 |
| 3/22/2018 | 0.643 | 0.716 | 1.17 | 0.131 |
| 6/5/2018 | 0.149 | 0.0139 | 0.564 | 0 |
| 11/29/2018 | 0.0994 | 0.18 | 0.0501 | 0.0234 |
| 4/29/2019 | <0.457 | <0.42 | 0.594 | <0.386 |
| 10/23/2019 | <0.439 | <0.484 | <0.465 | <0.508 |
| 4/27/2020 | 0.401 | <0.184 | <0.326 | <0.298 |
| 11/19/2020 | 0.833 | <0.57 | <0.614 | 0.615 |
| 4/26/2021 | <0.524 | 0.773 | <0.478 | 0.609 |
| 10/26/2021 | 0.749 | 0.812 | 0.666 | 0.801 |
| 4/26/2022 | <0.537 | 0.783 | <0.528 | <0.716 |
| 10/19/2022 | | | | <0.444 |
| 10/20/2022 | 0.559 | <0.52 | <0.545 | |
| 4/26/2023 | <1.42 | 1.09 | | <1.72 |
| 4/27/2023 | | | 0.555 | |

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# Summary Report

Constituent: Fluoride Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 81
ND/Trace = 55
Wells = 4
Minimum Value = 0.04
Maximum Value = 0.2
Mean Value = 0.0821
Median Value = 0.07
Standard Deviation = 0.03628
Coefficient of Variation = 0.4419
Skewness = 1.338

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 20 | 0 | 0.04 | 0.18 | 0.0809 | 0.0775 | 0.03113 | 0.3849 | 1.568 |
| MW-D2 | 20 | 2 | 0.04 | 0.12 | 0.06195 | 0.06 | 0.01718 | 0.2773 | 2.065 |
| MW-D3 | 20 | 0 | 0.06 | 0.2 | 0.124 | 0.12 | 0.03378 | 0.2724 | 0.9815 |
| MW-U1 (bg) | 21 | 3 | 0.04 | 0.13 | 0.06252 | 0.06 | 0.02037 | 0.3257 | 1.991 |

# Summary Report

Constituent: Fluoride (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 0.06 (J) | 0.06 (J) | 0.13 | 0.06 (J) |
| 3/27/2017 | 0.05 (J) | 0.05 (J) | 0.11 | 0.04 (J) |
| 4/24/2017 | 0.07 (J) | 0.07 (J) | 0.12 | 0.06 (J) |
| 5/22/2017 | 0.07 (J) | 0.06 (J) | 0.11 | 0.06 (J) |
| 6/19/2017 | 0.08 (J) | 0.06 (J) | 0.12 | 0.06 (J) |
| 7/17/2017 | 0.11 | 0.06 (J) | 0.06 (J) | 0.06 (J) |
| 8/14/2017 | 0.07 (J) | 0.06 (J) | 0.12 | 0.05 (J) |
| 9/13/2017 | 0.075 (J) | 0.061 (J) | 0.12 | 0.058 (J) |
| 3/22/2018 | 0.08 (J) | 0.06 (J) | 0.11 | 0.07 (J) |
| 6/5/2018 | 0.07 (J) | 0.07 (J) | 0.12 | 0.06 (J) |
| 11/29/2018 | 0.04 (J) | 0.04 (J) | 0.1 | 0.04 (J) |
| 4/29/2019 | 0.06 (J) | 0.06 (J) | 0.11 | <0.1 |
| 10/23/2019 | 0.12 (B) | 0.05 (JB) | 0.1 (B) | 0.05 (JB) |
| 4/27/2020 | 0.04 (J) | 0.05 (J) | 0.1 | 0.05 (J) |
| 11/19/2020 | 0.1 | 0.05 (J) | 0.11 | 0.07 (J) |
| 4/26/2021 | 0.09 (JB) | 0.12 (B) | 0.19 (B) | 0.1 (B) |
| 10/26/2021 | 0.09 (J) | 0.07 (J) | 0.2 (F1) | <0.1 |
| 4/26/2022 | 0.08 (J) | <0.1 | 0.14 | 0.07 (J) |
| 10/19/2022 | | | | 0.13 |
| 10/20/2022 | 0.18 | 0.088 (J) | 0.19 | |
| 1/18/2023 | | | | 0.075 (J) |
| 4/26/2023 | 0.083 (J) | <0.1 | | <0.1 |
| 4/27/2023 | | | 0.12 | |

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# Summary Report

Constituent: Lead Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 57
ND/Trace = 57
Wells = 4
Minimum Value = 0.000125
Maximum Value = 0.0008
Mean Value = 0.0006082
Median Value = 0.00065
Standard Deviation = 0.0001418
Coefficient of Variation = 0.2332
Skewness = -2.876

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 14 | 13 | 0.000125 | 0.0008 | 0.0006232 | 0.00065 | 0.0001489 | 0.2389 | -2.853 |
| MW-D2 | 14 | 12 | 0.000125 | 0.00065 | 0.0005818 | 0.00065 | 0.0001548 | 0.266 | -2.194 |
| MW-D3 | 14 | 14 | 0.000125 | 0.00065 | 0.0006125 | 0.00065 | 0.0001403 | 0.2291 | -3.328 |
| MW-U1 (bg) | 15 | 14 | 0.000125 | 0.00065 | 0.000615 | 0.00065 | 0.0001356 | 0.2204 | -3.474 |

# Summary Report

Constituent: Lead (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0013 (^) | 0.0005 (J) | <0.0013 (^) | <0.0013 |
| 3/27/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/24/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 5/22/2017 | <0.0013 | <0.0013 | <0.0013 | 0.00065 (J) |
| 6/19/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 7/17/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 8/14/2017 | 0.0008 (J) | 0.00037 (J) | <0.0013 | <0.0013 |
| 9/13/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 3/22/2018 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/29/2019 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/27/2020 | <0.00025 (^) | <0.00025 (^) | <0.00025 (^) | <0.00025 (^) |
| 4/26/2021 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/26/2022 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 1/18/2023 | | | | <0.0013 |
| 4/26/2023 | <0.0013 | <0.0013 | | <0.0013 |
| 4/27/2023 | | | <0.0013 | |

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# Summary Report

Constituent: Lithium Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 65
ND/Trace = 63
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0058
Mean Value = 0.001366
Median Value = 0.00125
Standard Deviation = 0.0007374
Coefficient of Variation = 0.5397
Skewness = 3.636

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 16 | 15 | 0.00025 | 0.0025 | 0.001331 | 0.00125 | 0.0004871 | 0.3659 | 0.7354 |
| MW-D2 | 16 | 14 | 0.00025 | 0.0031 | 0.001372 | 0.00125 | 0.0006202 | 0.4521 | 1.484 |
| MW-D3 | 16 | 13 | 0.00048 | 0.0025 | 0.001355 | 0.00125 | 0.0004693 | 0.3464 | 1.304 |
| MW-U1 (bg) | 17 | 15 | 0.00025 | 0.0058 | 0.001405 | 0.00125 | 0.001176 | 0.8367 | 3.253 |

# Summary Report

Constituent: Lithium (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/27/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/24/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 5/22/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 6/19/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 7/17/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 8/14/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/13/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/22/2018 | <0.005 | <0.005 | <0.005 | 0.00034 (J) |
| 11/29/2018 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/29/2019 | <0.0025 | 0.0011 (J) | 0.0013 (J) | <0.0025 |
| 4/27/2020 | <0.0005 (^) | <0.0005 | 0.00048 (J) | <0.0005 (^) |
| 11/19/2020 | 0.0023 (J) | 0.0031 | 0.0024 (J) | <0.0025 |
| 4/26/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/26/2022 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 1/18/2023 | | | | <0.0025 |
| 4/26/2023 | <0.0025 | <0.0025 | | 0.0058 |
| 4/27/2023 | | | <0.0025 | |

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# Summary Report

Constituent: Mercury Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 57
ND/Trace = 57
Wells = 4
Minimum Value = 0.000077
Maximum Value = 0.00018
Mean Value = 0.0001013
Median Value = 0.0001
Standard Deviation = 0.0000112
Coefficient of Variation = 0.1106
Skewness = 6.068

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 14 | 13 | 0.000077 | 0.0001 | 0.00009836 | 0.0001 | 0.000006147 | 0.0625 | -3.328 |
| MW-D2 | 14 | 12 | 0.0001 | 0.00018 | 0.0001064 | 0.0001 | 0.00002134 | 0.2005 | 3.244 |
| MW-D3 | 14 | 13 | 0.0001 | 0.00011 | 0.0001007 | 0.0001 | 0.000002673 | 0.02654 | 3.328 |
| MW-U1 (bg) | 15 | 14 | 0.000099 | 0.0001 | 0.00009993 | 0.0001 | 2.6e-7 | 0.002584 | -3.474 |

# Summary Report

Constituent: Mercury (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | 7.7E-05 (JB) | 0.00018 (JB) | 0.00011 (JB) | 9.9E-05 (JB) |
| 3/27/2017 | <0.0002 | 0.00011 (J) | <0.0002 | <0.0002 |
| 4/24/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 5/22/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 6/19/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 7/17/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 8/14/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/13/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 3/22/2018 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 4/29/2019 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 4/27/2020 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 4/26/2021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 4/26/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 1/18/2023 | | | | <0.0002 |
| 4/26/2023 | <0.0002 | <0.0002 | | <0.0002 |
| 4/27/2023 | | | <0.0002 | |

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# Summary Report

Constituent: Molybdenum Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 73
ND/Trace = 73
Wells = 4
Minimum Value = 0.001
Maximum Value = 0.01
Mean Value = 0.004579
Median Value = 0.005
Standard Deviation = 0.001901
Coefficient of Variation = 0.4152
Skewness = 0.4692

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 18 | 18 | 0.001 | 0.01 | 0.005194 | 0.005 | 0.001655 | 0.3186 | 0.6585 |
| MW-D2 | 18 | 15 | 0.001 | 0.01 | 0.004656 | 0.005 | 0.002133 | 0.4582 | 0.2962 |
| MW-D3 | 18 | 4 | 0.0017 | 0.0088 | 0.003583 | 0.00305 | 0.001833 | 0.5115 | 1.269 |
| MW-U1 (bg) | 19 | 19 | 0.001 | 0.01 | 0.004868 | 0.005 | 0.001715 | 0.3522 | 0.4422 |

# Summary Report

Constituent: Molybdenum (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.01 | 0.0012 (J) | 0.0088 (J) | <0.01 |
| 3/27/2017 | <0.01 | <0.01 | 0.0023 (J) | <0.01 |
| 4/24/2017 | <0.01 | <0.01 | 0.0018 (J) | <0.01 |
| 5/22/2017 | <0.01 | 0.0025 (J) | 0.0031 (J) | <0.01 |
| 6/19/2017 | <0.01 | 0.0016 (J) | 0.0043 (J) | <0.01 |
| 7/17/2017 | <0.01 | <0.01 | 0.0027 (J) | <0.01 |
| 8/14/2017 | <0.01 | <0.01 | 0.0017 (J) | <0.01 |
| 9/13/2017 | <0.01 | <0.01 | 0.0021 (J) | <0.01 |
| 3/22/2018 | <0.015 | <0.015 | 0.0022 (J) | <0.003 |
| 6/5/2018 | <0.01 | <0.01 | 0.0022 (J) | <0.01 |
| 11/29/2018 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4/29/2019 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4/27/2020 | <0.002 (^) | <0.002 (^) | 0.0019 (J) | <0.002 (^) |
| 11/19/2020 | <0.01 (^) | <0.01 | <0.01 | <0.01 |
| 4/26/2021 | <0.01 | <0.01 | <0.01 | <0.01 |
| 4/26/2022 | <0.01 | <0.01 | 0.003 (J) | <0.01 |
| 10/19/2022 | | | | <0.02 |
| 10/20/2022 | <0.02 | <0.02 | 0.0032 (J) | |
| 1/18/2023 | | | | <0.01 |
| 4/26/2023 | <0.01 | <0.01 | | <0.01 |
| 4/27/2023 | | | 0.0052 (J) | |

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# Summary Report

Constituent: Selenium Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 65
ND/Trace = 61
Wells = 4
Minimum Value = 0.000125
Maximum Value = 0.0028
Mean Value = 0.0006562
Median Value = 0.00065
Standard Deviation = 0.0003325
Coefficient of Variation = 0.5066
Skewness = 4.231

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 16 | 14 | 0.000125 | 0.00083 | 0.0006084 | 0.00065 | 0.0001597 | 0.2626 | -2.073 |
| MW-D2 | 16 | 13 | 0.000125 | 0.001 | 0.0006153 | 0.00065 | 0.0001798 | 0.2922 | -0.9915 |
| MW-D3 | 16 | 11 | 0.000125 | 0.0028 | 0.0007816 | 0.00065 | 0.0006185 | 0.7914 | 2.34 |
| MW-U1 (bg) | 17 | 10 | 0.00039 | 0.00076 | 0.0006218 | 0.00065 | 0.00009139 | 0.147 | -1.576 |

# Summary Report

Constituent: Selenium (mg/L) Analysis Run 7/8/2023 11:50 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0013 | <0.0013 | 0.0028 | <0.0013 |
| 3/27/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/24/2017 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 5/22/2017 | <0.0013 | 0.001 (J) | 0.00037 (J) | 0.00076 (J) |
| 6/19/2017 | <0.0013 | 0.00059 (JB) | 0.001 (JB) | 0.00062 (JB) |
| 7/17/2017 | 0.00033 (J) | 0.00033 (J) | <0.0013 | 0.0007 (J) |
| 8/14/2017 | <0.0013 | <0.0013 | <0.0013 | 0.00058 (J) |
| 9/13/2017 | <0.0013 | <0.0013 | <0.0013 | 0.00041 (J) |
| 3/22/2018 | <0.0013 | <0.0013 | <0.00025 | 0.00039 |
| 11/29/2018 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/29/2019 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/27/2020 | <0.00025 | <0.00025 | 0.00021 (J) | 0.00061 |
| 11/19/2020 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/26/2021 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 4/26/2022 | <0.0013 | <0.0013 | <0.0013 | <0.0013 |
| 1/18/2023 | | | | <0.0013 |
| 4/26/2023 | 0.00083 (J) | <0.0013 | | <0.0013 |
| 4/27/2023 | | | 0.0015 | |

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# Summary Report

Constituent: Thallium Analysis Run 7/8/2023 11:51 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/27/2023, a summary of the selected data set:

Observations = 73
ND/Trace = 71
Wells = 4
Minimum Value = 0.00005
Maximum Value = 0.00026
Mean Value = 0.000202
Median Value = 0.00025
Standard Deviation = 0.00006878
Coefficient of Variation = 0.3405
Skewness = -0.8029

| Well | #Obs. | ND/Trace | Min | Max | Mean | Median | Std.Dev. | CV | Skewness |
|---|---|---|---|---|---|---|---|---|---|
| MW-D1 | 18 | 18 | 0.00005 | 0.00025 | 0.0002389 | 0.00025 | 0.00004714 | 0.1973 | -3.881 |
| MW-D2 | 18 | 8 | 0.000085 | 0.00026 | 0.0001806 | 0.00019 | 0.0000735 | 0.4071 | -0.06857 |
| MW-D3 | 18 | 4 | 0.000095 | 0.00025 | 0.0001469 | 0.00012 | 0.00005894 | 0.4011 | 1.11 |
| MW-U1 (bg) | 19 | 19 | 0.00005 | 0.00025 | 0.0002395 | 0.00025 | 0.00004588 | 0.1916 | -4.007 |

# Summary Report

Constituent: Thallium (mg/L) Analysis Run 7/8/2023 11:51 AM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

| | MW-D1 | MW-D2 | MW-D3 | MW-U1 (bg) |
|---|---|---|---|---|
| 2/28/2017 | <0.0005 | 0.00011 (J) | 0.00013 (J) | <0.0005 |
| 3/27/2017 | <0.0005 | <0.0005 | 0.00011 (J) | <0.0005 |
| 4/24/2017 | <0.0005 | <0.0005 | 9.5E-05 (J) | <0.0005 |
| 5/22/2017 | <0.0005 | 0.00011 (J) | 0.00011 (J) | <0.0005 |
| 6/19/2017 | <0.0005 | 0.00011 (J) | 0.00012 (J) | <0.0005 |
| 7/17/2017 | <0.0005 | 0.00011 (J) | 0.00012 (J) | <0.0005 |
| 8/14/2017 | <0.0005 | 0.00013 (J) | 0.00011 (J) | <0.0005 |
| 9/13/2017 | <0.0005 | 0.00012 (J) | 0.00013 (J) | <0.0005 |
| 3/22/2018 | <0.0005 | <0.0005 | 0.0001 (J) | <0.0005 |
| 6/5/2018 | <0.0005 | 8.5E-05 (J) | 0.00012 (J) | <0.0005 |
| 11/29/2018 | <0.0005 | 8.5E-05 (J) | 0.0001 (J) | <0.0005 |
| 4/29/2019 | <0.0005 | <0.0005 | 0.00011 (J) | <0.0005 |
| 10/23/2019 | <0.0005 | 0.00026 (J) | 0.00017 (J) | <0.0005 |
| 4/27/2020 | <0.0001 (^) | 0.00013 | 0.00012 | <0.0001 (^) |
| 11/19/2020 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 4/26/2021 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 4/26/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 1/18/2023 | | | | <0.0005 |
| 4/26/2023 | <0.0005 | <0.0005 | | <0.0005 |
| 4/27/2023 | | | <0.0005 | |

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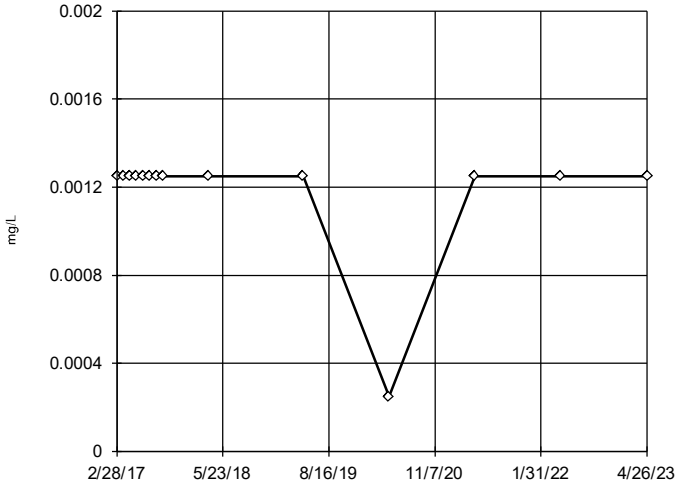
## Tukey's Outlier Screening

MW-D1




n = 14

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 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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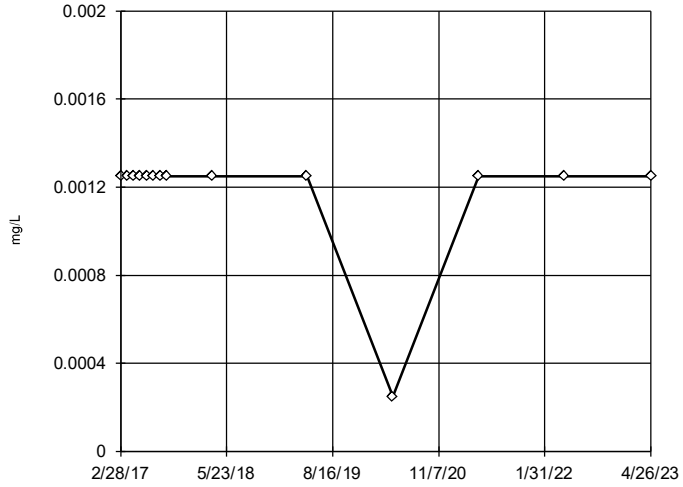
## Tukey's Outlier Screening

MW-D2




n = 14

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 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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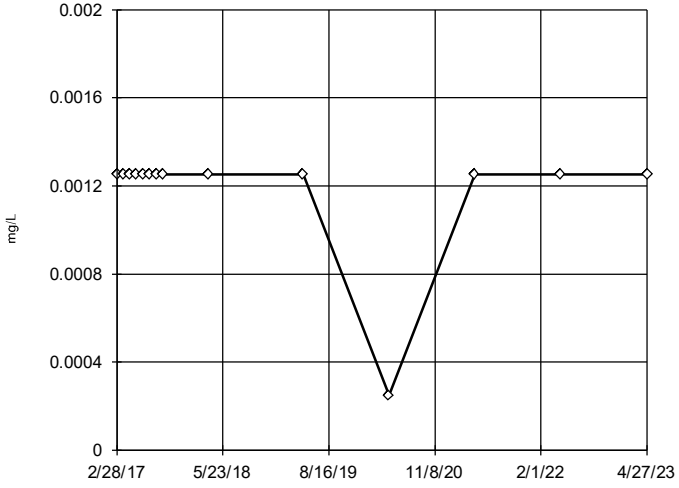
## Tukey's Outlier Screening

MW-D3




n = 14

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 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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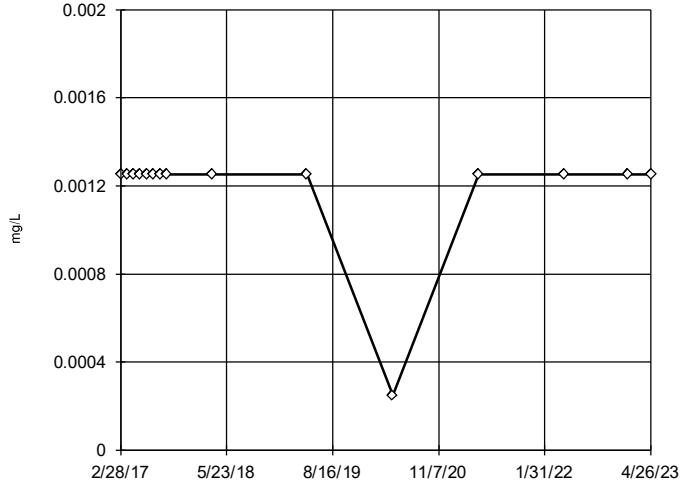
## Tukey's Outlier Screening

MW-U1 (bg)




n = 15

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

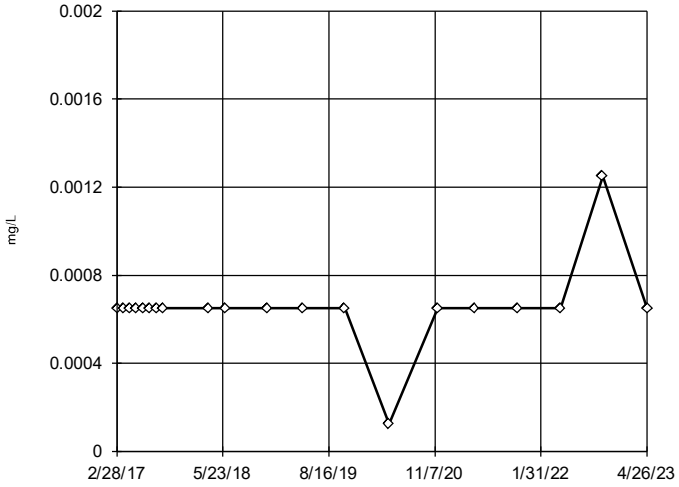
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

## Tukey's Outlier Screening

MW-D1




n = 20

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 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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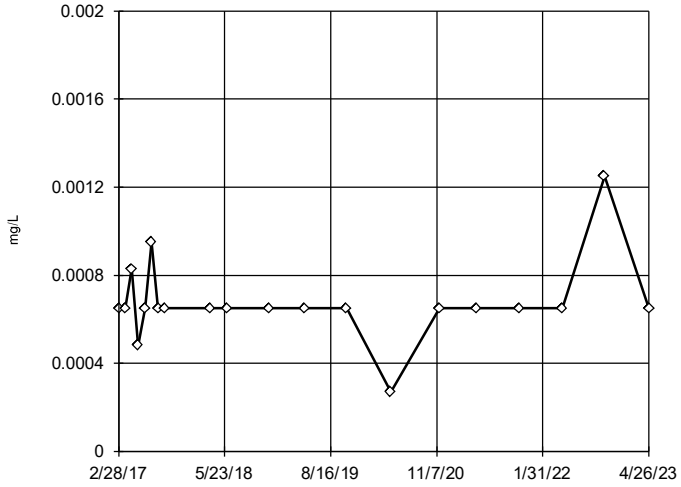
## Tukey's Outlier Screening

MW-D2




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: Arsenic Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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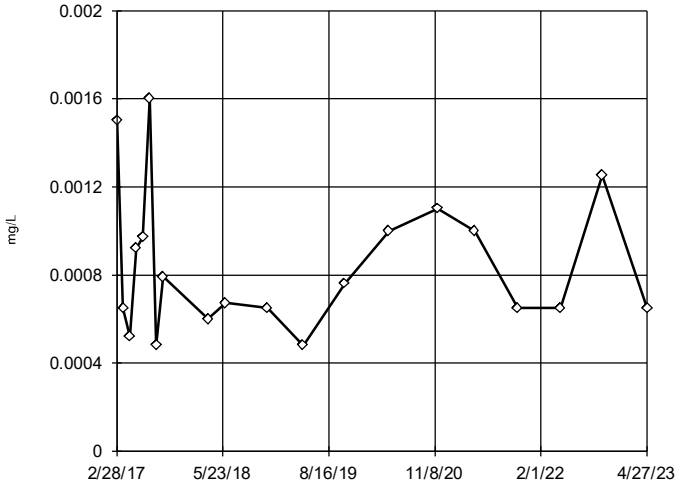
## Tukey's Outlier Screening

MW-D3




n = 20

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 = 0.003641, low cutoff = 0.0001785, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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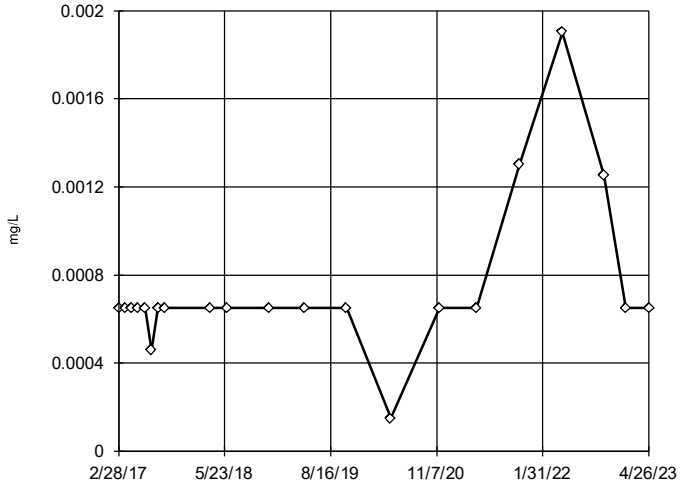
## Tukey's Outlier Screening

MW-U1 (bg)




n = 21

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: Arsenic Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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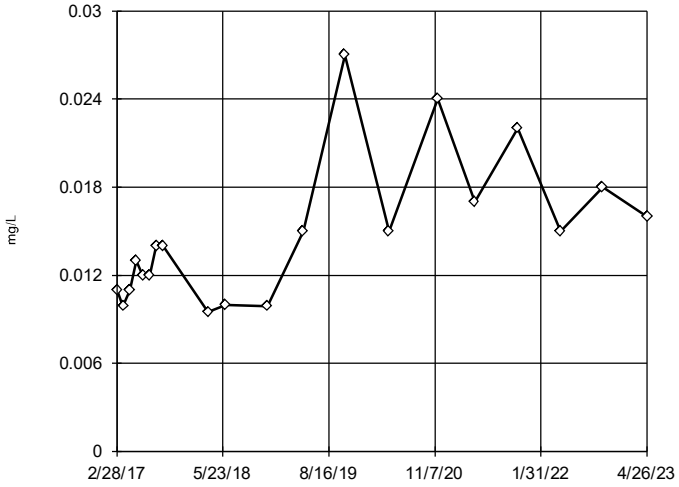
## Tukey's Outlier Screening

MW-D1




n = 20

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 = 0.05559, low cutoff = 0.003264, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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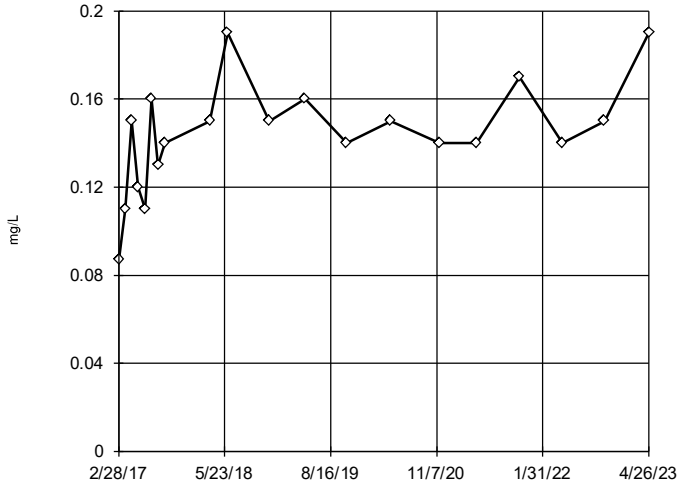
## Tukey's Outlier Screening

MW-D2




n = 20

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.215, low cutoff = 0.075, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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## Tukey's Outlier Screening

MW-D3


n = 20

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.563, low cutoff = -0.284, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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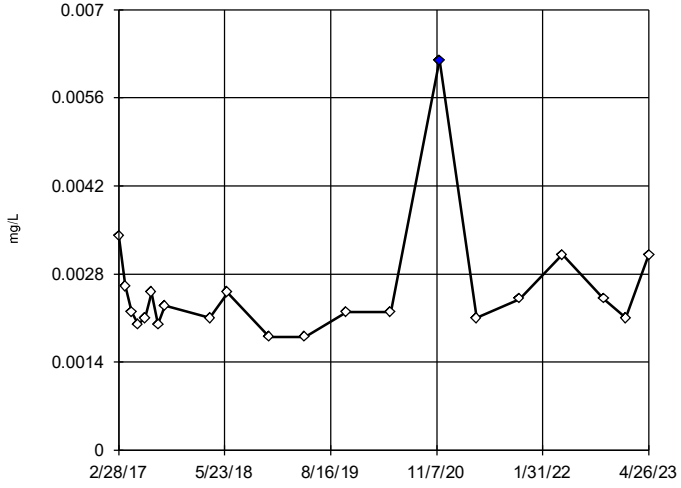
## Tukey's Outlier Screening

MW-U1 (bg)




n = 21

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 = 0.004562, low cutoff = 0.001174, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 7/8/2023 11:57 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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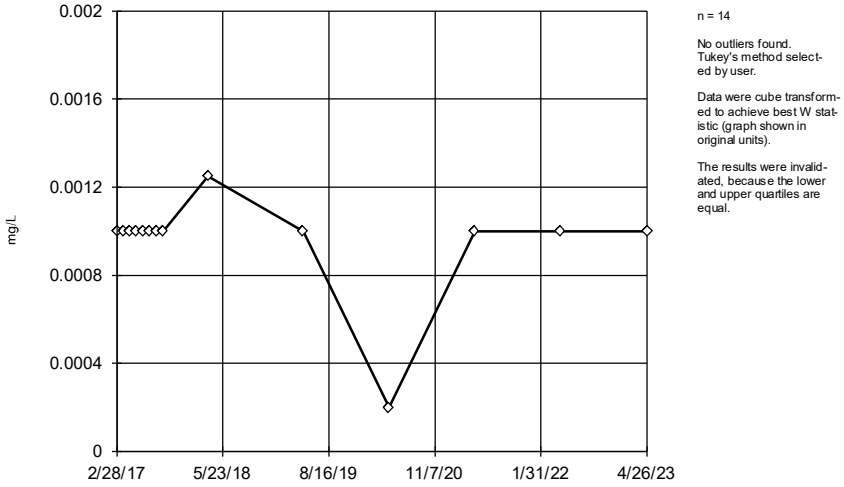
## Tukey's Outlier Screening

MW-D1




n = 14

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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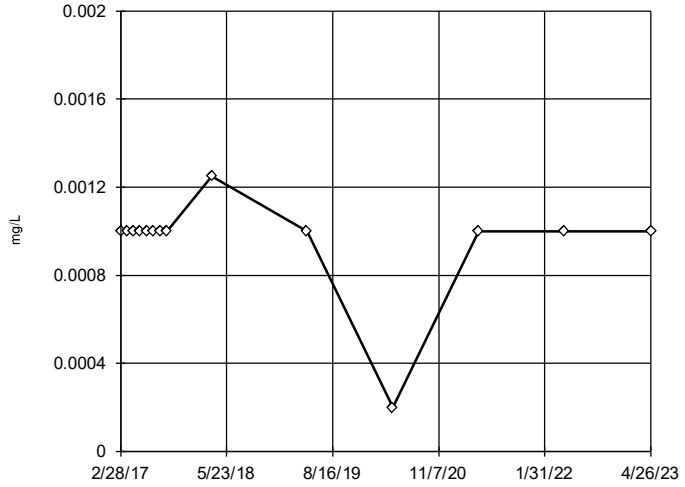
## Tukey's Outlier Screening

MW-D2




n = 14

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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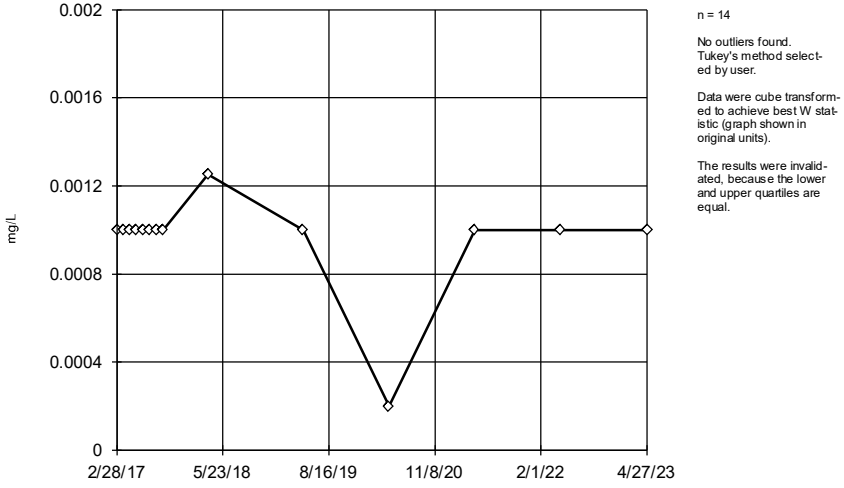
## Tukey's Outlier Screening

MW-D3




n = 14

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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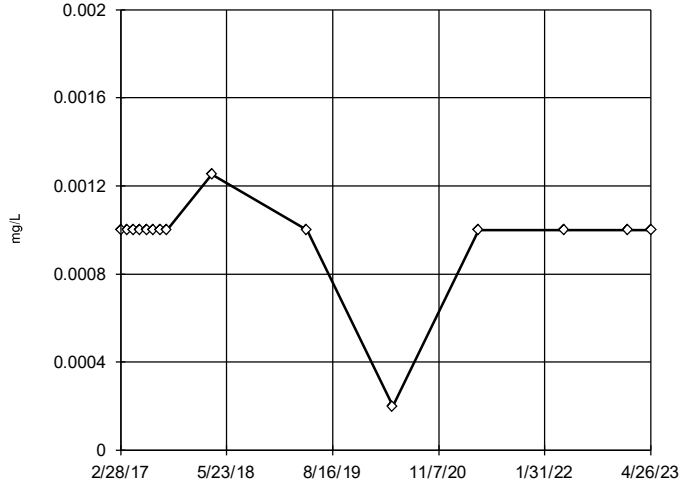
## Tukey's Outlier Screening

MW-U1 (bg)




n = 15

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

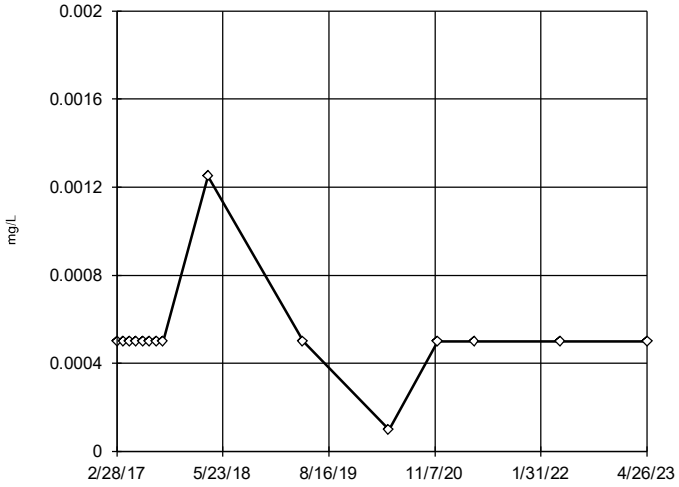
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

## Tukey's Outlier Screening

MW-D1




n = 15

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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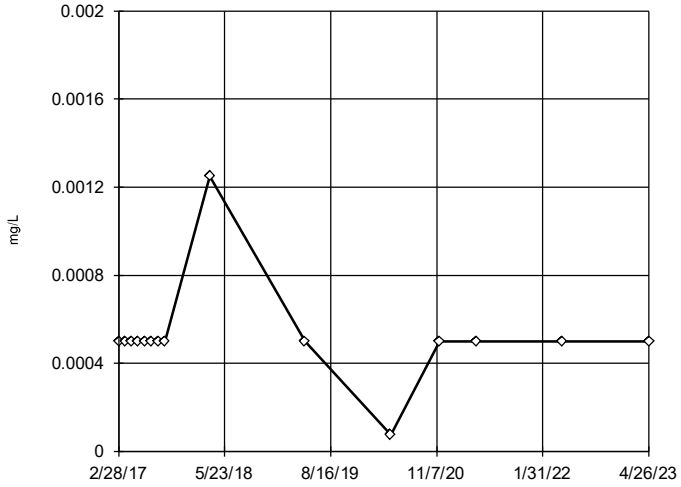
## Tukey's Outlier Screening

MW-D2




n = 15

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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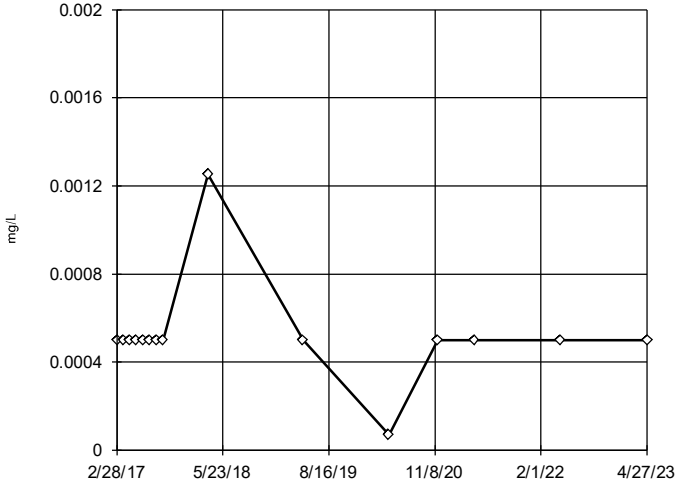
## Tukey's Outlier Screening

MW-D3




n = 15

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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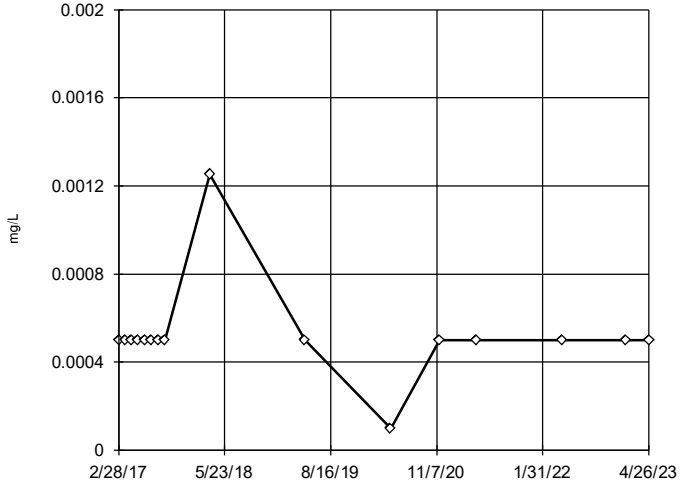
## Tukey's Outlier Screening

MW-U1 (bg)




n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

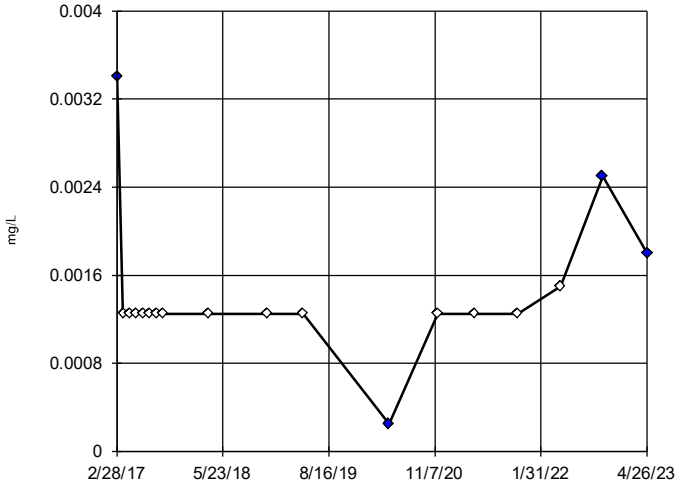
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

## Tukey's Outlier Screening

MW-D1




n = 18

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 = 0.001773, low cutoff = 0.0009177, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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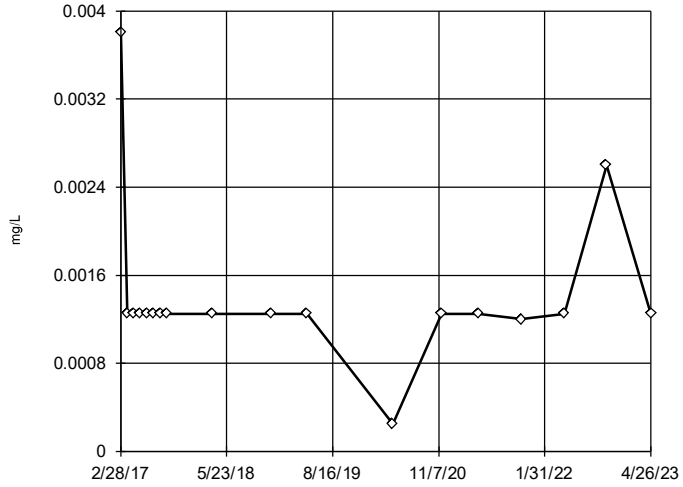
## Tukey's Outlier Screening

MW-D2




n = 18

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: Chromium Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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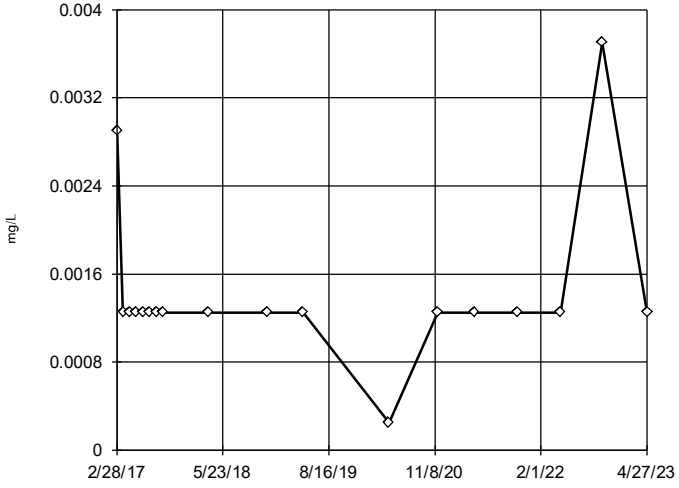
## Tukey's Outlier Screening

MW-D3




n = 18

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: Chromium Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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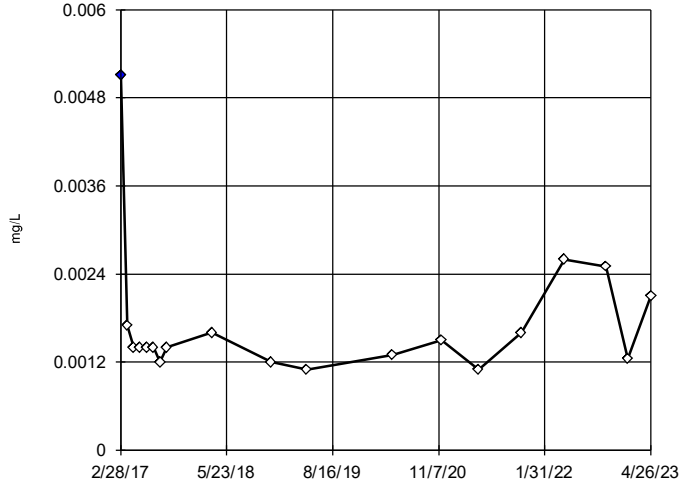
## Tukey's Outlier Screening

MW-U1 (bg)




n = 19

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 = 0.004276, low cutoff = 0.0004969, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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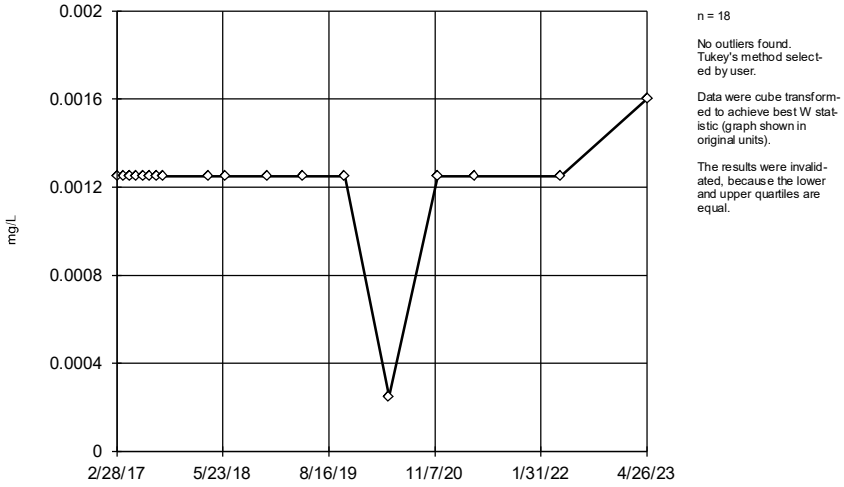
## Tukey's Outlier Screening

MW-D1




n = 18

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: Cobalt Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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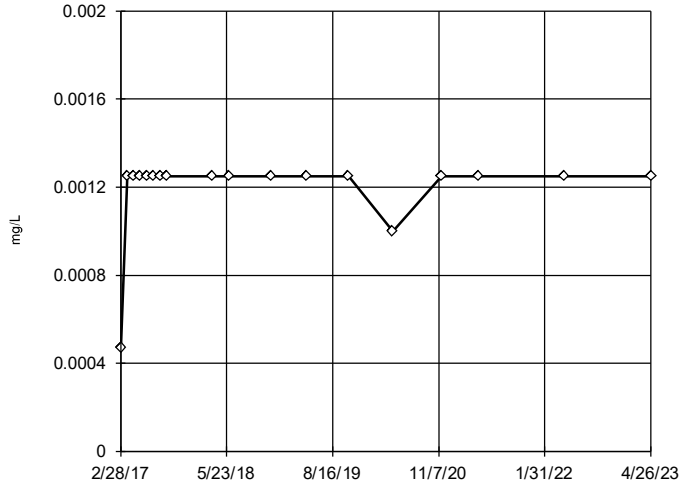
## Tukey's Outlier Screening

MW-D2




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: Cobalt Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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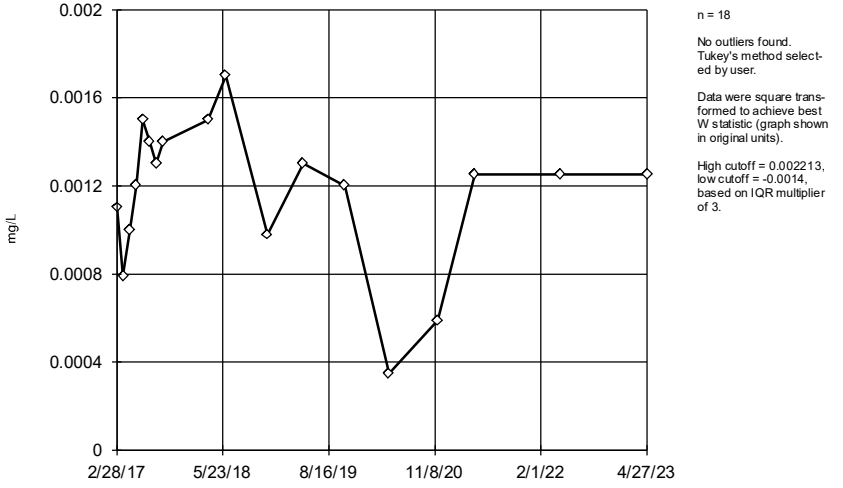
## Tukey's Outlier Screening

MW-D3




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).

High cutoff = 0.002213, low cutoff = -0.0014, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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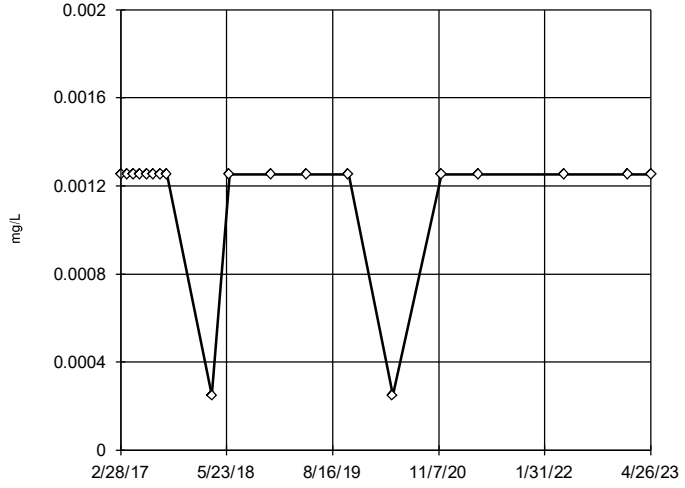
## Tukey's Outlier Screening

MW-U1 (bg)




n = 19

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 7/8/2023 11:58 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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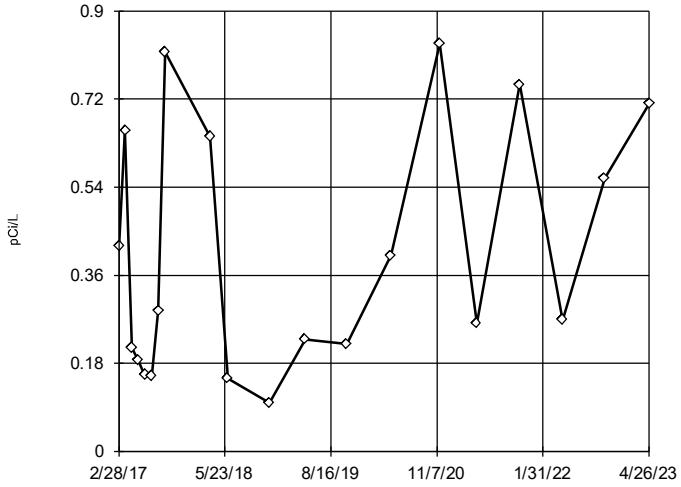
## Tukey's Outlier Screening

MW-D1




n = 20

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 = 22.65, low cutoff = 0.005689, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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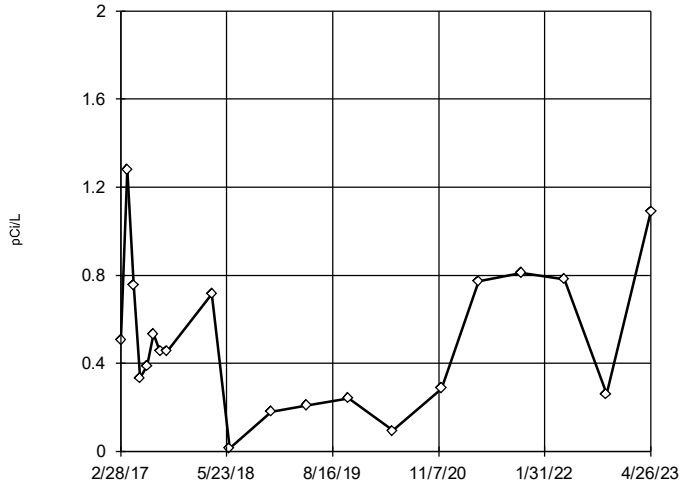
## Tukey's Outlier Screening

MW-D2




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).

High cutoff = 3.979, low cutoff = -0.3836, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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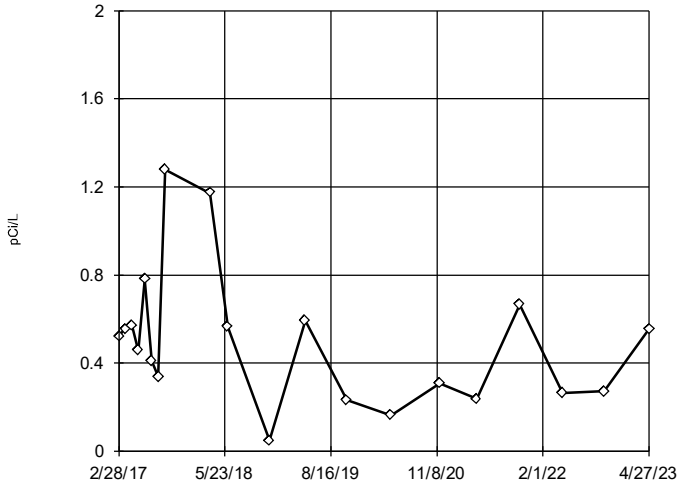
## Tukey's Outlier Screening

MW-D3




n = 20

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 = 2.784, low cutoff = 0.0003984, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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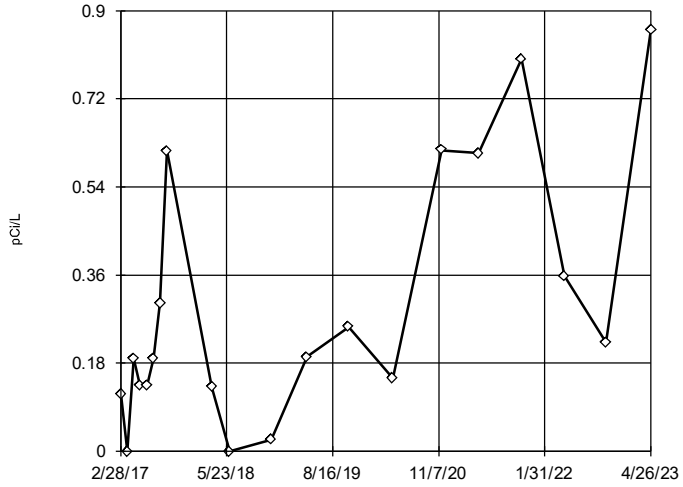
## Tukey's Outlier Screening

MW-U1 (bg)




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).

High cutoff = 2.781, low cutoff = -0.378, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 11:58 AM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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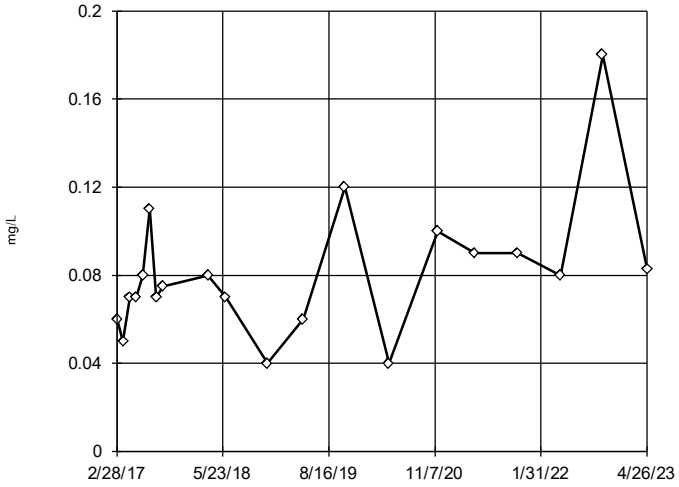
## Tukey's Outlier Screening

MW-D1




n = 20

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 = 0.241, low cutoff = 0.0242, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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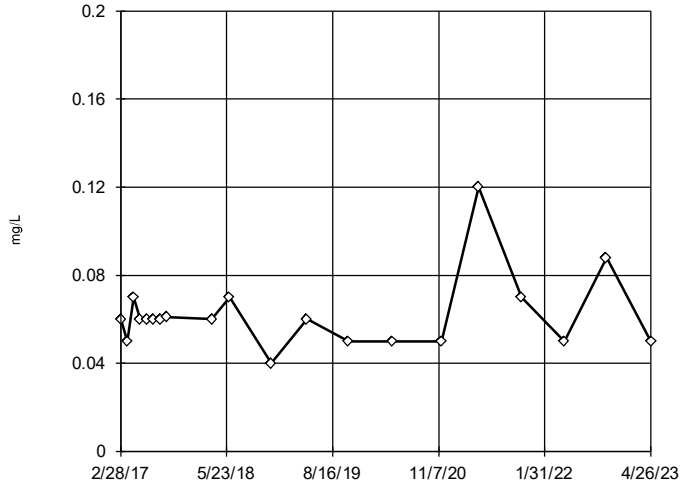
## Tukey's Outlier Screening

MW-D2




n = 20

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 = 0.1459, low cutoff = 0.0224, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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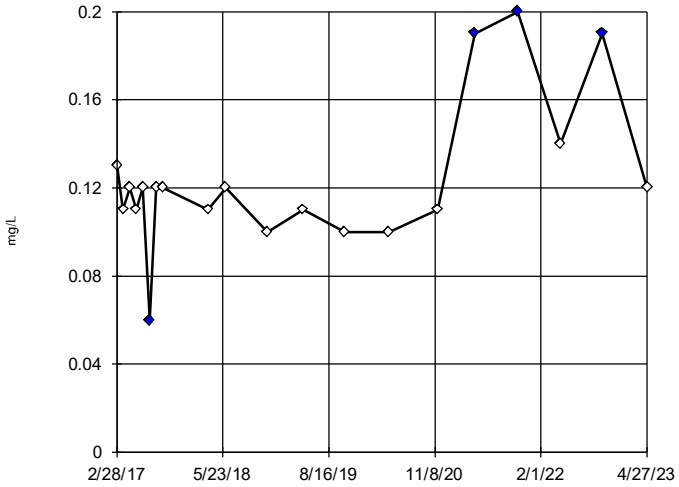
## Tukey's Outlier Screening

MW-D3




n = 20

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 = 0.1828, low cutoff = 0.07514, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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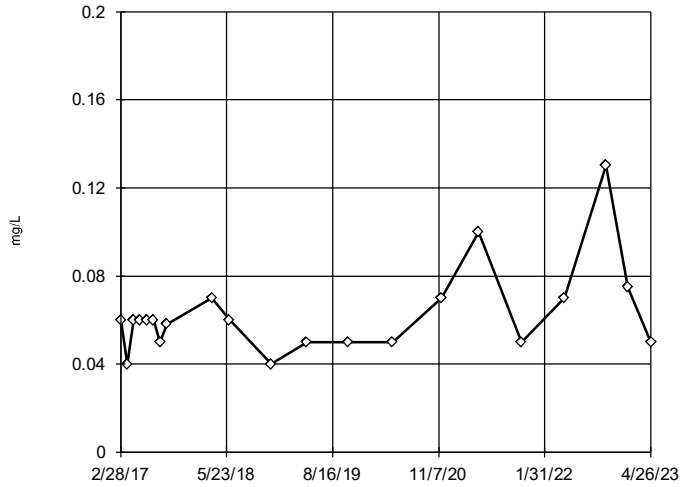
## Tukey's Outlier Screening

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 = 0.1921, low cutoff = 0.01822, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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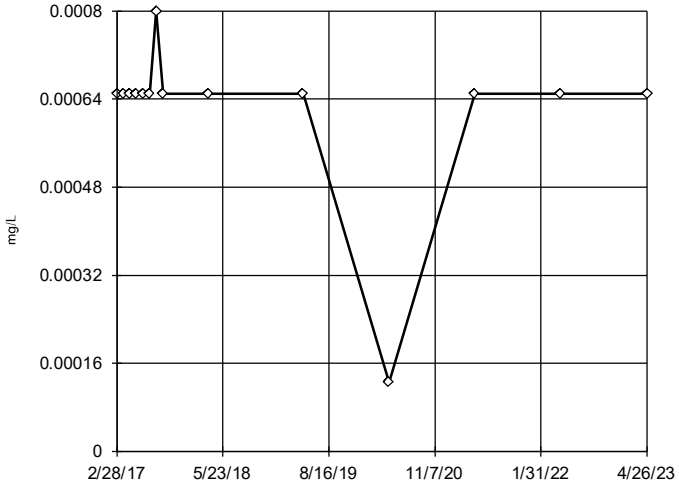
## Tukey's Outlier Screening

MW-D1




n = 14

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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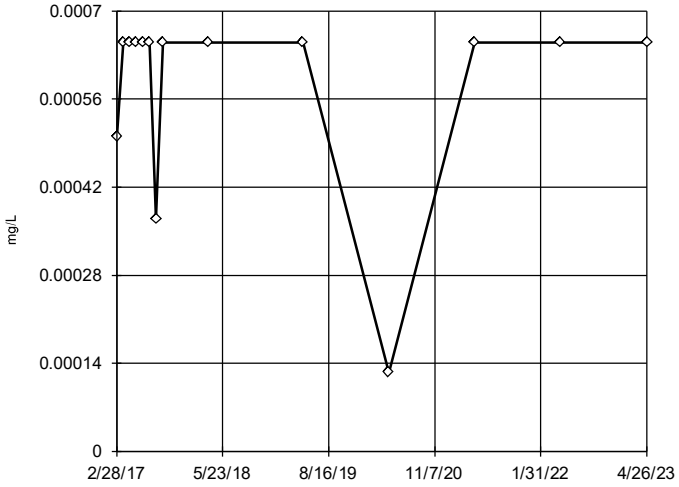
## Tukey's Outlier Screening

MW-D2




n = 14

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.0007932, low cutoff = -0.0002909, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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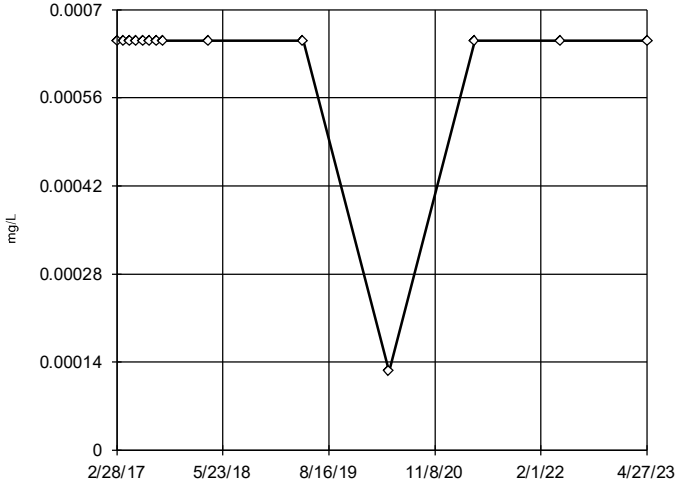
## Tukey's Outlier Screening

MW-D3




n = 14

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: Lead Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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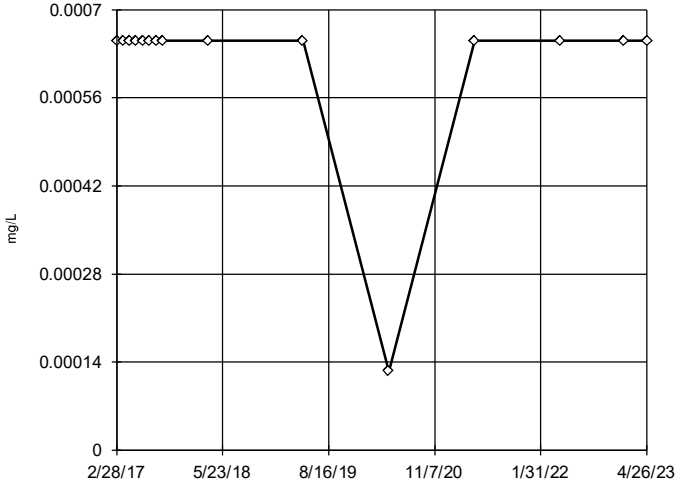
## Tukey's Outlier Screening

MW-U1 (bg)




n = 15

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

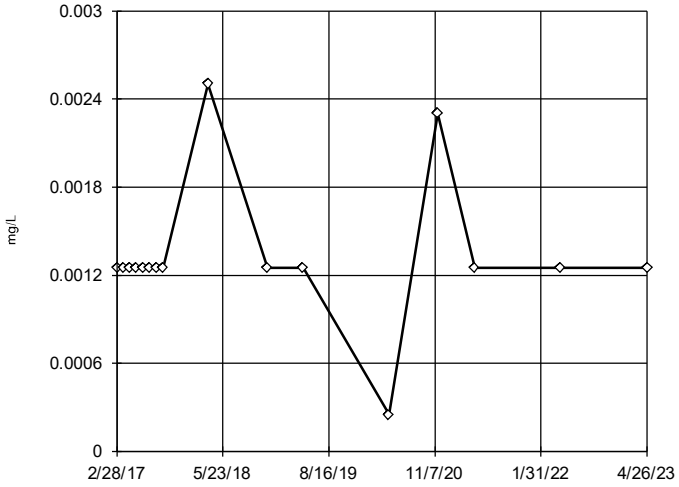
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

## Tukey's Outlier Screening

MW-D1




n = 16

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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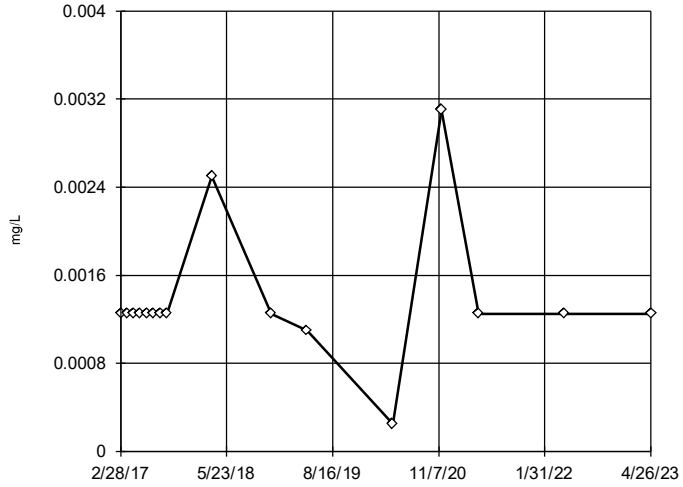
## Tukey's Outlier Screening

MW-D2




n = 16

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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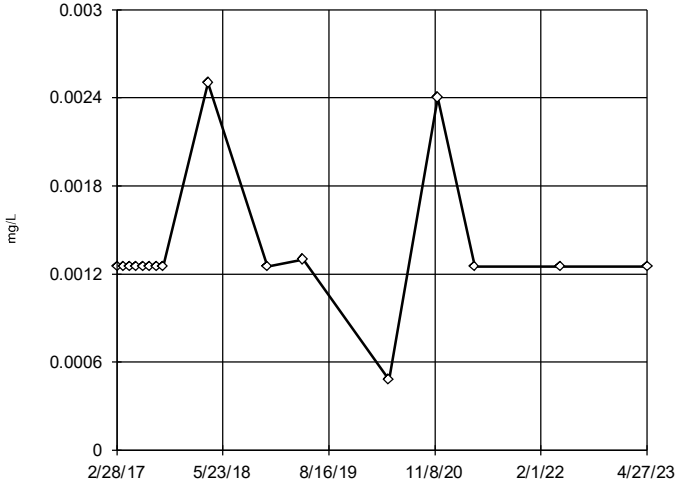
## Tukey's Outlier Screening

MW-D3




n = 16

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: Lithium Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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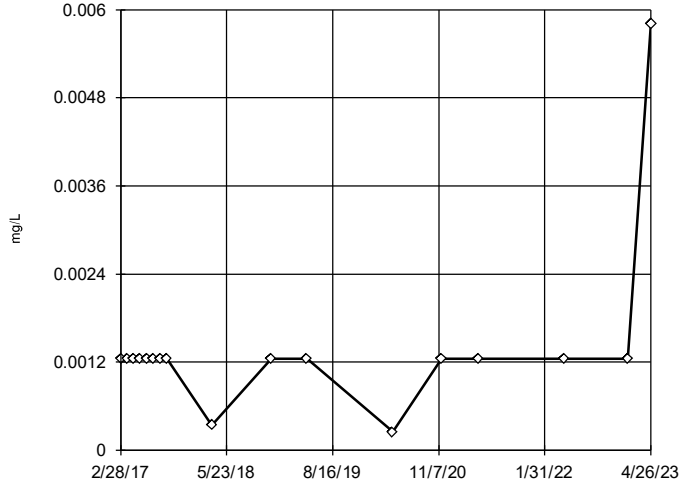
## Tukey's Outlier Screening

MW-U1 (bg)




n = 17

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: Lithium Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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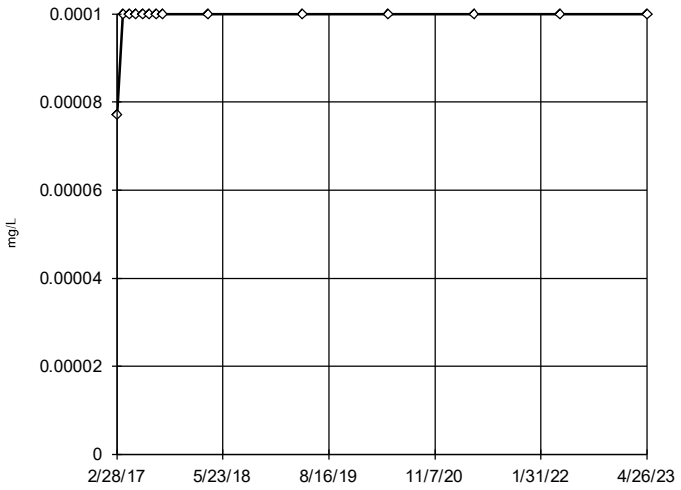
## Tukey's Outlier Screening

MW-D1




n = 14

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: Mercury Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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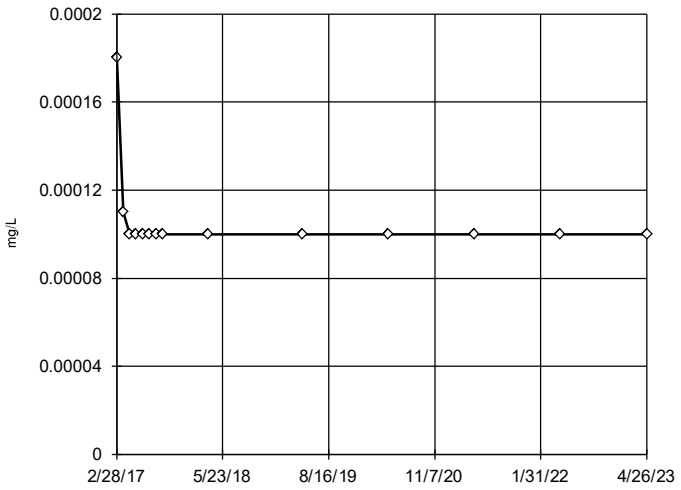
## Tukey's Outlier Screening

MW-D2




n = 14

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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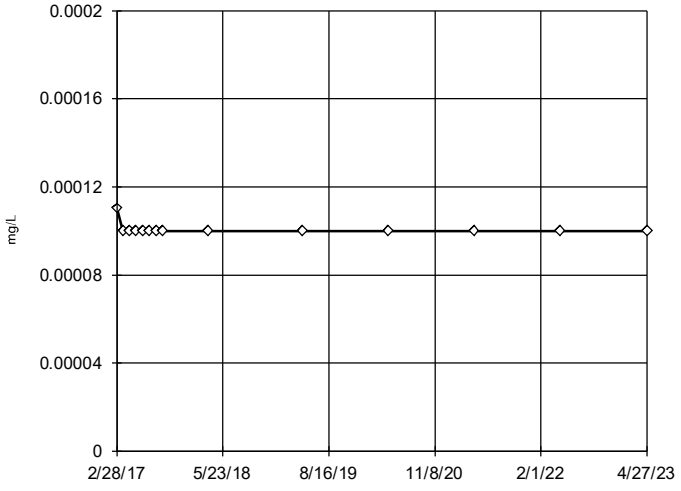
## Tukey's Outlier Screening

MW-D3




n = 14

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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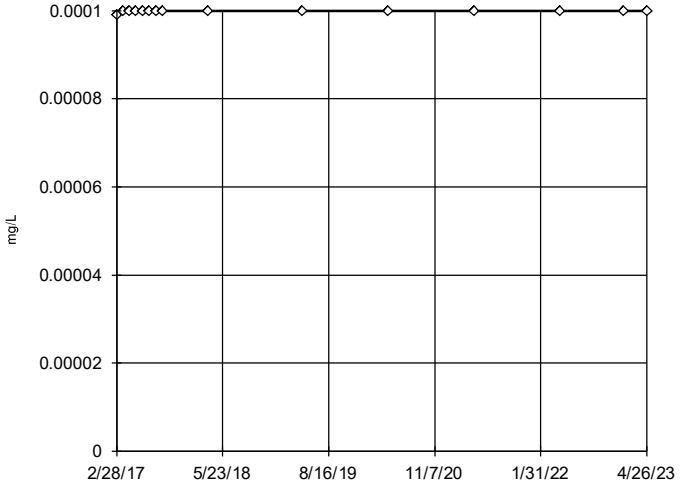
## Tukey's Outlier Screening

MW-U1 (bg)




n = 15

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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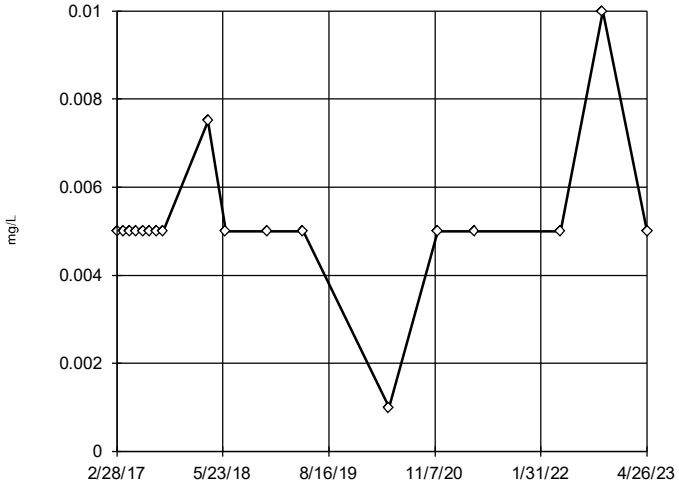
## Tukey's Outlier Screening

MW-D1




n = 18

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 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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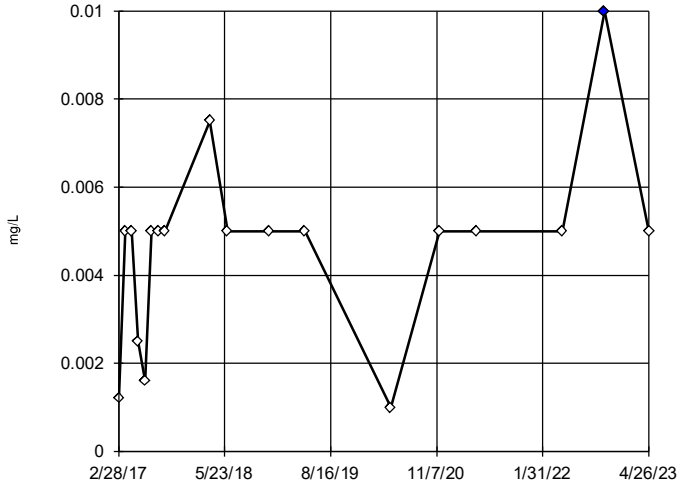
## Tukey's Outlier Screening

MW-D2




n = 18

Outlier is drawn as solid. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.00875, low cutoff = 1.1e-10, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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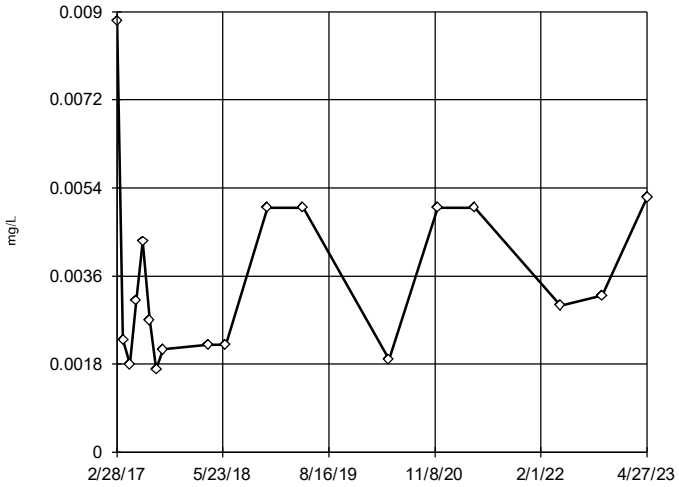
## Tukey's Outlier Screening

MW-D3




n = 18

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 = 0.06294, low cutoff = 0.0001708, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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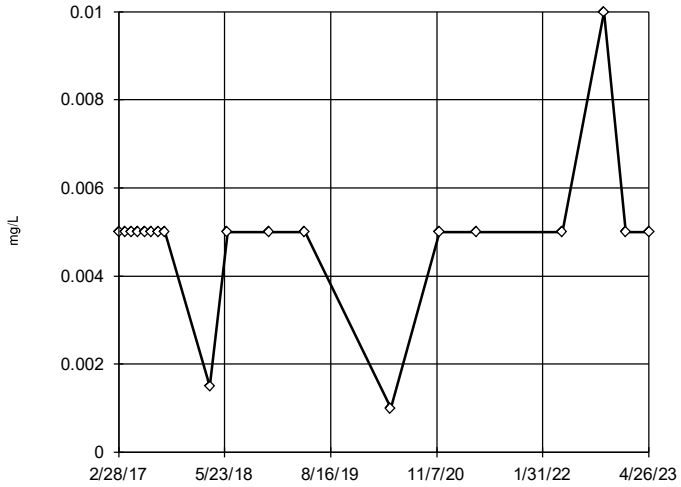
## Tukey's Outlier Screening

MW-U1 (bg)




n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

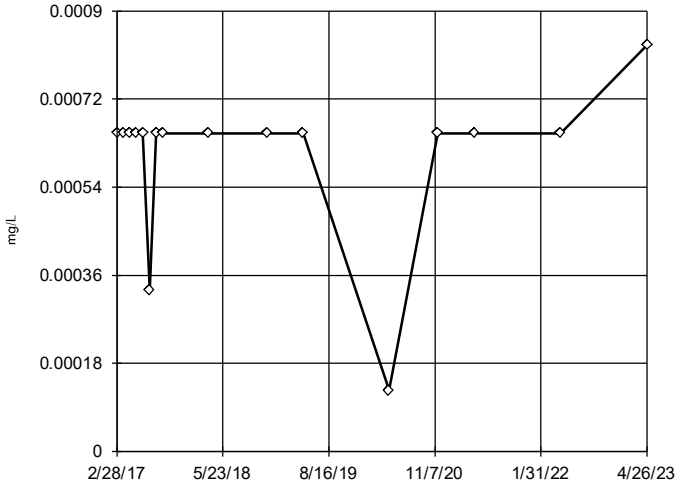
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 7/8/2023 11:59 AM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

## Tukey's Outlier Screening

MW-D1




n = 16

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: Selenium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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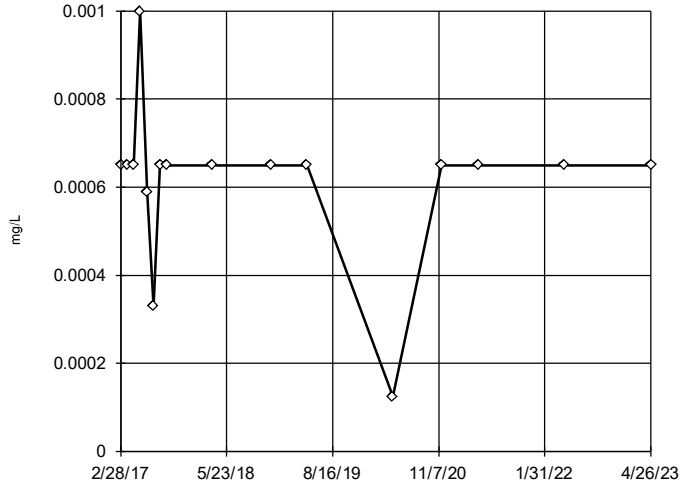
## Tukey's Outlier Screening

MW-D2




n = 16

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: Selenium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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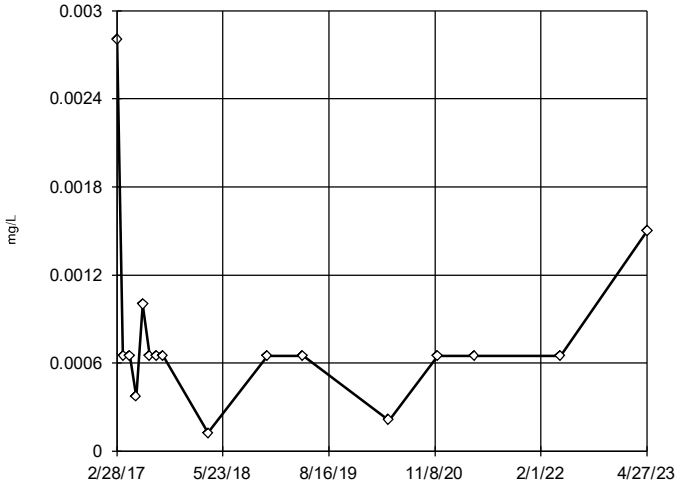
## Tukey's Outlier Screening

MW-D3




n = 16

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 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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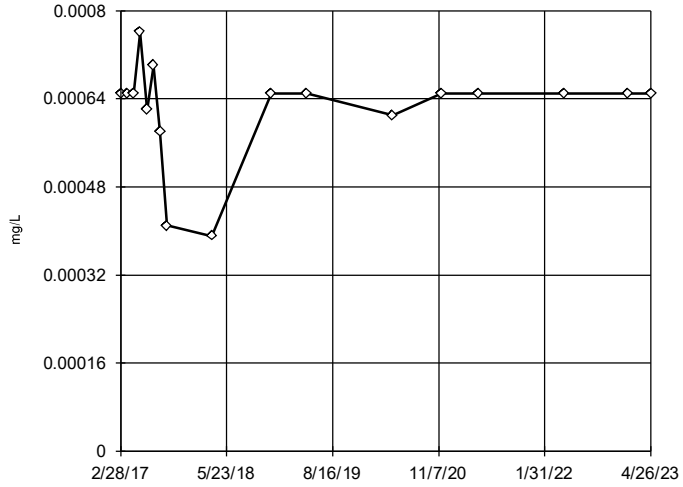
## Tukey's Outlier Screening

MW-U1 (bg)




n = 17

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 both the lower and upper quartiles represent reporting limits.

Constituent: Selenium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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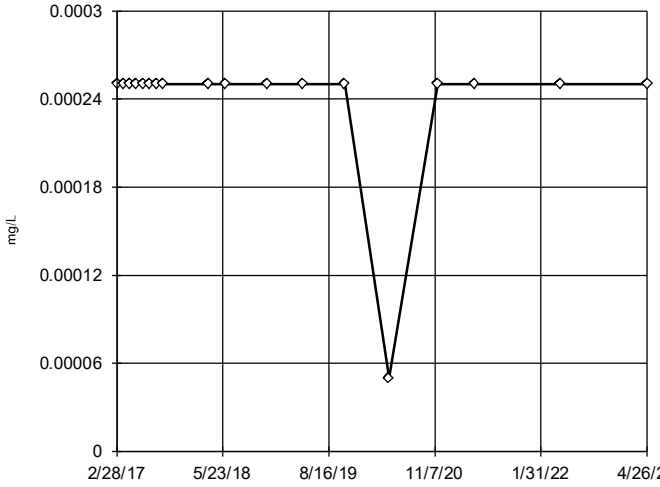
## Tukey's Outlier Screening

MW-D1




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: Thallium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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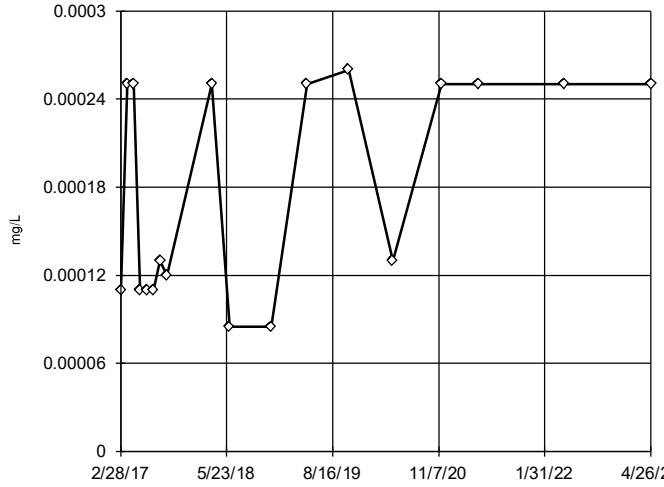
## Tukey's Outlier Screening

MW-D2




n = 18

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 = 0.002935, low cutoff = 0.00000937, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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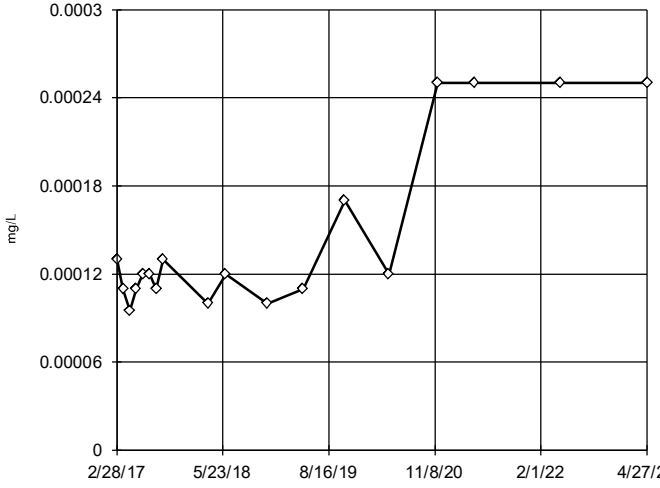
## Tukey's Outlier Screening

MW-D3




n = 18

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 = 0.001357, low cutoff = 0.00001671, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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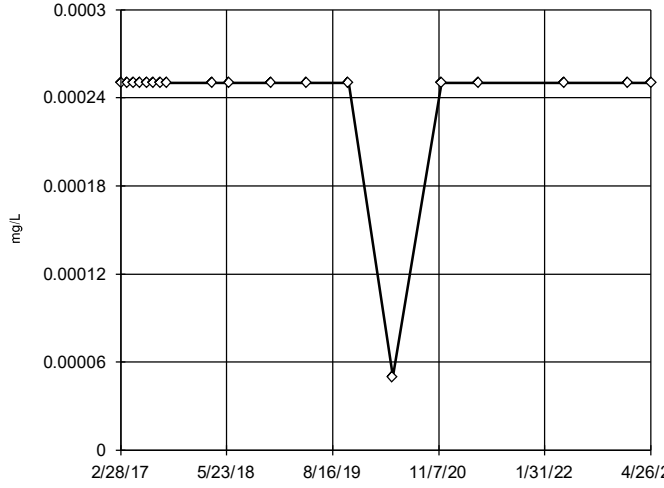
## Tukey's Outlier Screening

MW-U1 (bg)




n = 19

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: Thallium Analysis Run 7/8/2023 12:00 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

# Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 7/8/2023, 12:04 PM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 14 | 0.001179 | 0.0002673 | unknown | ShapiroWilk |
| Antimony (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 14 | 0.001179 | 0.0002673 | unknown | ShapiroWilk |
| Antimony (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 14 | 0.001179 | 0.0002673 | unknown | ShapiroWilk |
| Antimony (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 15 | 0.001183 | 0.0002582 | unknown | ShapiroWilk |
| Arsenic (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 20 | 0.000... | 0.0001829 | unknown | ShapiroWilk |
| Arsenic (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 20 | 0.000... | 0.0001838 | unknown | ShapiroWilk |
| Arsenic (mg/L) | MW-D3 | No | n/a | n/a | NP | NaN | 20 | 0.000... | 0.0003212 | ln(x) | ShapiroWilk |
| Arsenic (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 21 | 0.000... | 0.0003518 | unknown | ShapiroWilk |
| Barium (mg/L) | MW-D1 | No | n/a | n/a | NP | NaN | 20 | 0.01477 | 0.004868 | ln(x) | ShapiroWilk |
| Barium (mg/L) | MW-D2 | No | n/a | n/a | NP | NaN | 20 | 0.1439 | 0.02514 | normal | ShapiroWilk |
| Barium (mg/L) | MW-D3 | No | n/a | n/a | NP | NaN | 20 | 0.1411 | 0.0603 | normal | ShapiroWilk |
| **Barium (mg/L)** | **MW-U1 (bg)** | **Yes** | **0.0062** | **11/19/2020** | **NP** | **NaN** | **21** | **0.002529** | **0.0009398** | **ln(x)** | **ShapiroWilk** |
| Beryllium (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0002289 | unknown | ShapiroWilk |
| Beryllium (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0002289 | unknown | ShapiroWilk |
| Beryllium (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0002289 | unknown | ShapiroWilk |
| Beryllium (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 15 | 0.000... | 0.0002208 | unknown | ShapiroWilk |
| Cadmium (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 15 | 0.000... | 0.0002259 | unknown | ShapiroWilk |
| Cadmium (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 15 | 0.000... | 0.0002293 | unknown | ShapiroWilk |
| Cadmium (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 15 | 0.000... | 0.0002299 | unknown | ShapiroWilk |
| Cadmium (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 16 | 0.000... | 0.0002183 | unknown | ShapiroWilk |
| **Chromium (mg/L)** | **MW-D1** | **Yes** | **0.0034,0....** | **2/28/2017...** | **NP** | **NaN** | **18** | **0.001428** | **0.0006408** | **sqrt(x)** | **ShapiroWilk** |
| Chromium (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 18 | 0.001408 | 0.0007226 | unknown | ShapiroWilk |
| Chromium (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 18 | 0.001422 | 0.0007353 | unknown | ShapiroWilk |
| **Chromium (mg/L)** | **MW-U1 (bg)** | **Yes** | **0.0051** | **2/28/2017** | **NP** | **NaN** | **19** | **0.001729** | **0.0009203** | **ln(x)** | **ShapiroWilk** |
| Cobalt (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 18 | 0.001214 | 0.0002543 | unknown | ShapiroWilk |
| Cobalt (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 18 | 0.001193 | 0.0001897 | unknown | ShapiroWilk |
| Cobalt (mg/L) | MW-D3 | No | n/a | n/a | NP | NaN | 18 | 0.00117 | 0.0003328 | x^2 | ShapiroWilk |
| Cobalt (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 19 | 0.001145 | 0.0003153 | unknown | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-D1 | No | n/a | n/a | NP | NaN | 20 | 0.4004 | 0.2507 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-D2 | No | n/a | n/a | NP | NaN | 20 | 0.5079 | 0.3344 | sqrt(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-D3 | No | n/a | n/a | NP | NaN | 20 | 0.4997 | 0.3099 | x^(1/3) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-U1 (bg) | No | n/a | n/a | NP | NaN | 20 | 0.2948 | 0.2617 | sqrt(x) | ShapiroWilk |
| Fluoride (mg/L) | MW-D1 | No | n/a | n/a | NP | NaN | 20 | 0.0809 | 0.03113 | ln(x) | ShapiroWilk |
| Fluoride (mg/L) | MW-D2 | No | n/a | n/a | NP | NaN | 20 | 0.06195 | 0.01718 | ln(x) | ShapiroWilk |
| **Fluoride (mg/L)** | **MW-D3** | **Yes** | **0.06,0.19...** | **7/17/2017...** | **NP** | **NaN** | **20** | **0.124** | **0.03378** | **ln(x)** | **ShapiroWilk** |
| Fluoride (mg/L) | MW-U1 (bg) | No | n/a | n/a | NP | NaN | 21 | 0.06252 | 0.02037 | ln(x) | ShapiroWilk |
| Lead (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0001489 | unknown | ShapiroWilk |
| Lead (mg/L) | MW-D2 | No | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0001548 | x^3 | ShapiroWilk |
| Lead (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0001403 | unknown | ShapiroWilk |
| Lead (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 15 | 0.000615 | 0.0001356 | unknown | ShapiroWilk |
| Lithium (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 16 | 0.001331 | 0.0004871 | unknown | ShapiroWilk |
| Lithium (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 16 | 0.001372 | 0.0006202 | unknown | ShapiroWilk |
| Lithium (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 16 | 0.001355 | 0.0004693 | unknown | ShapiroWilk |
| Lithium (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 17 | 0.001405 | 0.001176 | unknown | ShapiroWilk |
| Mercury (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0000... | unknown | ShapiroWilk |
| Mercury (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0000... | unknown | ShapiroWilk |
| Mercury (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 14 | 0.000... | 0.0000... | unknown | ShapiroWilk |
| Mercury (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 15 | 0.000... | 2.6e-7 | unknown | ShapiroWilk |
| Molybdenum (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 18 | 0.005194 | 0.001655 | unknown | ShapiroWilk |
| **Molybdenum (mg/L)** | **MW-D2** | **Yes** | **0.01** | **10/20/2022** | **NP** | **NaN** | **18** | **0.004656** | **0.002133** | **normal** | **ShapiroWilk** |

# Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 7/8/2023, 12:04 PM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum (mg/L) | MW-D3 | No | n/a | n/a | NP | NaN | 18 | 0.003583 | 0.001833 | ln(x) | ShapiroWilk |
| Molybdenum (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 19 | 0.004868 | 0.001715 | unknown | ShapiroWilk |
| Selenium (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 16 | 0.000... | 0.0001597 | unknown | ShapiroWilk |
| Selenium (mg/L) | MW-D2 | n/a | n/a | n/a | NP | NaN | 16 | 0.000... | 0.0001798 | unknown | ShapiroWilk |
| Selenium (mg/L) | MW-D3 | n/a | n/a | n/a | NP | NaN | 16 | 0.000... | 0.0006185 | unknown | ShapiroWilk |
| Selenium (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 17 | 0.000... | 0.0000... | unknown | ShapiroWilk |
| Thallium (mg/L) | MW-D1 | n/a | n/a | n/a | NP | NaN | 18 | 0.000... | 0.0000... | unknown | ShapiroWilk |
| Thallium (mg/L) | MW-D2 | No | n/a | n/a | NP | NaN | 18 | 0.000... | 0.0000735 | ln(x) | ShapiroWilk |
| Thallium (mg/L) | MW-D3 | No | n/a | n/a | NP | NaN | 18 | 0.000... | 0.0000... | ln(x) | ShapiroWilk |
| Thallium (mg/L) | MW-U1 (bg) | n/a | n/a | n/a | NP | NaN | 19 | 0.000... | 0.0000... | unknown | ShapiroWilk |

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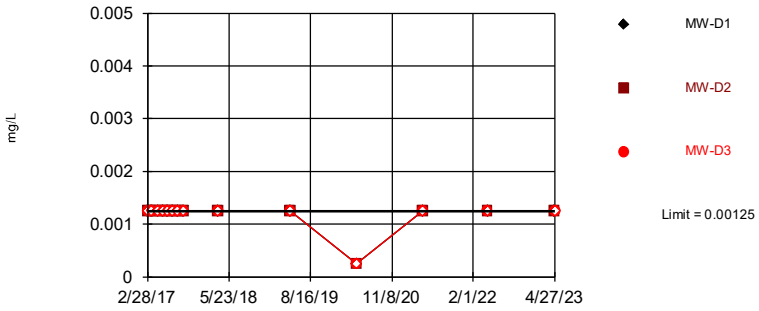
Hollow symbols indicate censored values.
Within Limit

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. 73.63% coverage at alpha=0.01; 81.84% coverage at alpha=0.05; 95.51% coverage at alpha=0.5. Report alpha = 0.4633.

Constituent: Antimony Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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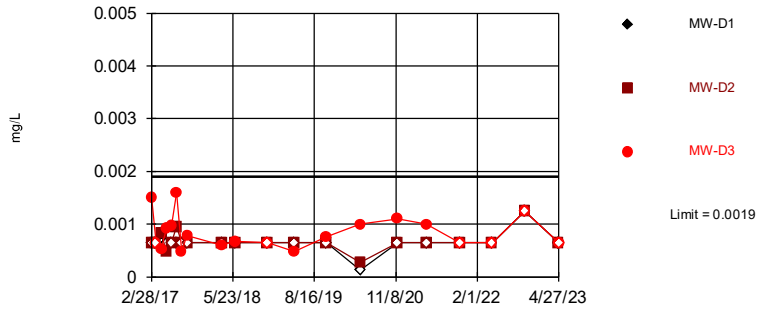
Hollow symbols indicate censored values.
Within Limit

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 21 background values. 80.95% NDs. 80.27% coverage at alpha=0.01; 86.52% coverage at alpha=0.05; 96.68% coverage at alpha=0.5. Report alpha = 0.3406.

Constituent: Arsenic Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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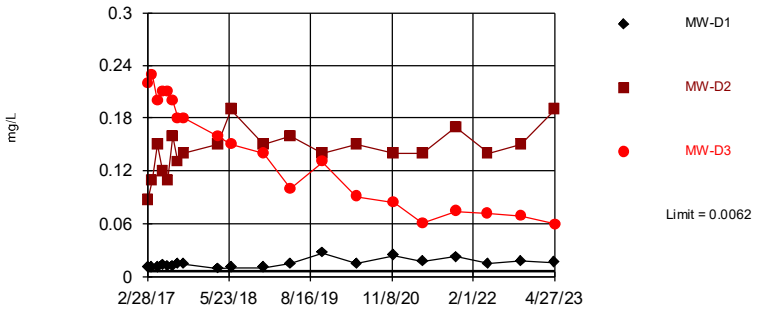
Exceeds Limit: MW-D1, MW-D2, MW-D3

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 21 background values. 80.27% coverage at alpha=0.01; 86.52% coverage at alpha=0.05; 96.68% coverage at alpha=0.5. Report alpha = 0.3406.

Constituent: Barium Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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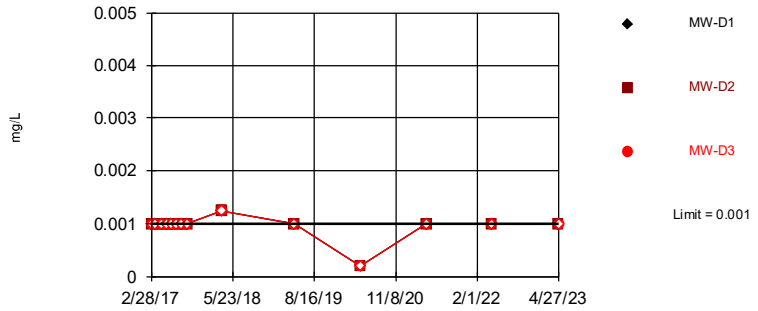
Hollow symbols indicate censored values.
Within Limit

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. 73.63% coverage at alpha=0.01; 81.84% coverage at alpha=0.05; 95.51% coverage at alpha=0.5. Report alpha = 0.4633.

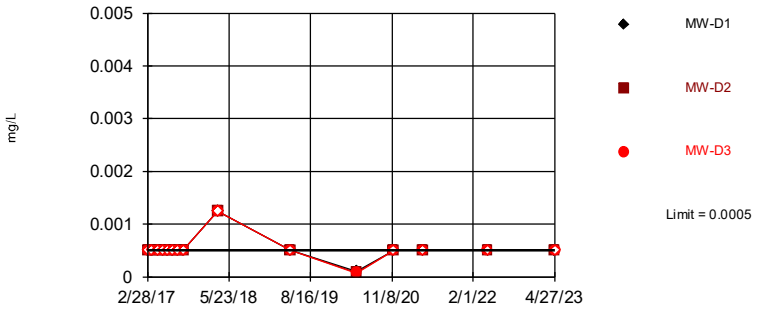
Constituent: Beryllium Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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. 74.8% coverage at alpha=0.01; 83.01% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4401.

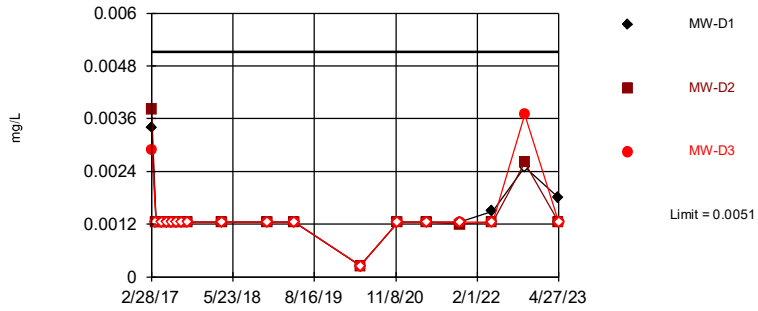
Constituent: Cadmium Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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 19 background values. 10.53% NDs. 78.32% coverage at alpha=0.01; 85.35% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3774.

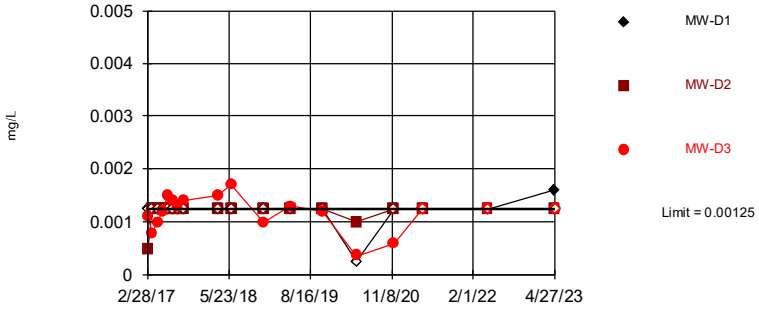
Constituent: Chromium Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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. 78.32% coverage at alpha=0.01; 85.35% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3774.

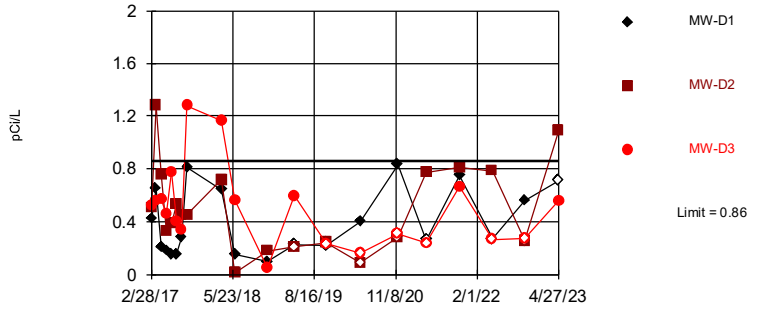
Constituent: Cobalt Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
Exceeds Limit: MW-D2

Tolerance Limit

Interwell Non-parametric




Non-parametric test used in lieu of parametric tolerance limit because the data required both a power transformation and Cohen's adjustment. Most recent observation is compared with limit. Limit is highest of 20 background values. 30% NDs. 79.49% coverage at alpha=0.01; 86.13% coverage at alpha=0.05; 96.68% coverage at alpha=0.5. Report alpha = 0.3585.

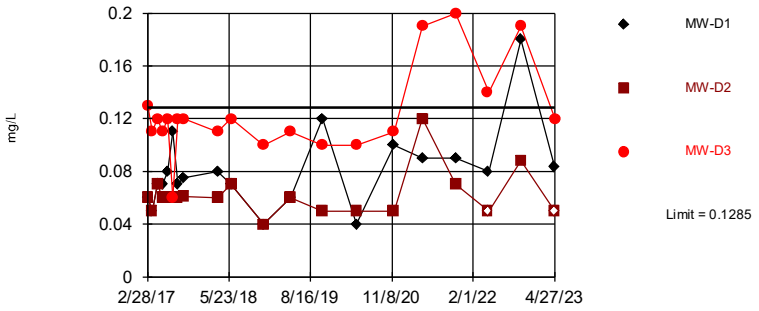
Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
Within Limit

Tolerance Limit

Interwell Parametric




95% coverage. Most recent observation is compared with limit. Background Data Summary (based on natural log transformation): Mean=-2.812, Std. Dev.=0.2747, n=21, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8866, critical = 0.873. Report alpha = 0.01.

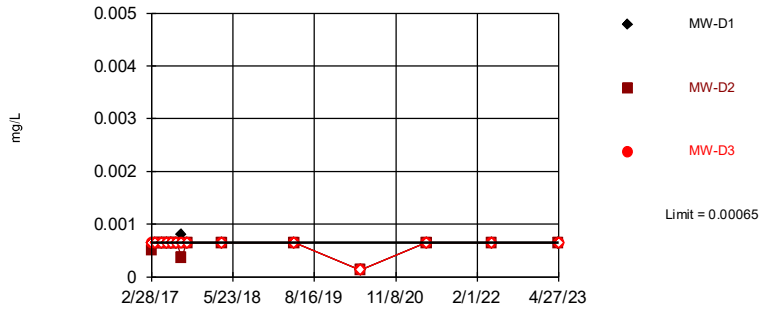
Constituent: Fluoride Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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 15 background values. 93.33% NDs. 73.63% coverage at alpha=0.01; 81.84% coverage at alpha=0.05; 95.51% coverage at alpha=0.5. Report alpha = 0.4633.

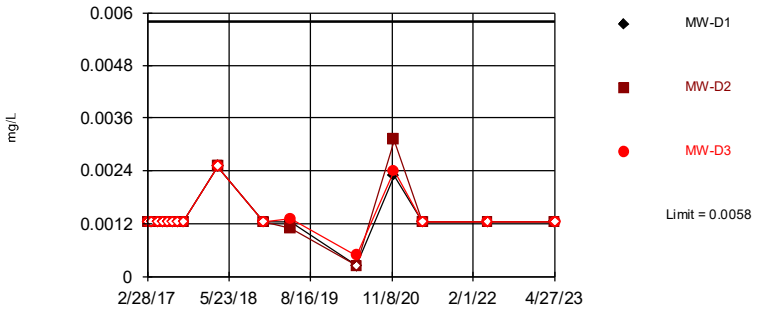
Constituent: Lead Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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 17 background values. 88.24% NDs. 76.37% coverage at alpha=0.01; 83.79% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4181.

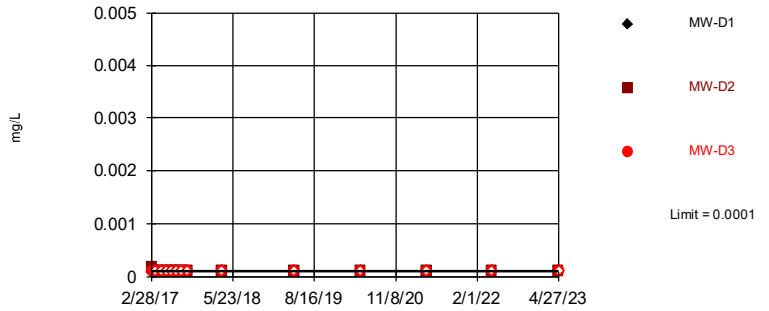
Constituent: Lithium Analysis Run 7/8/2023 12:08 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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 15 background values. 93.33% NDs. 73.63% coverage at alpha=0.01; 81.84% coverage at alpha=0.05; 95.51% coverage at alpha=0.5. Report alpha = 0.4633.

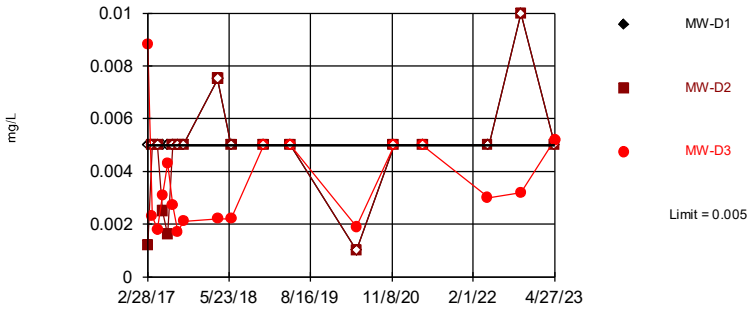
Constituent: Mercury Analysis Run 7/8/2023 12:09 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
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. 78.32% coverage at alpha=0.01; 85.35% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3774.

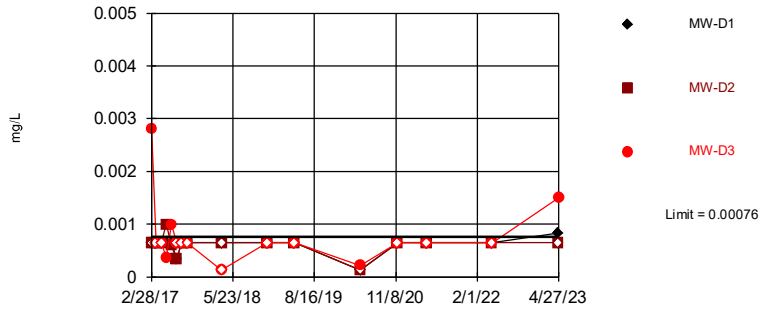
Constituent: Molybdenum Analysis Run 7/8/2023 12:09 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.
Exceeds Limit: MW-D3

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 17 background values. 58.82% NDs. 76.37% coverage at alpha=0.01; 83.79% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4181.

Constituent: Selenium Analysis Run 7/8/2023 12:09 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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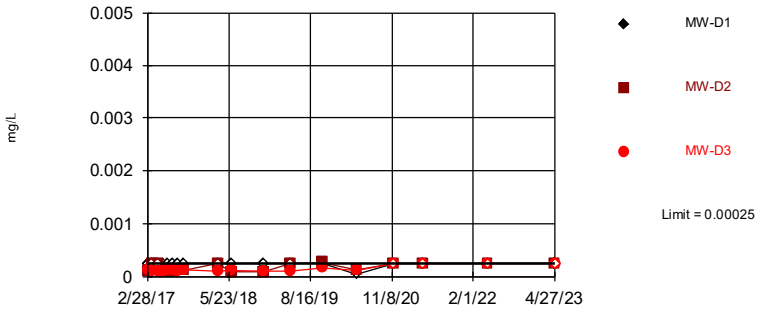
Hollow symbols indicate censored values.
Within Limit

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. 78.32% coverage at alpha=0.01; 85.35% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3774.

Constituent: Thallium Analysis Run 7/8/2023 12:09 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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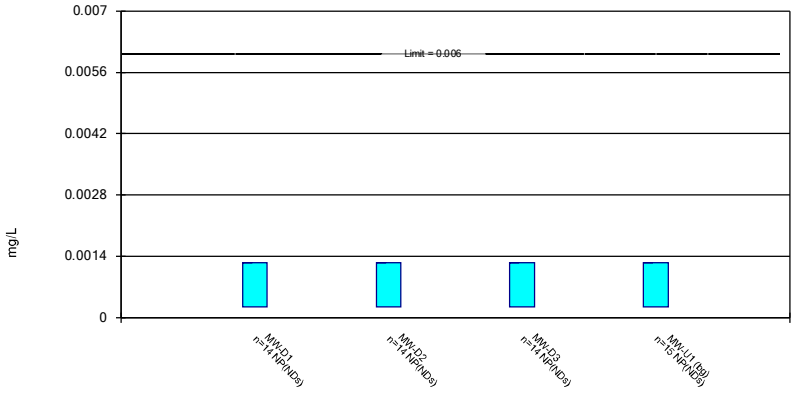
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Antimony Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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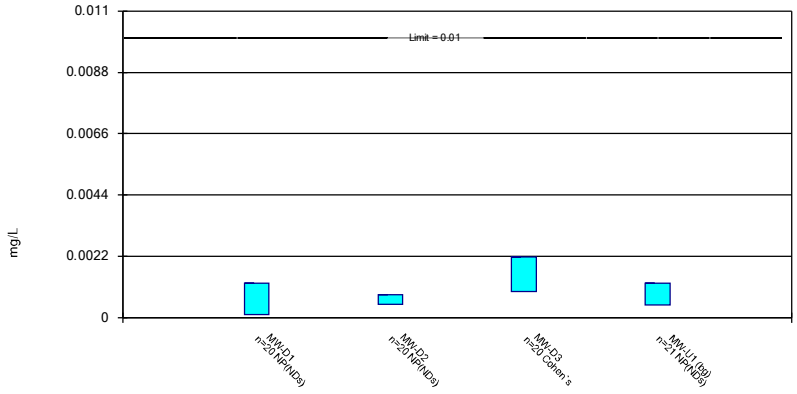
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Arsenic Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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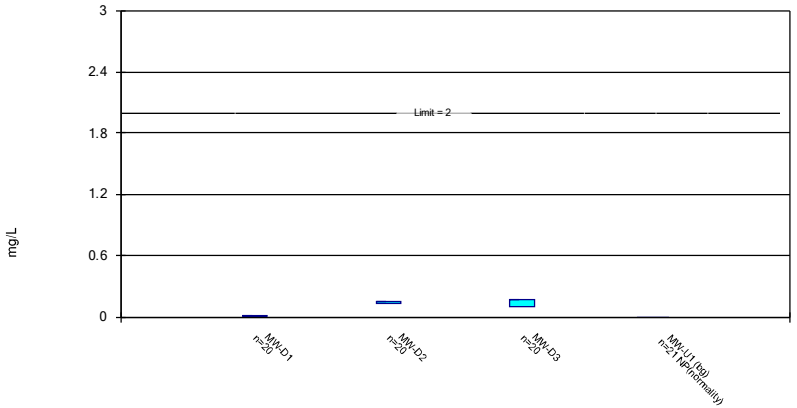
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Barium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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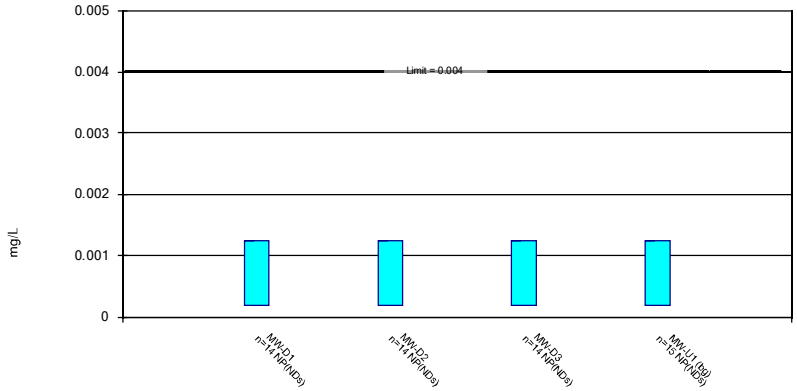
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Beryllium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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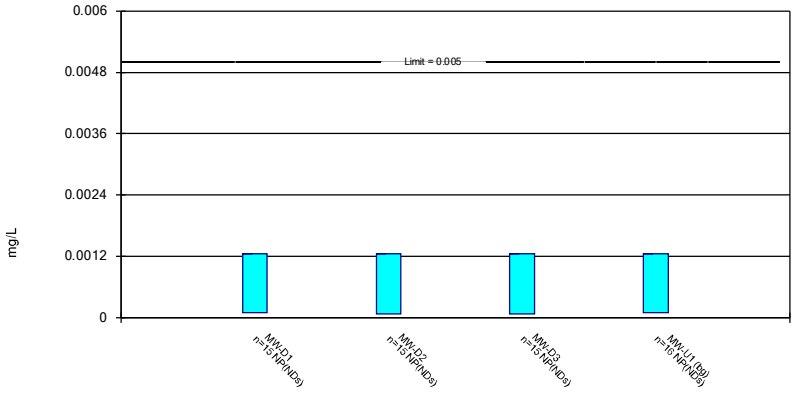
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Cadmium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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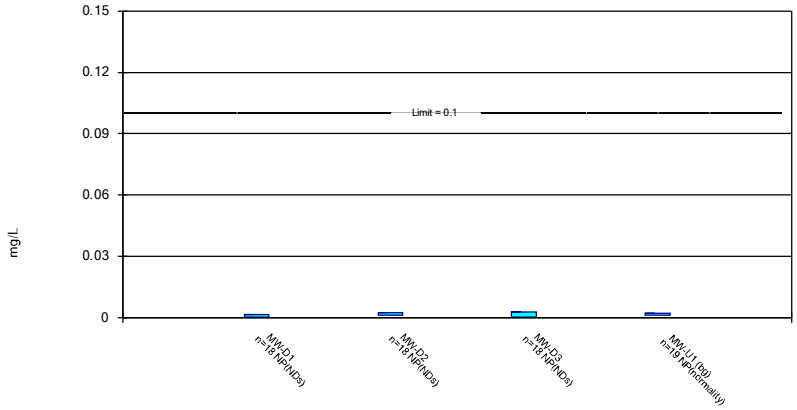
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Chromium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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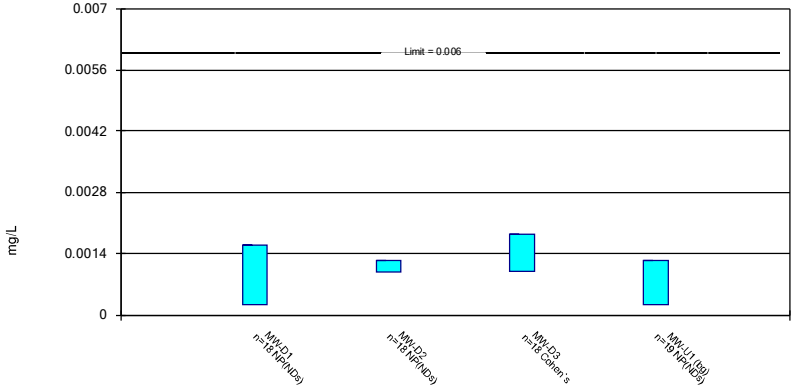
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Cobalt Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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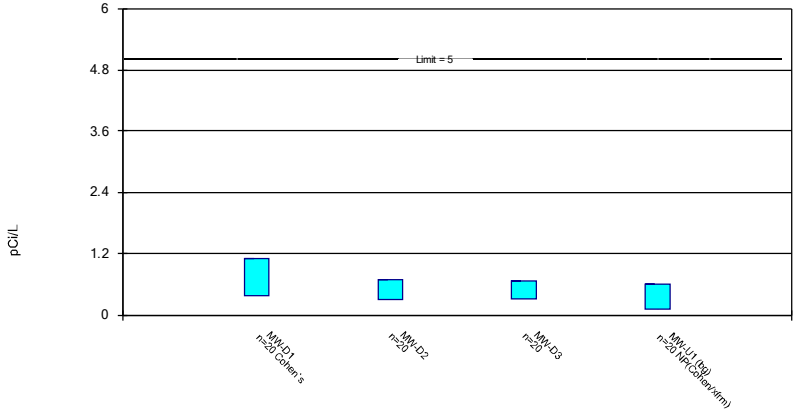
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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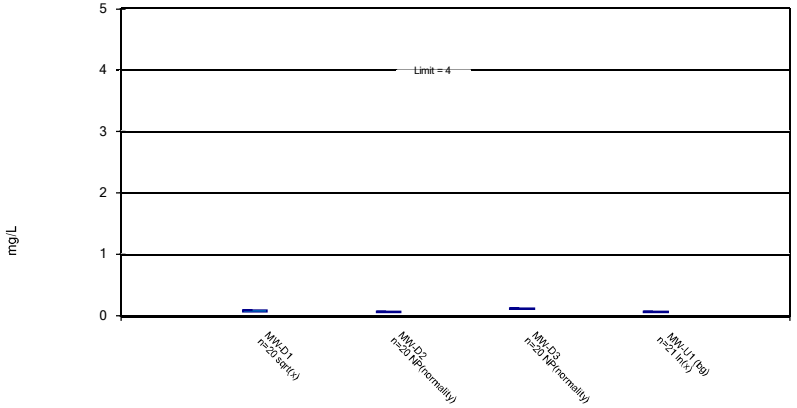
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.




Constituent: Fluoride Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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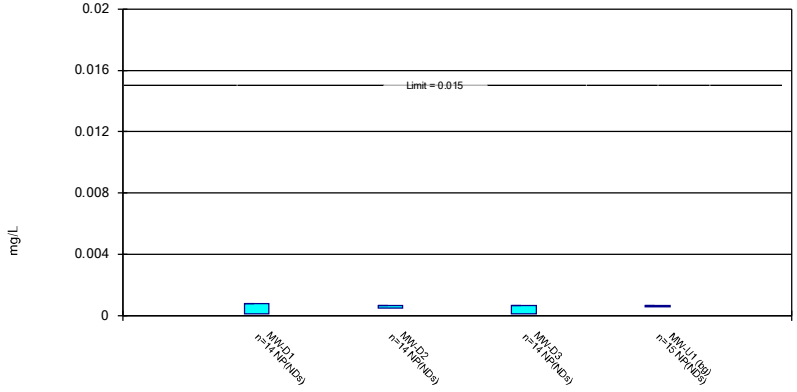
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Lead Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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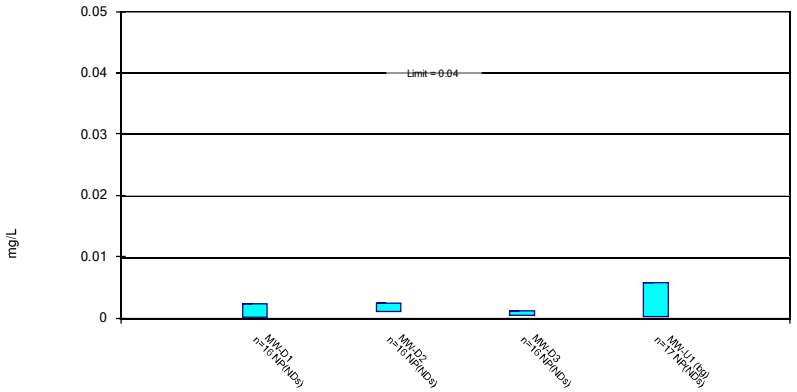
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



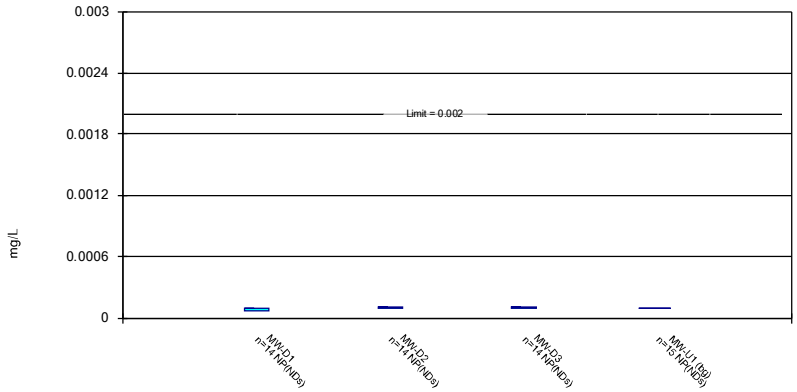

Constituent: Lithium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG

## Non-Parametric Confidence Interval

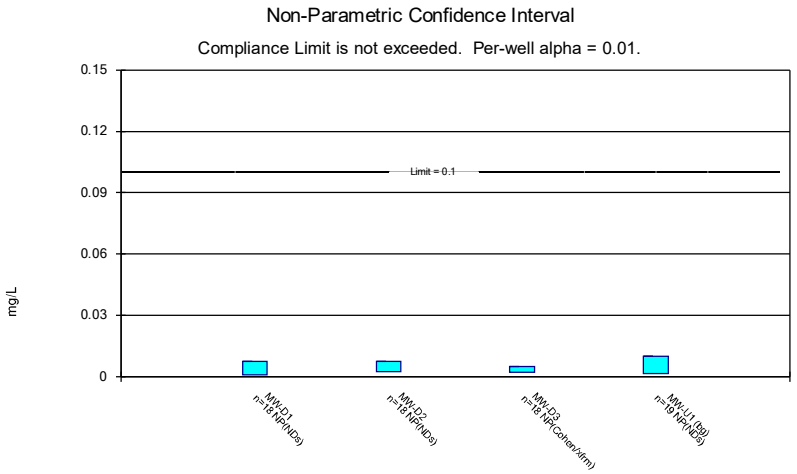
Compliance Limit is not exceeded. Per-well alpha = 0.01.




Constituent: Mercury Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

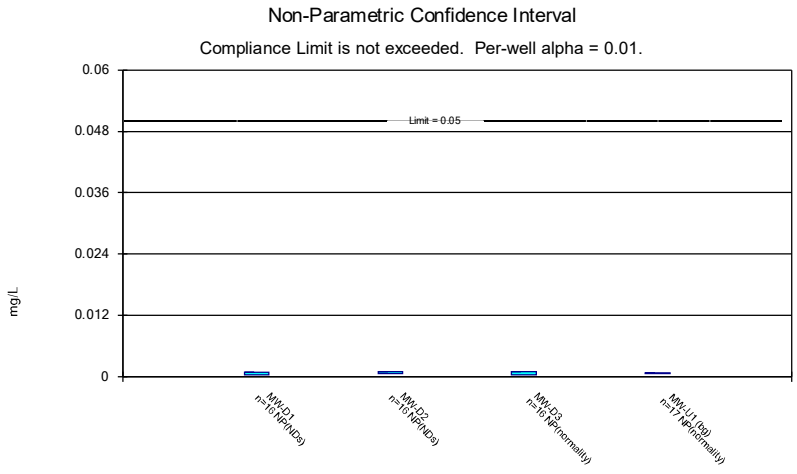
Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG




Constituent: Molybdenum Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

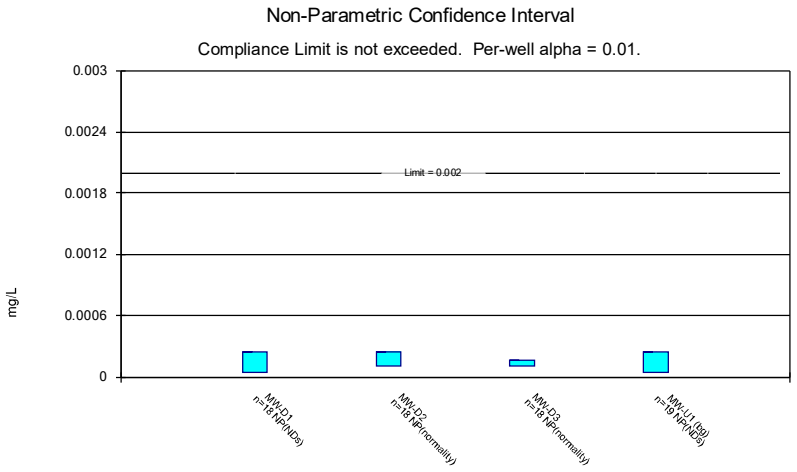
Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG




Constituent: Selenium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG

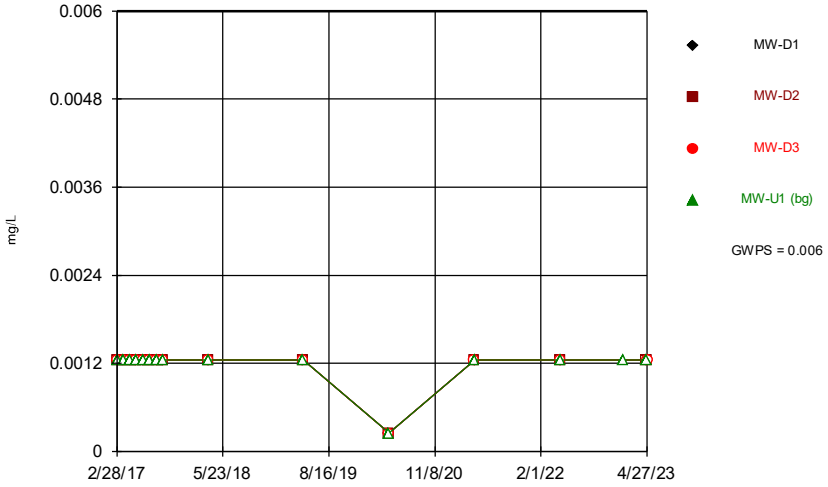



Constituent: Thallium Analysis Run 7/8/2023 12:12 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.

Time Series

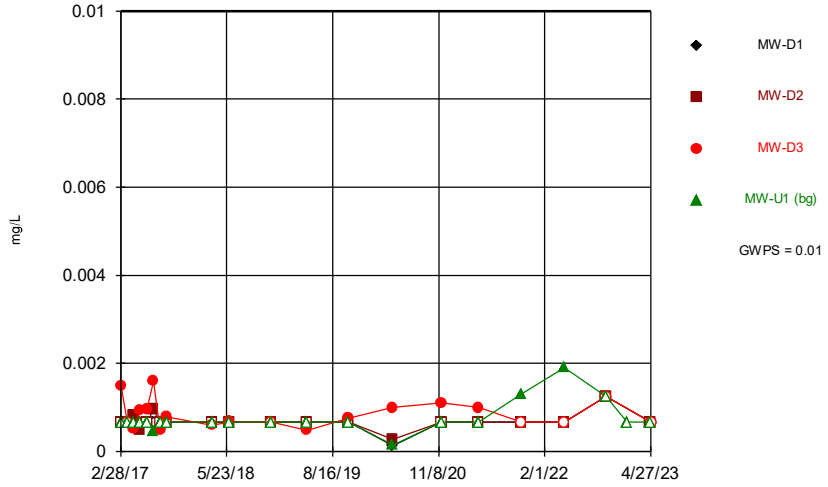



Constituent: Antimony Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.

Time Series

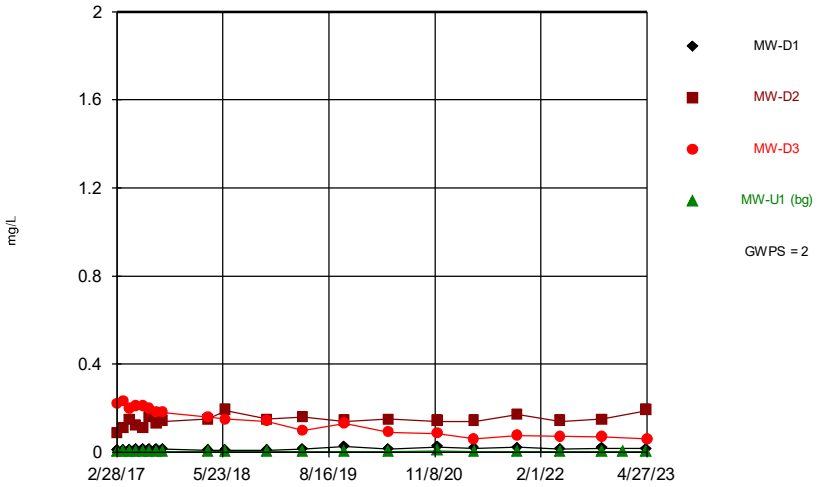



Constituent: Arsenic Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG

Time Series




Constituent: Barium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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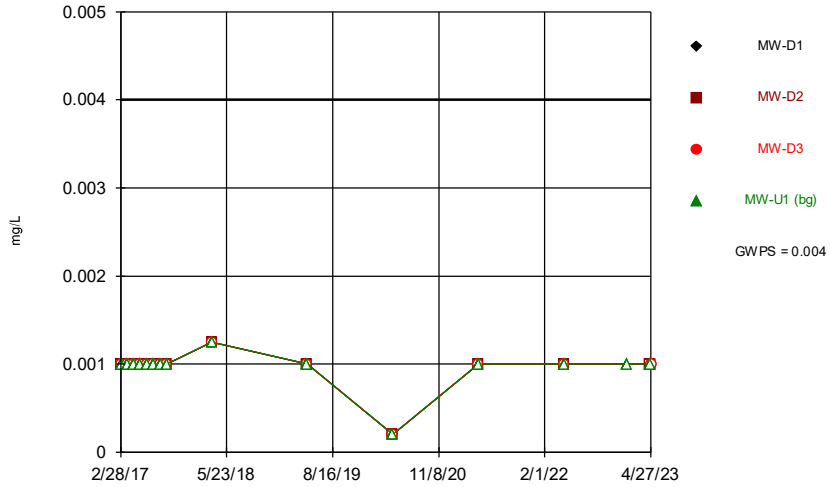
Hollow symbols indicate censored values.

Time Series




Constituent: Beryllium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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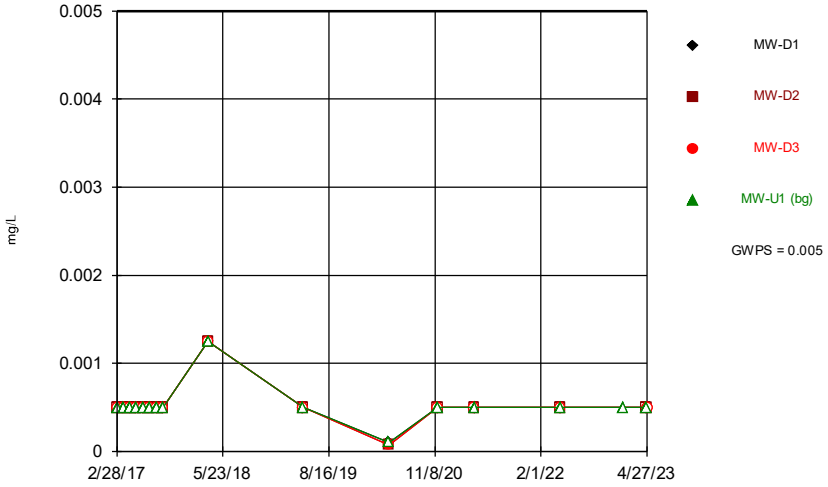
Hollow symbols indicate censored values.

Time Series




Constituent: Cadmium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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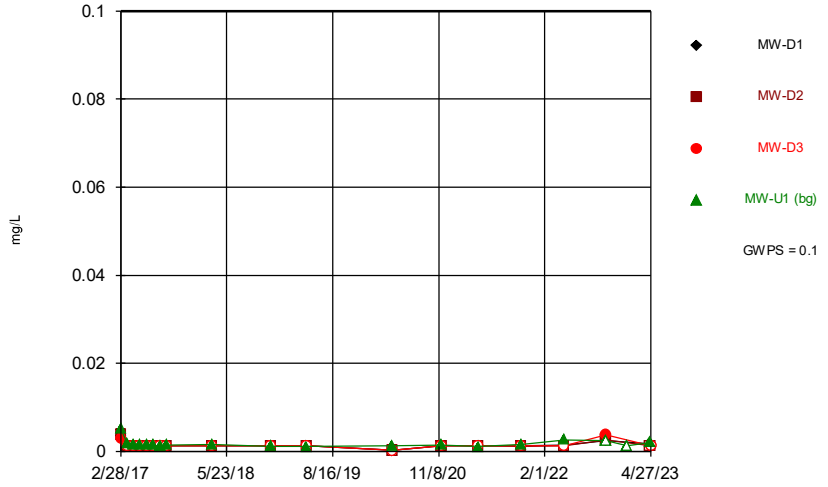
Hollow symbols indicate censored values.

Time Series




Constituent: Chromium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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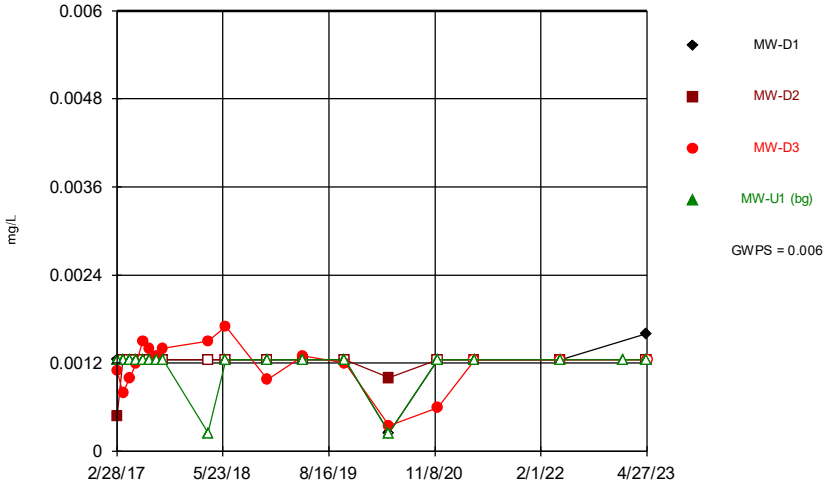
Hollow symbols indicate censored values.

Time Series




Constituent: Cobalt Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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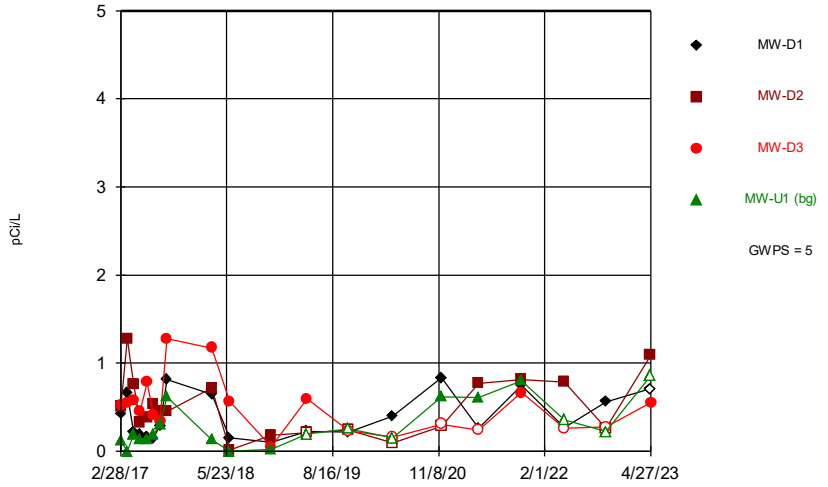
Hollow symbols indicate censored values.

Time Series




Constituent: Combined Radium 226 + 228 Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Event

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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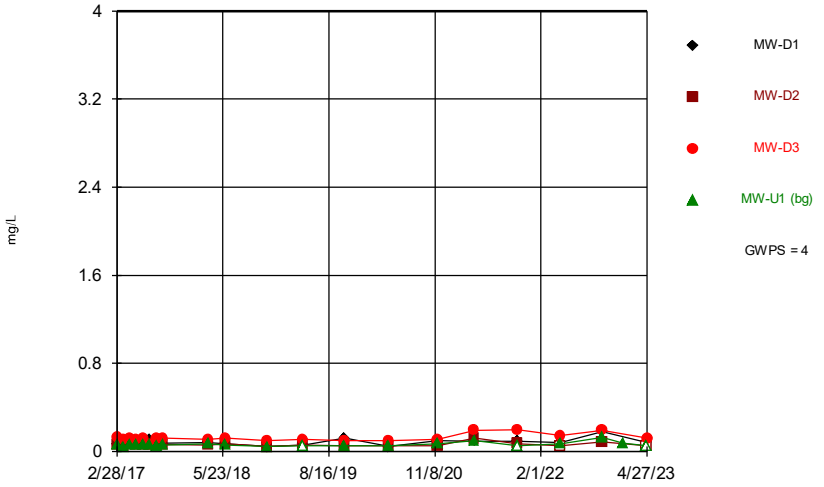
Hollow symbols indicate censored values.

Time Series




Constituent: Fluoride Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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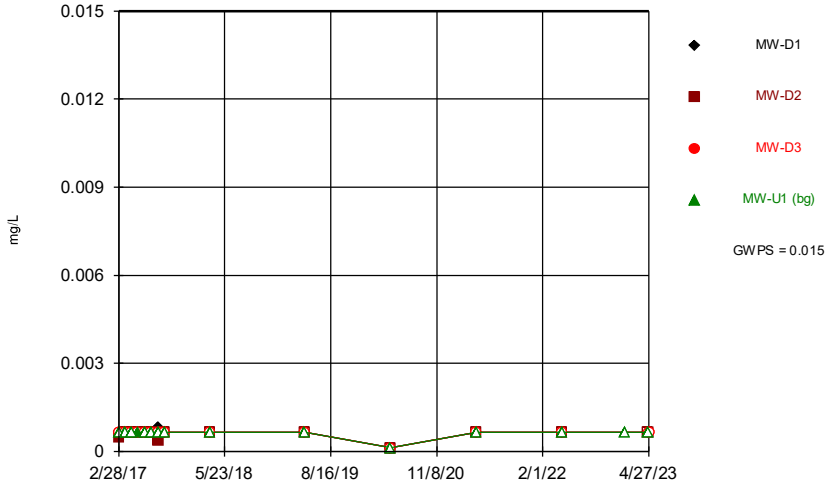
Hollow symbols indicate censored values.

Time Series




Constituent: Lead Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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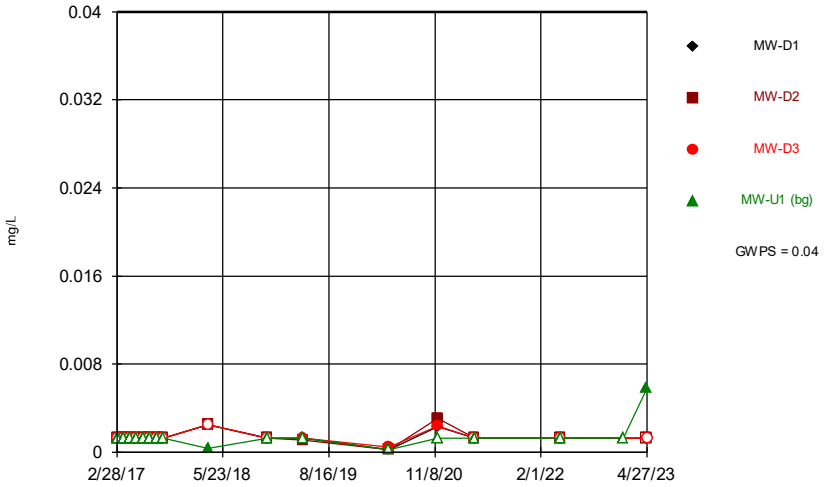
Hollow symbols indicate censored values.

Time Series




Constituent: Lithium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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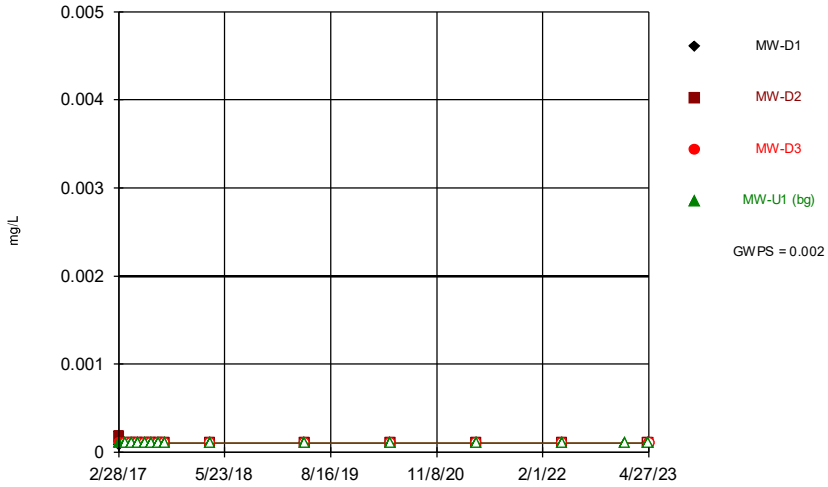
Hollow symbols indicate censored values.

Time Series




Constituent: Mercury Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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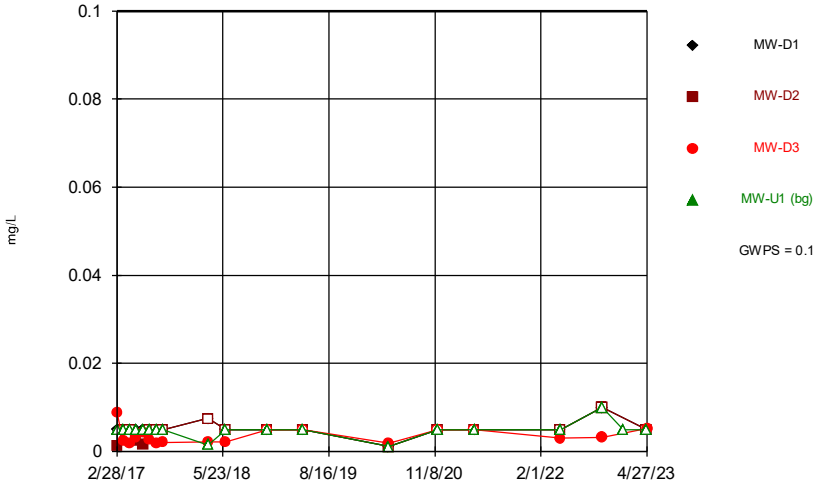
Hollow symbols indicate censored values.

Time Series




Constituent: Molybdenum Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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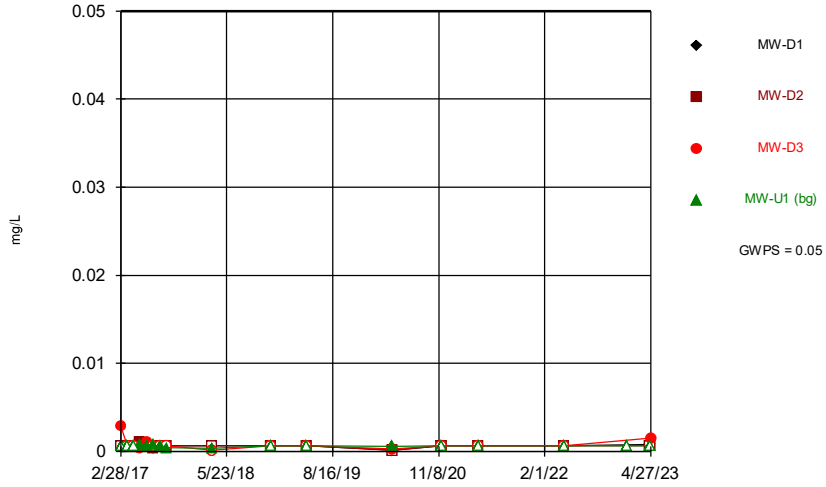
Hollow symbols indicate censored values.

Time Series




Constituent: Selenium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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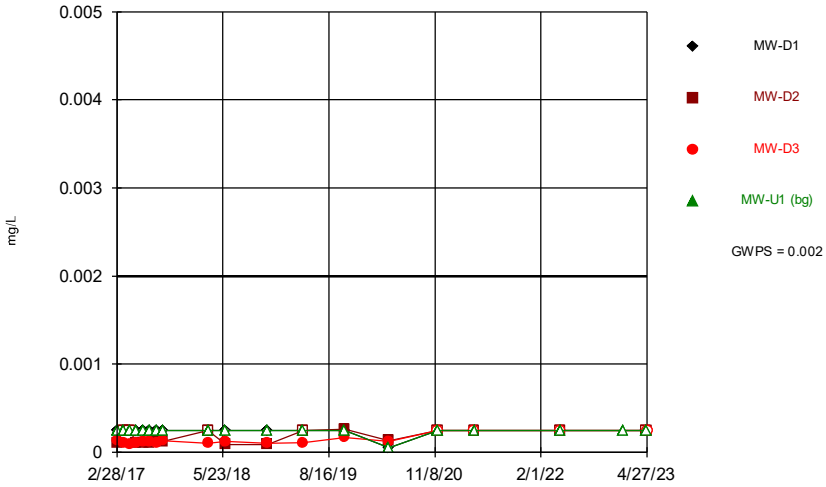
Hollow symbols indicate censored values.

Time Series




Constituent: Thallium Analysis Run 7/8/2023 12:14 PM View: Sanitas Statistics Events 1 through 20
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10