Prepared for

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

2022 ANNUAL GROUNDWATER MONITORING REPORT

CRISP COUNTY POWER COMMISSION
PLANT CRISP ASH POND
Warwick, Georgia

Prepared by

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January 2023

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CERTIFICATION BY QUALIFIED PROFESSIONAL ENGINEER

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

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CERTIFICATION BY QUALIFIED GROUNDWATER SCIENTIST

I certify that this 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 Annual Groundwater Monitoring Report includes statistical methods and narrative description appropriate for evaluating the groundwater monitoring data for the CCR management area.

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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
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 this reporting period (January through December 2022) are summarized as follows.

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

[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] Calcium and chromium were 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 Tables 4 through 7.

Appendix III Parameter	April 2022	October 2022
Boron	*MW-D1, MW-D2, MW-D3*	*MW-D3*
Calcium	*MW-D1, MW-D2*	*MW-D1, MW-D2, MW-D3*
Fluoride	*MW-D3*	*MW-D1, MW-D3*
Sulfate	*MW-D1, MW-D2, MW-D3*	*MW-D1, MW-D2, MW-D3*
Total Dissolved Solids (TDS)	*MW-D1, MW-D2, MW-D3*	*MW-D1, MW-D2, MW-D3*
Appendix IV Parameter[4]	*None*	*None*

- 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 July 2023.

[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 prediction limit. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

1.0 INTRODUCTION

1.1 Overview

Geosyntec Consultants (Geosyntec) of Kennesaw, Georgia, at the request of Crisp County Power Commission (CCPC), prepared this 2022 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 2022 by performing semi-annual monitoring events in April 2022 and October 2022. The April 2022 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 October 2022 semi-annual assessment monitoring event was performed for all parameters in Appendix III to part §257 and for those constituents in Appendix IV that were detected during the April 2022 monitoring (40 C.F.R. §257.95(d)(1)). The groundwater monitoring and statistical analyses were performed consistent with the Groundwater Monitoring and Statistical Analysis Plan prepared for the ash pond in October 2017 and revised in April 2020.

The purpose of this report is to present a summary of the April 2022 and October 2022 groundwater assessment monitoring activities and associated laboratory and statistical analysis results. The report has been prepared to meet the annual reporting requirements of 40 C.F.R. §257.90(e) and semi-annual reporting requirements of GA EPD CCR Rule 391-3-4-.10(6)(c).

In summary, the April 2022 and October 2022 sampling events detected concentrations of 40 C.F.R. §257, Appendix IV constituents but all concentrations were below their

respective United States Environmental Protection Agency's (USEPA's) maximum contaminant levels (MCLs) (Appendix I to 40 C.F.R. §257)[5].

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 have been mostly completed.

[5] 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 1.44×10^{-4} centimeters per second (cm/sec) [0.41 feet per day (ft/day)]. This value is similar to the K_h estimated for the alluvium and residuum during previous investigations.

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

1.4 Groundwater Monitoring Well Network

In accordance with 40 C.F.R. §257.91, a groundwater monitoring system was installed that: (1) consists of a sufficient number of wells; (2) is installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer; and (3) represents the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions. The well network was certified by a professional engineer (PE) on 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. Inspection of the certified well network was performed in April 2022 by a qualified groundwater scientist. A well inspection report was included in the Semi-annual Groundwater Monitoring Report, submitted to EPD in July 2022 (Geosyntec, 2022).

2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS RESULTS

2.1 Groundwater Sampling and Laboratory Analysis

Groundwater assessment monitoring events were conducted in April 2022 and in October 2022. 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 from the April and October monitoring events are summarized in **Table 2**. The groundwater elevation data were used to prepare potentiometric surface maps, provided as **Figure 2** and **Figure 3**, respectively. Based on the October 2022 potentiometric surface map, groundwater flow direction is from southeast towards northwest with a hydraulic gradient of approximately 0.007 feet per foot (ft/ft) (**Table 3**). The average horizontal groundwater flow velocity was calculated using Darcy's equation as approximately 5.4 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;

- 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 April 2022 groundwater samples were analyzed for Appendix III constituents (i.e., boron, calcium, chloride, fluoride, sulfate, total dissolved solids) and Appendix IV constituents (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226 and 228 combined, selenium, and thallium). The metal constituents were analyzed as total recoverable as the samples were not field-filtered. The October 2022 groundwater samples were analyzed for Appendix III constituents and the Appendix IV constituents that were detected during the April 2022 monitoring event (i.e., arsenic, barium, chromium, fluoride, molybdenum, and radium 226 and 228 combined). Groundwater pH, also an Appendix III constituent, was measured in the field using a Horiba water quality meter.

Field duplicate samples (DUP-18 in April 2022 and DUP-19 in October 2022) were collected for quality assurance/quality control (QA/QC). DUP-18 and DUP-19 were collected from monitoring well MW-D1. The duplicate samples were 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 April 2022 Groundwater Monitoring Results

Laboratory analytical results for Appendix III constituents from the April 2022 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, fluoride, molybdenum, and radium 226 and 228 combined) were detected in the downgradient monitoring wells. Low levels of arsenic, barium, chromium, and fluoride 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 2022 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**.

2.3 October 2022 Groundwater Monitoring Results

Laboratory analytical results of Appendix III constituents from the October 2022 groundwater assessment monitoring event are summarized in **Table 6**. Appendix III constituents were detected in the downgradient and upgradient monitoring well locations.

Laboratory analytical results of Appendix IV constituents from the October 2022 groundwater assessment monitoring event are summarized in **Table 7**. Low levels of Appendix IV constituents (barium, chromium, fluoride, molybdenum, and radium 226 and 228 combined) were detected in the downgradient monitoring wells but significantly below groundwater protection standard or MCL levels; however, the chromium and fluoride concentrations were approximate (i.e., shown with "J" flag), and chromium was detected in laboratory blank sample. Similarly, low levels of barium and fluoride were detected in the background/upgradient monitoring well MW-U1. **Table 7** shows that the detected concentrations of Appendix IV constituents are below their respective USEPA's MCLs or GWPS. Low level Appendix IV constituents detected during the October 2022 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background well. The October 2022 laboratory reports are provided in **Appendix B**.

The April and October 2022 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 during the April 2022 and October 2022 monitoring events. The PL for each constituent and the list of wells with SSIs are summarized in **Table 8**. Because Appendix III statistical analyses results indicated that groundwater conditions have not returned to background levels, assessment monitoring should continue pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule.

The statistical analysis results for Appendix IV constituents are summarized in **Table 9**, 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 10 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 2022 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 events indicated that Appendix IV constituents detected in the downgradient monitoring wells were below their respective GWPS. Pursuant to the CCR Rule 40 C.F.R. §257.95(d)(1) and GA EPD's CCR Rules, groundwater samples will be collected semi-annually for Appendix III and Appendix IV constituents. The next annual groundwater monitoring report summarizing the 2023 groundwater monitoring results will be submitted by January 31, 2024. Pursuant to the GA EPD CCR Rule 391-3-4-.10(6)(c), a semi-annual monitoring will be conducted in April 2023 and a semi-annual monitoring report will be submitted to GA EPD by July 31, 2023.

The ash pond's closure by removal is anticipated to be complete by the second quarter of 2023. Assuming the concentrations of the Appendix IV constituents continue to be remaining 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	233.78	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	TOC Elevation (ft MSL)	4/26/2022		10/19/2022	
		Depth to Groundwater (ft BTOC)	Groundwater Elevation[(1)] (ft MSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation[(1)] (ft MSL)
MW-D1	241.77	15.40	226.37	16.34	225.43
MW-D2	232.66	12.53	220.13	15.77	216.89
MW-D3	233.78	7.93	225.85	9.45	224.33
MW-U1	249.52	11.55	237.97	14.62	234.90
Lake Blackshear	--	--	236.98[(2)]	--	236.99[(3)]

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 4/26/2022 at 12:00 PM.
[(3)]: Surface water elevation on 10/19/2022 at 12:00 PM.

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

Well Gauging Date	Hydraulic Gradient				Groundwater Flow Velocity		
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K_h(ft/day)	ηe	V (ft/year)[1]
4/26/2022	237.97	226.37	1,315	0.009	0.41	0.20	6.6
10/19/2022	234.90	225.43	1,315	0.007	0.41	0.20	5.4

Notes:
ft = feet
ft/day = feet per day
ft/ft = feet per foot
ft/year = feet per year
h1 and h2 = groundwater elevation for MW-U1 and MW-D1, respectively.
$\Delta h/\Delta l$ = hydraulic gradient
K_h = hydraulic conductivity geometric mean of 0.41 ft/day estimated using slug testing in monitoring wells.
Δl = distance between MW-U1 and MW-D1.
ηe = 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 2022
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-D1	DUP-18		
Boron	mg/L	N/A	0.0012	<0.05 (0.0067 J)	0.15	0.14	0.11	0.19
Calcium	mg/L	N/A	0.63	34 B	65 B	61 B^2	130 B	21 B
Chloride	mg/L	N/A	1.4	<2.0 (1.9 J)	2.9	2.6	3.8	4.1
Fluoride	mg/L	4	0.070	<0.1 (0.070 J)	<0.1 (0.080 J)	<0.1 (0.082 J)	ND	0.14
Sulfate	mg/L	N/A	1.4	<5.0 (4.3 J)	29	29	16	33
pH[3]	SU	N/A	--	8.10	6.73	6.80	6.86	7.32
Total Dissolved Solids	mg/L	N/A	5.0	98	270	180	440	280

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.
^2 = Calibration Blank (initial calibration blank (ICB) and/or continuing calibration blank (CCB)) is outside acceptance limits.
-- = not applicable
DUP-18 is a duplicate sample collected from MW-D1.
(1): MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR
(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 2022
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-D1	DUP-18		
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.0012	0.0019	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00070	0.0031	0.015	0.014	0.14	0.072
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	0.0026	<0.0025 (0.0015 J)	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00056	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.070	<0.1 (0.070 J)	<0.1 (0.080 J)	<0.1 (0.082 J)	ND	0.14
Lead	mg/L	0.015[4]	N/A	0.00081	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0049	ND	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	ND	<0.01 (0.0030 J)
Radium 226 and 228 Combined	pCi/L	5	N/A	--[6]	0.239 U	0.314 U	0.357 U	0.783	0.374 U
Selenium	mg/L	0.05	N/A	0.00082	ND	ND	ND	ND	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: 0.716 pCi/L for MW-U1, 0.537 pCi/L for MW-D1, 0.591 pCi/L for MW-D2, 0.528 pCi/L for MW-D3, and 0.503 pCi/L for DUP-18.

Table 6. Appendix III Analytical Data Summary - Sampling Performed on 19-20 October 2022
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-D1	DUP-19		
Boron	mg/L	N/A	0.0024	ND	<0.1 (0.092 J)	0.10	<0.1 (0.095 J)	0.15
Calcium	mg/L	N/A	0.25	31	65	64	110	84
Chloride	mg/L	N/A	1.4	ND	2.5	2.5	3.5	2.8
Fluoride	mg/L	4	0.070	0.13	0.18	0.15	<0.1 (0.088 J)	0.19
Sulfate	mg/L	N/A	1.4	<5 (2.4 J)	31	32	18	33
pH[3]	SU	N/A	--	7.98	7.19	7.19	6.75	7.23
Total Dissolved Solids	mg/L	N/A	5.0	130	230	260	470	320

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.
-- = not applicable
DUP-19 is a duplicate sample collected from MW-D1.
(1): MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR
(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 7. Appendix IV Analytical Data Summary - Sampling Performed on 19-20 October 2022
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-D1	DUP-19		
Arsenic	mg/L	0.01	N/A	0.0024	ND	ND	ND	ND	ND
Barium	mg/L	2	N/A	0.00140	<0.005 (0.0024 J)	0.018	0.021	0.15	0.069
Chromium	mg/L	0.1[3]	N/A	0.0050	ND	ND	ND	<0.005 (0.0026 J^2B)	<0.005 (0.0037 J^2B)
Fluoride	mg/L	4	N/A	0.070	0.13	0.18	0.15	<0.1 (0.088 J)	0.19
Molybdenum	mg/L	N/A	0.1	0.0026	ND	ND	ND	ND	<0.02 (0.0032 J)
Radium 226 and 228 Combined	pCi/L	5	N/A	--[4]	0.301 U	0.559	0.448 U	-0.0787	0.446 U

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.

^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.

B = Compound was found in the blank and sample.

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]: During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.444 pCi/L for MW-U1, 0.438 pCi/L for MW-D1, 0.520 pCi/L for MW-D2, 0.545 pCi/L for MW-D3, and 0.533 pCi/L for DUP-19.

Table 8. 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 2022 Monitoring)	Wells with SSI (October 2022 Monitoring)
Boron (mg/L)	0.1	MW-D1, MW-D2, MW-D3	MW-D3
Calcium (mg/L)	39.56	MW-D1, MW-D2	MW-D1, MW-D2, MW-D3
Chloride (mg/L)	9.833	None	None
Field pH (SU)	<5.684 or >8.974	None	None
Fluoride (mg/L)	0.1142	MW-D3	MW-D1, MW-D3
Sulfate (mg/L)	6.538	MW-D1, MW-D2, MW-D3	MW-D1, MW-D2, MW-D3
Total Dissolved Solids (TDS) (mg/L)	144.2	MW-D1, MW-D2, MW-D3	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 October 2022. The April 2022 concentrations were compared to the predication values calculated in April 2022. The October 2022 measurements were compared with the most recent prediction limit values.

Table 9. 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	13	13	100%	<0.0005	<0.0025		0.006	0.006
	MW-D2	13	13	100%	<0.0005	<0.0025			
	MW-D3	13	13	100%	<0.0005	<0.0025			
	MW-U1	13	13	100%	<0.0005	<0.0025	0.0025		
Arsenic [mg/L]	MW-D1	19	19	100%	<0.00025	<0.0025		0.01	0.01
	MW-D2	19	15	79%	0.00027 (B)	<0.0025			
	MW-D3	19	5	26%	0.00048 (J)	<0.0025			
	MW-U1	19	15	79%	0.00015 (JB)	<0.0025	0.0025		
Barium [mg/L]	MW-D1	19	0	0%	0.0095	0.027		2	2
	MW-D2	19	0	0%	0.087	0.190			
	MW-D3	19	0	0%	0.061	0.230			
	MW-U1	19	0	0%	0.0018	0.0062	0.0062		
Beryllium [mg/L]	MW-D1	13	13	100%	<0.0004	<0.0025		0.004	0.004
	MW-D2	13	13	100%	<0.0004	<0.0025			
	MW-D3	13	13	100%	<0.0004	<0.0025			
	MW-U1	13	13	100%	<0.0004	<0.0025	0.002		
Cadmium [mg/L]	MW-D1	14	14	100%	<0.0002	<0.0025		0.005	0.005
	MW-D2	14	13	93%	0.000075 (J)	<0.0025			
	MW-D3	14	13	93%	0.000071 (J)	<0.0025			
	MW-U1	14	14	100%	<0.0002	<0.0025	0.001		
Chromium [mg/L]	MW-D1	17	15	88%	<0.0005	0.0034		0.1	0.1
	MW-D2	17	14	82%	<0.0005	0.0038			
	MW-D3	17	15	88%	<0.0005	0.0037			
	MW-U1	17	1	6%	0.0011	0.0051	0.0051		
Cobalt [mg/L]	MW-D1	17	17	100%	<0.0005	<0.0025		0.006	0.006
	MW-D2	17	15	88%	0.00047 (J)	<0.0025			
	MW-D3	17	2	12%	0.00035 (J)	<0.0025			
	MW-U1	17	17	100%	<0.0005	<0.0025	0.0025		
Fluoride [mg/L]	MW-D1	19	0	0%	0.040	0.180		4	4
	MW-D2	19	1	5%	0.040	0.120			
	MW-D3	19	0	0%	0.060	0.200 F1			
	MW-U1	19	2	11%	0.040	0.130	0.143		
Lead [mg/L]	MW-D1	13	12	92%	<0.00025	<0.0013		0.015	0.0015
	MW-D2	13	11	85%	<0.00025	<0.0013			
	MW-D3	13	13	100%	<0.00025	<0.0013			
	MW-U1	13	12	92%	<0.00025	<0.0013	0.0013		
Lithium [mg/L]	MW-D1	15	14	93%	<0.0005	<0.005		0.04	0.04
	MW-D2	15	13	87%	<0.0005	<0.005			
	MW-D3	15	12	80%	0.00048 (J)	<0.005			
	MW-U1	15	14	93%	0.00034 (J)	<0.0025	0.0025		
Mercury [mg/L]	MW-D1	13	12	92%	0.000077 (JB)	<0.0002		0.002	0.002
	MW-D2	13	11	85%	0.00011 (JB)	<0.0002			
	MW-D3	13	12	92%	0.00011 (JB)	<0.0002			
	MW-U1	13	12	92%	0.000099 (JB)	<0.0002	0.0002		
Molybdenum [mg/L]	MW-D1	17	17	100%	<0.002	<0.02		0.10	0.10
	MW-D2	17	14	82%	0.0012 (J)	<0.02			
	MW-D3	17	4	24%	0.0017 (J)	<0.01			
	MW-U1	17	17	100%	<0.002	<0.02	0.02		
Radium 226 and 228 228 Combined [pCi/L]	MW-D1	19	4	21%	0.0994	0.833		5	5
	MW-D2	19	5	26%	0.0139	1.280			
	MW-D3	19	6	32%	0.0501	1.280			
	MW-U1	19	5	26%	0.000	0.801	1.557		
Selenium [mg/L]	MW-D1	15	14	93%	<0.00025	<0.0013		0.05	0.05
	MW-D2	15	12	80%	<0.00025	<0.0013			
	MW-D3	15	11	73%	0.00021 (J)	0.0028			
	MW-U1	15	8	53%	0.00039	<0.0013	0.0013		
Thallium [mg/L]	MW-D1	17	17	100%	<0.0001	<0.0005		0.002	0.002
	MW-D2	17	7	41%	0.000085 (J)	<0.0005			
	MW-D3	17	3	18%	0.000095 (J)	<0.0005			
	MW-U1	17	17	100%	<0.0001	<0.0005	0.0005		

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 10. 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 9)	Lower Confidence Limit if Detected During the 2022 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		0.000250	No
	MW-D2		0.00095	No
	MW-D3		0.000776	No
Barium [mg/L]	MW-U1	2	Background Well	
	MW-D1		0.0115	No
	MW-D2		0.1265	No
	MW-D3		0.1148	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		0.00150	No
	MW-D2		0.00120	No
	MW-D3		0.00050	No
Cobalt [mg/L]	MW-U1	0.0060	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Fluoride [mg/L]	MW-U1	4	Background Well	
	MW-D1		0.06213	No
	MW-D2		0.050	No
	MW-D3		0.100	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		0.002	No
	MW-D2		0.002	No
	MW-D3		0.0019	No
Radium 226 and 228 228 Combined [pCi/L]	MW-U1	5	Background Well	
	MW-D1		0.1560	No
	MW-D2		0.3330	No
	MW-D3		0.4090	No
Selenium [mg/L]	MW-U1	0.05	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	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 November 2021.

Legend

- Groundwater Monitoring Well
- Ash Pond Limits
- Approximate CCPC Property Boundary

0 250 500 1,000 Feet

Groundwater Monitoring Well Location Map

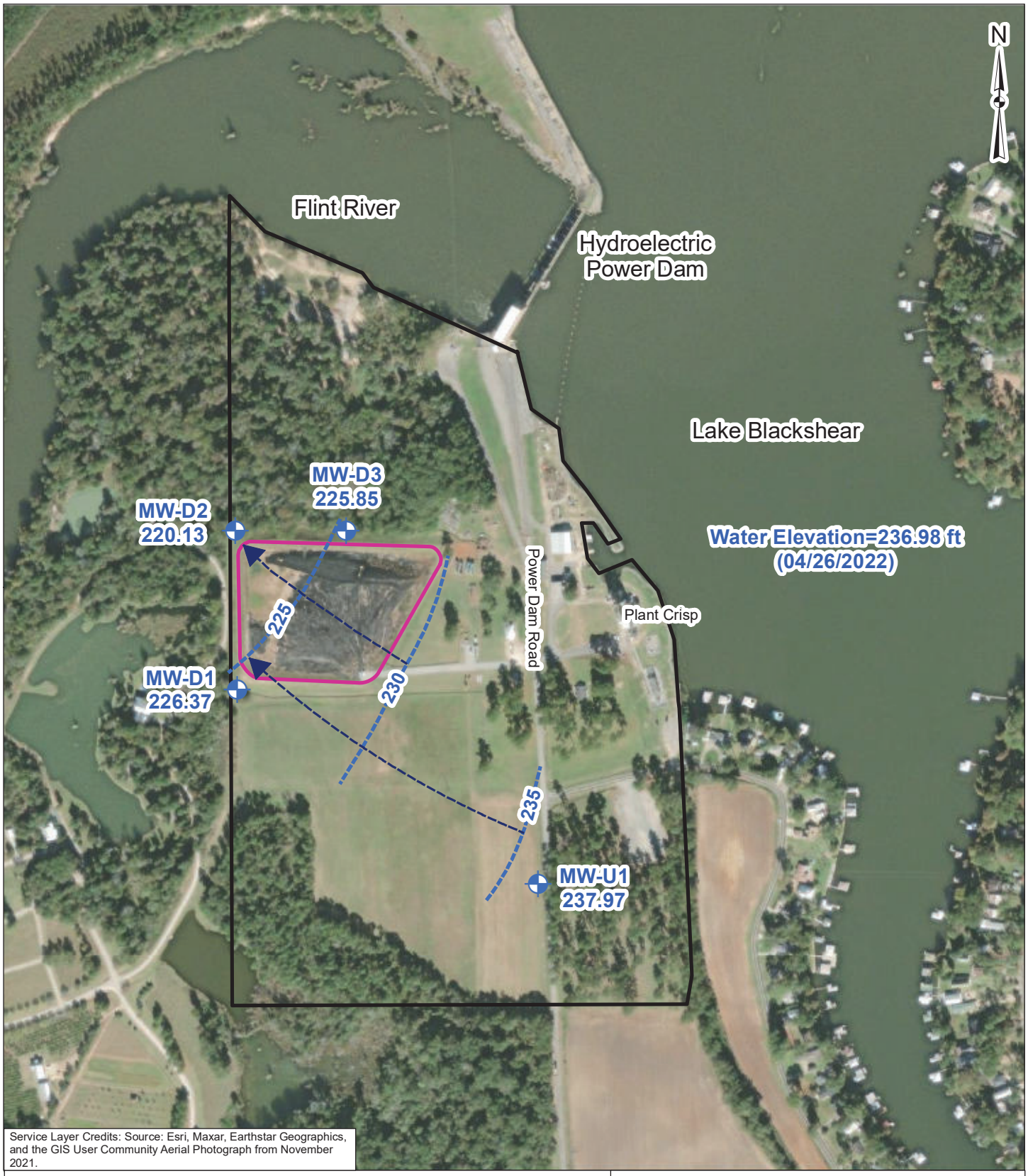
Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants

KENNESAW, GA

DATE:	JANUARY 2023
PROJECT NO.	GW6152
DOCUMENT NO.	GA230002
FILE NO.	GW Monitoring Well Location Map.mxd
FIGURE NO.	1

\\Aro-01\prj1$\Crisp County\GIS\MXD\2023\GW Monitoring Well Location Map.mxd 1/16/2023 2:28:58 PM



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from November 2021.

Legend

- Groundwater Monitoring Well
- Groundwater Elevation Contour- 26 April 2022 (ft, MSL)
- Groundwater Flow Direction
- Ash Pond Limits
- Approximate CCPC Property Boundary

0 250 500 1,000 Feet

Potentiometric Surface Map
26 April 2022
Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants
KENNESAW, GA

DATE:	JANUARY 2023
PROJECT NO.	GW6152
DOCUMENT NO.	GA230002
FILE NO.	APRIL 2022 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	2

\\Aro-01\prj1$\Crisp County\GIS\MXD\2023\April 2022 Potentiometric Surface Map.mxd 1/12/2023 4:08:29 PM

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Aerial Photograph from November 2021.

Legend

- Groundwater Monitoring Well
- Groundwater Elevation Contour- 19 October 2022 (ft, MSL)
- Groundwater Flow Direction
- Ash Pond Limits
- Approximate CCPC Property Boundary

0 250 500 1,000 Feet

Potentiometric Surface Map
19 October 2022
Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants

KENNESAW, GA

DATE:	JANUARY 2023
PROJECT NO.	GW6152
DOCUMENT NO.	GA230002
FILE NO.	APRIL 2022 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	3

N:\Crisp County\GIS\MXD\2023\October 2022 Potentiometric Surface Map DY.mxd 1/12/2023 4:58:59 PM

APPENDIX A

Field Groundwater Sampling Forms

April 2022

Water Level Measurement Form

Site Name:	Crisp County Power	**Sampling Person:**	Tristan Orndorff
Location:	Warwick, Georgia	**Field Conditions:**	Cloudy early Sunny afternoon
Date:	04/20/2022		

Well ID	Time	TOC ELevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-U1	8:53	249.52	11.55	37.4	237.97	
MW-D1	9:04	241.77	15.40	22.86	226.37	
MW-D2	9:10	232.66	12.53	22.6	220.13	
MW-D3	9:15	233.78	7.93	22.7	225.85	
END OF DAY WATER LEVELS						
MW-U1	4:26	249.52	11.55	37.4	237.97	
MW-D1	4:20	241.77	15.35	22.86	226.42	
MW-D2	4:12	232.66	12.8	22.6	219.86	
MW-D3	4:18	233.78	8.9	22.7	224.88	

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: 4/26/2022	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 15.36	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) = (22.86 feet – 15.36 feet) X 0.16 gallons/foot = 1.2 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): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 11:19	PURGING ENDED AT: 12:30	TOTAL VOLUME PURGED (gallons): 2.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	~~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)
11:19	0.0	0.0	255	15.70	7.40	23.47	0.377	3.61	5.10	227	clear
11:30	0.74	0.74	255	15.84	6.74	23.37	0.380	3.78	0.47	252	clear
11:35	0.34	1.08	255	16.30	6.76	23.36	0.383	3.69	0.22	246	clear
11:42	0.43	1.50	230	16.10	6.79	23.46	0.382	3.44	0.16	239	clear
11:49	0.43	1.93	230	16.24	6.81	23.60	0.375	3.18	0.15	234	clear
11:54	0.30	2.23	230	16.30	6.81	23.83	0.368	2.99	0.32	231	clear
12:00	0.36	2.60	230	16.41	6.80	23.93	0.351	2.90	0.54	228	clear
12:30 (from dup)	1.82	4.42	230	16.70	6.73	24.15	0.332	3.00	1.21	232	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: Tristan Orndorff / Geosyntec	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT: 12:00	SAMPLING ENDED AT: 12:10
PUMP OR TUBING DEPTH IN WELL (feet): 19	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: yes
3. Sampling & Purging Equipment Condition: clean
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: 4/26/2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 12.55	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) = (22.6 feet – 12.55 feet) X 0.16 gallons/foot = 1.61 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): 17	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17	PURGING INITIATED AT: 1:23	PURGING ENDED AT: 2:01	TOTAL VOLUME PURGED (gallons): 2.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	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)
1:23	0.0	0.0	240	13.40	6.60	23.25	0.443	1.37	0.30	236	Clear
1:29	0.38	0.38	240	13.41	6.43	21.80	0.559	0.00	0.18	239	clear
1:35	0.38	0.76	240	13.70	6.33	21.71	0.557	0.00	0.10	237	clear
1:42	0.41	1.17	220	13.90	6.35	21.73	0.587	0.00	0.23	231	clear
1:49	0.37	1.54	200	14.04	6.366	21.80	0.593	0.00	0.14	212	clear
1:56	0.37	1.91	200	14.19	6.75	21.99	0.601	0.00	0.15	202	clear
2:01	0.26	2.17	200	14.26	6.72	22.17	0.6066	0.00	0.18	195	clear
2:25	0.32	2.49	200	14.46	6.86	22.40	6.607	0.00	0.12	1162	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: Tristan Orndorff / Geosyntec	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT: 2:01	SAMPLING ENDED AT: 2:24
PUMP OR TUBING DEPTH IN WELL (feet): 17	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: yes
3. Sampling & Purging Equipment Condition: clean, something may be wrong with DO?
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: 4/26/2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 8.03	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) = (22.7 feet – 8.03 feet) X 0.16 gallons/foot = 2.35 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	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 3:05	PURGING ENDED AT: 3:44	TOTAL VOLUME PURGED (gallons): 2.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	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)
3:05	0.0	0.0	230	9.3	7.41	29.87	0.448	0.00	0.24	183	clear
3:16	0.60	0.60	205	9.82	7.41	28.65	0.449	0.00	0.03	181	clear
3:23	0.35	0.95	190	9.90	7.40	27.27	0.458	0.00	0.09	173	clear
3:28	0.25	1.20	190	9.93	7.39	27.07	0.462	0.00	0.09	–	clear
3:36	0.40	1.60	190	9.94	7.39	26.94	0.4610	0.00	0.09	149	clear
3:44	0.40	2.00	190	9.95	7.36	26.80	0.460	0.00	0.10	136	clear
4:10	1.31	3.31	190	9.95	7.32	27.14	0.464	0.00	0.09	127	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: Tristan Crndorff / Geosyntec	SAMPLER(S) SIGNATURE(S): Tristan Crndorff	SAMPLING INITIATED AT: 3:50	SAMPLING ENDED AT: 4:10
PUMP OR TUBING DEPTH IN WELL (feet): 15	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: No issues
3. Sampling & Purging Equipment Condition: Clean DO Results?
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-01	SAMPLE ID: MW-01 — DATE: 4/26/2022

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **0.25**	WELL SCREEN INTERVAL DEPTH: 27 feet to 37 feet	STATIC DEPTH TO WATER (feet): 11.55	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) = (37.4 feet − 11.55 feet) X **0.16** gallons/foot = 4.14 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): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 9:45	PURGING ENDED AT: 10:35	TOTAL VOLUME PURGED (gallons): 3.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	~~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)
9:45	0.0	0.0	290	11.55	6.58	22.21	0.218	5.97	9.80	295	clear
9:55	0.66	0.66	250	12.40	7.06	22.11	0.212	5.38	18.10	280	clear
10:03	0.53	1.19	250	12.23	7.86	22.10	0.178	4.25	16.00	232	clear
10:11	0.53	1.72	250	12.23	7.95	22.15	0.176	4.11	13.90	221	clear
10:18	0.46	2.18	250	12.23	8.04	22.18	0.173	4.05	12.00	204	clear
10:25	0.46	2.64	250	12.23	8.09	22.20	0.171	3.84	10.32	199	clear
10:30	0.33	2.97	250	12.23	8.10	22.26	0.169	4.14	9.56	196	clear
10:35	0.33	3.30	250	12.23	8.10	22.29	0.169	4.04	8.96	196	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: Tristan Orndorff / Geosyntec	SAMPLER(S) SIGNATURE(S): Tristan Orndorff	SAMPLING INITIATED AT: 10:30	SAMPLING ENDED AT: 10:50
PUMP OR TUBING DEPTH IN WELL (feet): 25	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: No access issues.
3. Sampling & Purging Equipment Condition: clean
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.

October 2022

Monitoring Well ID	Total Well Depth (ft btoc)	Depth to Water (ft btoc) 07/08/2022	10/19/22	Time
MW-U1	33.75	14.59	14.62	1041
MW-D1	19.50	16.35	16.34	1108
MW-D2	19.75	15.66	15.77	1117
MW-D3	19.50	8.99	9.45	1148

GROUNDWATER SAMPLING LOG

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 10/19/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 14.67	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) = (37.34 feet – feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12PM	PURGING ENDED AT: 1PM	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or %saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
12:15	0.2	0.5	150	15.05	7.99	20.42	0.206	6.34	1.86	331	Clear
12:20	0.2	0.7	150	15.10	7.95	20.51	0.206	6.53	1.45	338	
12:25	0.2	0.9	150	15.12	7.95	20.54	0.205	6.57	1.17	342	
12:30	0.2	1.1	150	15.12	7.98	20.51	0.205	6.47	0.95	344	

DLC

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: Dalton Kegley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:35	SAMPLING ENDED AT: 13:00
PUMP OR TUBING DEPTH IN WELL (feet):	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	----	7.96	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.94	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.96	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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

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

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; 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	10/20/22		

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		16.32	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (22.46 feet – 16.32 feet) X 0.16 gallons/foot = 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)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
			11:05	

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
11:15	0.33	0.5	250	16.91	7.31	20.87	0.397	3.08	0.65	376	Clear
11:20	0.33	0.83	250	17.12	7.14	21.16	0.410	1.69	0.49	314	
11:25	0.33	1.16	250	17.25	7.18	21.20	0.414	1.24	0.39	310	
11:30	0.33	1.49	250	17.32	7.19	20.85	0.421	3.40	0.42	327	
11:35	0.33	1.82	250	17.39	7.20	20.87	0.424	3.11	0.76	332	
11:40	0.33	2.15	250	17.45	7.20	20.91	0.426	2.71	0.53	348	
11:45	0.33	2.48	250	17.51	7.17	20.85	0.432	5.05	1.15	385	
11:50	0.33	2.81	250	17.55	7.18	20.46	0.433	5.06	1.30	385	
11:55	0.33	3.14	250	17.60	7.19	20.85	0.432	4.93	1.35	343	
			DK								

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
Dalton Kegley / Geosyntec		12 PM	12:30

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE	FIELD-FILTERED Y (N) Filtration Equipment Type	FILTER SIZE ____ µm
	LDPE		

FIELD DECONTAMINATION PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE (Y) N DUP 19

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	----	7.19	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.19	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.19	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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

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

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump, B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, 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: 10/20/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 15.77	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 − feet) X 0.16 gallons/foot = 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 13.10	PURGING ENDED AT: 13.53	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
13.20	0.3	0.5	220	16.21	6.77	21.00	0.557	0.26	0.41	220	clear
13.25	0.3	0.8	220	16.42	6.74	21.11	0.562	0.12	0.54	195	↓
13.30	0.3	1.1	220	16.59	6.74	21.15	0.568	0.06	0.48	191	
13.35	0.3	1.4	220	16.73	6.75	21.09	0.570	0.01	0.36	188	
				DG							

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Derya Genc	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13.36	SAMPLING ENDED AT: 13.53
PUMP OR TUBING DEPTH IN WELL (feet):	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: Good
3. Sampling & Purging Equipment Condition: Good
4. Site Condition that may Affect Sampling Present? ____ Yes (describe below) ✓ No

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

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; 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	10/20/22		

PURGING DATA

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER
2	0.25		9.51	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (22.84 feet – 9.51 feet) X 0.16 gallons/foot = 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) + 10:25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
		9:20	~~9:20~~	~~1.8~~

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
9:25	0.2	0.4	150	9.51	7.50	18.65	0.474	6.30	2.24	361	Clear
9:30	0.2	0.6	150	10.76	7.36	19.60	0.485	3.89	1.40	364	
9:35	0.2	0.8	150	10.88	7.25	20.14	0.499	1.99	0.87	361	
9:40	0.2	1.0	150	10.92	7.21	20.27	0.515	1.62	1.44	341	
9:45	0.2	1.2	150	10.97	7.22	20.44	0.524	0.72	0.760	322	
9:50	0.2	1.4	150	10.97	7.22	20.53	0.529	0.46	1.23	308	
9:55	0.2	1.6	150	10.97	7.23	20.60	0.534	0.45	1.17	297	
10:00	0.2	1.8	150	10.99	7.23	20.66	0.537	0.35	1.29	291	↓
		DK									

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	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT	SAMPLING ENDED AT
Dalton Kegley / Geosyntec		10:05	10:25

PUMP OR TUBING DEPTH IN WELL (feet)	TUBING MATERIAL CODE	FIELD-FILTERED Y (N) Filtration Equipment Type	FILTER SIZE ____ µm
	LDPE		

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	----	7.23	9315, 9320, Ra226, Ra228	APP	250
	1	HDPE	1.0L	NONE	----	7.23	SM4500, 2540C	APP	250
	1	HDPE	0.25L	HNO3	----	7.23	6020, 7470A	APP	250

FIELD SAMPLING CONDITIONS:

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

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

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

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

APPENDIX B

Laboratory Analytical Reports

April 2022

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-219114-1
Laboratory Sample Delivery Group: CCPC, Warwick GA
Client Project/Site: Crisp County CCR

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Cheyenne R Whitmire

Authorized for release by:
5/12/2022 4:49:48 PM

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

Table of Contents

Job ID: 400-219114-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-219114-1

Receipt
The samples were received on 4/28/2022 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 9.8º C and 11.9º C.

Metals
Method 6020: The method blank for preparation batch 400-576023 and analytical batch 400-576143 contained Calcium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6020: The continuing calibration blank (CCB) for analytical batch 400-576309 contained Calcium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

General Chemistry
Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-575886 was outside control limits. Sample non-homogeneity is suspected.

Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-576207 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 SO4 E: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 400-576114 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Client Sample ID: DUP-18 — Lab Sample ID: 400-219114-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.014		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.14		0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	61	B ^2	1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	180		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	0.082	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	29		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.80				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D2 — Lab Sample ID: 400-219114-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.14		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.11		0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	130	B	1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	440		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	16		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.86				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D3 — Lab Sample ID: 400-219114-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.072		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.19		0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	21	B	1.3	0.63	mg/L	25		6020	Total Recoverable
Molybdenum	0.0030	J	0.010	0.0013	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	280		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	0.14		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	33		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.32				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D1 — Lab Sample ID: 400-219114-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.15		0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	65	B	1.3	0.63	mg/L	25		6020	Total Recoverable
Chromium	0.0015	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	270		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Client Sample ID: MW-D1 (Continued)

Lab Sample ID: 400-219114-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.080	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	29		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.73				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U1

Lab Sample ID: 400-219114-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0019		0.0013	0.0012	mg/L	5		6020	Total Recoverable
Barium	0.0031		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.0067	J	0.050	0.0012	mg/L	5		6020	Total Recoverable
Calcium	34	B	0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0026		0.0025	0.0010	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	98		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	1.9	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.070	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.3	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	8.10				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 CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

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

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-219114-1	DUP-18	Water	04/26/22 00:01	04/28/22 09:07
400-219114-2	MW-D2	Water	04/26/22 14:01	04/28/22 09:07
400-219114-3	MW-D3	Water	04/26/22 15:50	04/28/22 09:07
400-219114-4	MW-D1	Water	04/26/22 12:00	04/28/22 09:07
400-219114-5	MW-U1	Water	04/26/22 10:30	04/28/22 09:07

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Client Sample ID: DUP-18

Date Collected: 04/26/22 00:01
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-1

Matrix: Water

Method: 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		05/02/22 12:01	05/03/22 02:02	5
Arsenic	ND		0.0013	0.0012	mg/L		05/02/22 12:01	05/03/22 02:02	5
Barium	**0.014**		0.0025	0.00070	mg/L		05/02/22 12:01	05/03/22 02:02	5
Beryllium	ND		0.0020	0.00092	mg/L		05/02/22 12:01	05/03/22 02:02	5
Boron	**0.14**		0.050	0.0012	mg/L		05/02/22 12:01	05/03/22 02:02	5
Cadmium	ND		0.0010	0.00065	mg/L		05/02/22 12:01	05/03/22 02:02	5
Calcium	**61**	**B ^2**	1.3	0.63	mg/L		05/02/22 12:01	05/03/22 20:12	25
Chromium	ND		0.0025	0.0010	mg/L		05/02/22 12:01	05/03/22 02:02	5
Cobalt	ND		0.0025	0.00056	mg/L		05/02/22 12:01	05/03/22 02:02	5
Lead	ND		0.0013	0.00081	mg/L		05/02/22 12:01	05/03/22 02:02	5
Lithium	ND		0.0025	0.0049	mg/L		05/02/22 12:01	05/03/22 02:02	5
Molybdenum	ND		0.010	0.0013	mg/L		05/02/22 12:01	05/03/22 02:02	5
Selenium	ND		0.0013	0.00082	mg/L		05/02/22 12:01	05/03/22 02:02	5
Thallium	ND		0.00050	0.00046	mg/L		05/02/22 12:01	05/03/22 02:02	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/03/22 10:38	05/03/22 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**180**		5.0	5.0	mg/L			04/29/22 16:51	1
Chloride	**2.6**		2.0	1.4	mg/L			05/03/22 00:25	1
Fluoride	**0.082**	**J**	0.10	0.070	mg/L			05/09/22 12:55	1
Sulfate	**29**		5.0	1.4	mg/L			05/03/22 02:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.80**				SU			04/25/22 23:01	1

Client Sample ID: MW-D2

Date Collected: 04/26/22 14:01
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-2

Matrix: Water

Method: 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		05/02/22 12:01	05/03/22 02:25	5
Arsenic	ND		0.0013	0.0012	mg/L		05/02/22 12:01	05/04/22 15:22	5
Barium	**0.14**		0.0025	0.00070	mg/L		05/02/22 12:01	05/03/22 02:25	5
Beryllium	ND		0.0020	0.00092	mg/L		05/02/22 12:01	05/03/22 02:25	5
Boron	**0.11**		0.050	0.0012	mg/L		05/02/22 12:01	05/03/22 02:25	5
Cadmium	ND		0.0010	0.00065	mg/L		05/02/22 12:01	05/03/22 02:25	5
Calcium	**130**	**B**	1.3	0.63	mg/L		05/02/22 12:01	05/03/22 20:31	25
Chromium	ND		0.0025	0.0010	mg/L		05/02/22 12:01	05/03/22 02:25	5
Cobalt	ND		0.0025	0.00056	mg/L		05/02/22 12:01	05/03/22 02:25	5
Lead	ND		0.0013	0.00081	mg/L		05/02/22 12:01	05/03/22 02:25	5
Lithium	ND		0.0025	0.0049	mg/L		05/02/22 12:01	05/03/22 02:25	5
Molybdenum	ND		0.010	0.0013	mg/L		05/02/22 12:01	05/03/22 02:25	5
Selenium	ND		0.0013	0.00082	mg/L		05/02/22 12:01	05/03/22 02:25	5
Thallium	ND		0.00050	0.00046	mg/L		05/02/22 12:01	05/03/22 02:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/03/22 10:38	05/03/22 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**440**		5.0	5.0	mg/L			05/03/22 14:20	1
Chloride	**3.8**		2.0	1.4	mg/L			05/03/22 00:25	1
Fluoride	ND		0.10	0.070	mg/L			04/29/22 11:57	1
Sulfate	**16**		5.0	1.4	mg/L			05/03/22 02:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.86**				SU			04/26/22 13:01	1

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Client Sample ID: MW-D3

Date Collected: 04/26/22 15:50
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-3

Matrix: Water

Method: 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		05/02/22 12:01	05/03/22 02:29	5
Arsenic	ND		0.0013	0.0012	mg/L		05/02/22 12:01	05/03/22 02:29	5
Barium	**0.072**		0.0025	0.00070	mg/L		05/02/22 12:01	05/03/22 02:29	5
Beryllium	ND		0.0020	0.00092	mg/L		05/02/22 12:01	05/03/22 02:29	5
Boron	**0.19**		0.050	0.0012	mg/L		05/02/22 12:01	05/03/22 02:29	5
Cadmium	ND		0.0010	0.00065	mg/L		05/02/22 12:01	05/03/22 02:29	5
Calcium	**21**	**B**	1.3	0.63	mg/L		05/02/22 12:01	05/03/22 20:35	25
Chromium	ND		0.0025	0.0010	mg/L		05/02/22 12:01	05/03/22 02:29	5
Cobalt	ND		0.0025	0.00056	mg/L		05/02/22 12:01	05/03/22 02:29	5
Lead	ND		0.0013	0.00081	mg/L		05/02/22 12:01	05/03/22 02:29	5
Lithium	ND		0.0025	0.0049	mg/L		05/02/22 12:01	05/03/22 02:29	5
Molybdenum	**0.0030**	**J**	0.010	0.0013	mg/L		05/02/22 12:01	05/03/22 02:29	5
Selenium	ND		0.0013	0.00082	mg/L		05/02/22 12:01	05/03/22 02:29	5
Thallium	ND		0.00050	0.00046	mg/L		05/02/22 12:01	05/03/22 02:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/03/22 10:38	05/03/22 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**280**		5.0	5.0	mg/L			05/03/22 14:20	1
Chloride	**4.1**		2.0	1.4	mg/L			05/03/22 00:25	1
Fluoride	**0.14**		0.10	0.070	mg/L			04/29/22 11:49	1
Sulfate	**33**		5.0	1.4	mg/L			05/03/22 02:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.32**				SU			04/26/22 14:50	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Client Sample ID: MW-D1

Date Collected: 04/26/22 12:00
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-4

Matrix: Water

Method: 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		05/02/22 12:01	05/03/22 02:32	5
Arsenic	ND		0.0013	0.0012	mg/L		05/02/22 12:01	05/03/22 02:32	5
Barium	**0.015**		0.0025	0.00070	mg/L		05/02/22 12:01	05/03/22 02:32	5
Beryllium	ND		0.0020	0.00092	mg/L		05/02/22 12:01	05/03/22 02:32	5
Boron	**0.15**		0.050	0.0012	mg/L		05/02/22 12:01	05/03/22 02:32	5
Cadmium	ND		0.0010	0.00065	mg/L		05/02/22 12:01	05/03/22 02:32	5
Calcium	**65**	**B**	1.3	0.63	mg/L		05/02/22 12:01	05/03/22 20:41	25
Chromium	**0.0015**	**J**	0.0025	0.0010	mg/L		05/02/22 12:01	05/03/22 02:32	5
Cobalt	ND		0.0025	0.00056	mg/L		05/02/22 12:01	05/03/22 02:32	5
Lead	ND		0.0013	0.00081	mg/L		05/02/22 12:01	05/03/22 02:32	5
Lithium	ND		0.0025	0.0049	mg/L		05/02/22 12:01	05/03/22 20:38	5
Molybdenum	ND		0.010	0.0013	mg/L		05/02/22 12:01	05/03/22 02:32	5
Selenium	ND		0.0013	0.00082	mg/L		05/02/22 12:01	05/03/22 02:32	5
Thallium	ND		0.00050	0.00046	mg/L		05/02/22 12:01	05/03/22 02:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/03/22 10:38	05/03/22 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**270**		5.0	5.0	mg/L			05/03/22 14:20	1
Chloride	**2.9**		2.0	1.4	mg/L			05/03/22 00:25	1
Fluoride	**0.080**	**J**	0.10	0.070	mg/L			04/29/22 11:53	1
Sulfate	**29**		5.0	1.4	mg/L			05/03/22 02:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.73**				SU			04/26/22 11:00	1

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Client Sample ID: MW-U1

Date Collected: 04/26/22 10:30
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-5

Matrix: Water

Method: 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		05/02/22 12:01	05/03/22 02:35	5
Arsenic	**0.0019**		0.0013	0.0012	mg/L		05/02/22 12:01	05/03/22 02:35	5
Barium	**0.0031**		0.0025	0.00070	mg/L		05/02/22 12:01	05/03/22 02:35	5
Beryllium	ND		0.0020	0.00092	mg/L		05/02/22 12:01	05/03/22 02:35	5
Boron	**0.0067**	**J**	0.050	0.0012	mg/L		05/02/22 12:01	05/03/22 02:35	5
Cadmium	ND		0.0010	0.00065	mg/L		05/02/22 12:01	05/03/22 20:44	5
Calcium	**34**	**B**	0.25	0.13	mg/L		05/02/22 12:01	05/03/22 20:44	5
Chromium	**0.0026**		0.0025	0.0010	mg/L		05/02/22 12:01	05/03/22 02:35	5
Cobalt	ND		0.0025	0.00056	mg/L		05/02/22 12:01	05/03/22 02:35	5
Lead	ND		0.0013	0.00081	mg/L		05/02/22 12:01	05/03/22 02:35	5
Lithium	ND		0.0025	0.0049	mg/L		05/02/22 12:01	05/03/22 02:35	5
Molybdenum	ND		0.010	0.0013	mg/L		05/02/22 12:01	05/03/22 02:35	5
Selenium	ND		0.0013	0.00082	mg/L		05/02/22 12:01	05/03/22 02:35	5
Thallium	ND		0.00050	0.00046	mg/L		05/02/22 12:01	05/03/22 02:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/03/22 10:38	05/03/22 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**98**		5.0	5.0	mg/L			05/03/22 14:20	1
Chloride	**1.9**	**J**	2.0	1.4	mg/L			05/03/22 00:25	1
Fluoride	**0.070**	**J**	0.10	0.070	mg/L			04/29/22 12:01	1
Sulfate	**4.3**	**J**	5.0	1.4	mg/L			05/03/22 02:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**8.10**				SU			04/26/22 09:30	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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.
F3	Duplicate RPD exceeds the control limit
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

Client Sample ID: DUP-18

Lab Sample ID: 400-219114-1

Date Collected: 04/26/22 00:01

Matrix: Water

Date Received: 04/28/22 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576143	05/03/22 02:02	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	576309	05/03/22 20:12	KIS	TAL PEN
Total/NA	Prep	7470A			576157	05/03/22 10:38	NET	TAL PEN
Total/NA	Analysis	7470A		1	576320	05/03/22 16:59	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	575886	04/29/22 16:51	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	576110	05/03/22 00:25	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	576933	05/09/22 12:55	KB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	576114	05/03/22 02:55	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	576172	04/25/22 23:01	EHS	TAL PEN

Client Sample ID: MW-D2

Lab Sample ID: 400-219114-2

Date Collected: 04/26/22 14:01

Matrix: Water

Date Received: 04/28/22 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576457	05/04/22 15:22	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576143	05/03/22 02:25	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	576309	05/03/22 20:31	KIS	TAL PEN
Total/NA	Prep	7470A			576157	05/03/22 10:38	NET	TAL PEN
Total/NA	Analysis	7470A		1	576320	05/03/22 17:01	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	576207	05/03/22 14:20	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	576110	05/03/22 00:25	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	575844	04/29/22 11:57	KB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	576114	05/03/22 02:55	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	576172	04/26/22 13:01	EHS	TAL PEN

Client Sample ID: MW-D3

Lab Sample ID: 400-219114-3

Date Collected: 04/26/22 15:50

Matrix: Water

Date Received: 04/28/22 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576143	05/03/22 02:29	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	576309	05/03/22 20:35	KIS	TAL PEN
Total/NA	Prep	7470A			576157	05/03/22 10:38	NET	TAL PEN
Total/NA	Analysis	7470A		1	576320	05/03/22 17:03	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	576207	05/03/22 14:20	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	576110	05/03/22 00:25	DN1	TAL PEN

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

Client Sample ID: MW-D3

Date Collected: 04/26/22 15:50
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	575844	04/29/22 11:49	KB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	576114	05/03/22 02:55	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	576172	04/26/22 14:50	EHS	TAL PEN

Client Sample ID: MW-D1

Date Collected: 04/26/22 12:00
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576143	05/03/22 02:32	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576309	05/03/22 20:38	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	576309	05/03/22 20:41	KIS	TAL PEN
Total/NA	Prep	7470A			576157	05/03/22 10:38	NET	TAL PEN
Total/NA	Analysis	7470A		1	576320	05/03/22 17:05	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	576207	05/03/22 14:20	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	576110	05/03/22 00:25	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	575844	04/29/22 11:53	KB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	576114	05/03/22 02:55	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	576172	04/26/22 11:00	EHS	TAL PEN

Client Sample ID: MW-U1

Date Collected: 04/26/22 10:30
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576143	05/03/22 02:35	KIS	TAL PEN
Total Recoverable	Prep	3005A			576023	05/02/22 12:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	576309	05/03/22 20:44	KIS	TAL PEN
Total/NA	Prep	7470A			576157	05/03/22 10:38	NET	TAL PEN
Total/NA	Analysis	7470A		1	576320	05/03/22 17:07	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	576207	05/03/22 14:20	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	576110	05/03/22 00:25	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	575844	04/29/22 12:01	KB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	576114	05/03/22 02:55	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	576172	04/26/22 09:30	EHS	TAL PEN

Laboratory References:

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

Metals

Prep Batch: 576023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total Recoverable	Water	3005A	
400-219114-2	MW-D2	Total Recoverable	Water	3005A	
400-219114-3	MW-D3	Total Recoverable	Water	3005A	
400-219114-4	MW-D1	Total Recoverable	Water	3005A	
400-219114-5	MW-U1	Total Recoverable	Water	3005A	
MB 400-576023/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-576023/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-219114-1 MS	DUP-18	Total Recoverable	Water	3005A	
400-219114-1 MSD	DUP-18	Total Recoverable	Water	3005A	

Analysis Batch: 576143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total Recoverable	Water	6020	576023
400-219114-2	MW-D2	Total Recoverable	Water	6020	576023
400-219114-3	MW-D3	Total Recoverable	Water	6020	576023
400-219114-4	MW-D1	Total Recoverable	Water	6020	576023
400-219114-5	MW-U1	Total Recoverable	Water	6020	576023
MB 400-576023/1-A ^5	Method Blank	Total Recoverable	Water	6020	576023
LCS 400-576023/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	576023
400-219114-1 MS	DUP-18	Total Recoverable	Water	6020	576023
400-219114-1 MSD	DUP-18	Total Recoverable	Water	6020	576023

Prep Batch: 576157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	7470A	
400-219114-2	MW-D2	Total/NA	Water	7470A	
400-219114-3	MW-D3	Total/NA	Water	7470A	
400-219114-4	MW-D1	Total/NA	Water	7470A	
400-219114-5	MW-U1	Total/NA	Water	7470A	
MB 400-576157/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-576157/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-219183-T-6-C MS	Matrix Spike	Total/NA	Water	7470A	
400-219183-T-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 576309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total Recoverable	Water	6020	576023
400-219114-2	MW-D2	Total Recoverable	Water	6020	576023
400-219114-3	MW-D3	Total Recoverable	Water	6020	576023
400-219114-4	MW-D1	Total Recoverable	Water	6020	576023
400-219114-4	MW-D1	Total Recoverable	Water	6020	576023
400-219114-5	MW-U1	Total Recoverable	Water	6020	576023
400-219114-1 MS	DUP-18	Total Recoverable	Water	6020	576023
400-219114-1 MSD	DUP-18	Total Recoverable	Water	6020	576023

Analysis Batch: 576320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	7470A	576157
400-219114-2	MW-D2	Total/NA	Water	7470A	576157
400-219114-3	MW-D3	Total/NA	Water	7470A	576157
400-219114-4	MW-D1	Total/NA	Water	7470A	576157

Metals (Continued)

Analysis Batch: 576320 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-5	MW-U1	Total/NA	Water	7470A	576157
MB 400-576157/14-A	Method Blank	Total/NA	Water	7470A	576157
LCS 400-576157/15-A	Lab Control Sample	Total/NA	Water	7470A	576157
400-219183-T-6-C MS	Matrix Spike	Total/NA	Water	7470A	576157
400-219183-T-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	576157

Analysis Batch: 576457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-2	MW-D2	Total Recoverable	Water	6020	576023

General Chemistry

Analysis Batch: 575844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-2	MW-D2	Total/NA	Water	SM 4500 F C	
400-219114-3	MW-D3	Total/NA	Water	SM 4500 F C	
400-219114-4	MW-D1	Total/NA	Water	SM 4500 F C	
400-219114-5	MW-U1	Total/NA	Water	SM 4500 F C	
MB 400-575844/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-575844/6	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-218894-A-9 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-218894-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 575886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	SM 2540C	
MB 400-575886/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-575886/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-218991-C-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 576110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	SM 4500 Cl- E	
400-219114-2	MW-D2	Total/NA	Water	SM 4500 Cl- E	
400-219114-3	MW-D3	Total/NA	Water	SM 4500 Cl- E	
400-219114-4	MW-D1	Total/NA	Water	SM 4500 Cl- E	
400-219114-5	MW-U1	Total/NA	Water	SM 4500 Cl- E	
MB 400-576110/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-576110/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-576110/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-219148-D-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-219148-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 576114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	SM 4500 SO4 E	
400-219114-2	MW-D2	Total/NA	Water	SM 4500 SO4 E	
400-219114-3	MW-D3	Total/NA	Water	SM 4500 SO4 E	
400-219114-4	MW-D1	Total/NA	Water	SM 4500 SO4 E	
400-219114-5	MW-U1	Total/NA	Water	SM 4500 SO4 E	
MB 400-576114/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 576114 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-576114/6	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-576114/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
180-137057-A-23 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
180-137057-A-23 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 576207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-2	MW-D2	Total/NA	Water	SM 2540C	
400-219114-3	MW-D3	Total/NA	Water	SM 2540C	
400-219114-4	MW-D1	Total/NA	Water	SM 2540C	
400-219114-5	MW-U1	Total/NA	Water	SM 2540C	
MB 400-576207/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-576207/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-219228-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 576933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	SM 4500 F C	
MB 400-576933/1	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-576933/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-218596-K-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-218596-K-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 576172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	Field Sampling	
400-219114-2	MW-D2	Total/NA	Water	Field Sampling	
400-219114-3	MW-D3	Total/NA	Water	Field Sampling	
400-219114-4	MW-D1	Total/NA	Water	Field Sampling	
400-219114-5	MW-U1	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-576023/1-A ^5
Matrix: Water
Analysis Batch: 576143

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0025	0.0015	mg/L		05/02/22 12:01	05/03/22 01:56	5
Arsenic	ND		0.0013	0.0012	mg/L		05/02/22 12:01	05/03/22 01:56	5
Barium	ND		0.0025	0.00070	mg/L		05/02/22 12:01	05/03/22 01:56	5
Beryllium	ND		0.0020	0.00092	mg/L		05/02/22 12:01	05/03/22 01:56	5
Boron	ND		0.050	0.0012	mg/L		05/02/22 12:01	05/03/22 01:56	5
Cadmium	ND		0.0010	0.00065	mg/L		05/02/22 12:01	05/03/22 01:56	5
Calcium	0.280		0.25	0.13	mg/L		05/02/22 12:01	05/03/22 01:56	5
Chromium	ND		0.0025	0.0010	mg/L		05/02/22 12:01	05/03/22 01:56	5
Cobalt	ND		0.0025	0.00056	mg/L		05/02/22 12:01	05/03/22 01:56	5
Lead	ND		0.0013	0.00081	mg/L		05/02/22 12:01	05/03/22 01:56	5
Lithium	ND		0.0025	0.0049	mg/L		05/02/22 12:01	05/03/22 01:56	5
Molybdenum	ND		0.010	0.0013	mg/L		05/02/22 12:01	05/03/22 01:56	5
Selenium	ND		0.0013	0.00082	mg/L		05/02/22 12:01	05/03/22 01:56	5
Thallium	ND		0.00050	0.00046	mg/L		05/02/22 12:01	05/03/22 01:56	5

Lab Sample ID: LCS 400-576023/2-A ^5
Matrix: Water
Analysis Batch: 576143

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0544		mg/L		109	80 - 120
Arsenic	0.0500	0.0524		mg/L		105	80 - 120
Barium	0.0500	0.0526		mg/L		105	80 - 120
Beryllium	0.0500	0.0522		mg/L		104	80 - 120
Boron	0.100	0.0898		mg/L		90	80 - 120
Cadmium	0.0500	0.0537		mg/L		107	80 - 120
Calcium	5.00	5.16		mg/L		103	80 - 120
Chromium	0.0500	0.0519		mg/L		104	80 - 120
Cobalt	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0509		mg/L		102	80 - 120
Lithium	0.0500	0.0492		mg/L		98	80 - 120
Molybdenum	0.0500	0.0498		mg/L		100	80 - 120
Selenium	0.0500	0.0483		mg/L		97	80 - 120
Thallium	0.0100	0.00983		mg/L		98	80 - 120

Lab Sample ID: 400-219114-1 MS
Matrix: Water
Analysis Batch: 576143

Client Sample ID: DUP-18
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.0500	0.0546		mg/L		109	75 - 125
Arsenic	ND		0.0500	0.0505		mg/L		101	75 - 125
Barium	0.014		0.0500	0.0665		mg/L		104	75 - 125
Beryllium	ND		0.0500	0.0530		mg/L		106	75 - 125
Boron	0.14		0.100	0.243		mg/L		107	75 - 125
Cadmium	ND		0.0500	0.0517		mg/L		103	75 - 125
Chromium	ND		0.0500	0.0517		mg/L		103	75 - 125
Cobalt	ND		0.0500	0.0492		mg/L		98	75 - 125
Lead	ND		0.0500	0.0511		mg/L		102	75 - 125

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

Lab Sample ID: 400-219114-1 MS
Matrix: Water
Analysis Batch: 576143

Client Sample ID: DUP-18
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	ND		0.0500	0.0483		mg/L		97	75 - 125
Molybdenum	ND		0.0500	0.0504		mg/L		101	75 - 125
Selenium	ND		0.0500	0.0498		mg/L		100	75 - 125
Thallium	ND		0.0100	0.0103		mg/L		103	75 - 125

Lab Sample ID: 400-219114-1 MS
Matrix: Water
Analysis Batch: 576309

Client Sample ID: DUP-18
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	61	B ^2	5.00	65.8	4	mg/L		101	75 - 125

Lab Sample ID: 400-219114-1 MSD
Matrix: Water
Analysis Batch: 576143

Client Sample ID: DUP-18
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		0.0500	0.0546		mg/L		109	75 - 125	0	20
Arsenic	ND		0.0500	0.0500		mg/L		100	75 - 125	1	20
Barium	0.014		0.0500	0.0680		mg/L		107	75 - 125	2	20
Beryllium	ND		0.0500	0.0526		mg/L		105	75 - 125	1	20
Boron	0.14		0.100	0.237		mg/L		101	75 - 125	2	20
Cadmium	ND		0.0500	0.0512		mg/L		102	75 - 125	1	20
Chromium	ND		0.0500	0.0526		mg/L		105	75 - 125	2	20
Cobalt	ND		0.0500	0.0491		mg/L		98	75 - 125	0	20
Lead	ND		0.0500	0.0503		mg/L		101	75 - 125	2	20
Lithium	ND		0.0500	0.0477		mg/L		95	75 - 125	1	20
Molybdenum	ND		0.0500	0.0516		mg/L		103	75 - 125	2	20
Selenium	ND		0.0500	0.0496		mg/L		99	75 - 125	1	20
Thallium	ND		0.0100	0.00998		mg/L		100	75 - 125	3	20

Lab Sample ID: 400-219114-1 MSD
Matrix: Water
Analysis Batch: 576309

Client Sample ID: DUP-18
Prep Type: Total Recoverable
Prep Batch: 576023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	61	B ^2	5.00	61.4	4	mg/L		13	75 - 125	7	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-576157/14-A
Matrix: Water
Analysis Batch: 576320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00015	mg/L		05/03/22 10:38	05/03/22 16:26	1

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

Lab Sample ID: LCS 400-576157/15-A
Matrix: Water
Analysis Batch: 576320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576157

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00101	0.00110		mg/L		109	80 - 120		

Lab Sample ID: 400-219183-T-6-C MS
Matrix: Water
Analysis Batch: 576320

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 576157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00201	0.00191		mg/L		95	80 - 120		

Lab Sample ID: 400-219183-T-6-D MSD
Matrix: Water
Analysis Batch: 576320

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 576157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00201	0.00191		mg/L		95	80 - 120	0	20

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

Lab Sample ID: MB 400-575886/1
Matrix: Water
Analysis Batch: 575886

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		5.0	5.0	mg/L			04/29/22 16:51	1

Lab Sample ID: LCS 400-575886/2
Matrix: Water
Analysis Batch: 575886

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	296		mg/L		101	78 - 122		

Lab Sample ID: 400-218991-C-1 DU
Matrix: Water
Analysis Batch: 575886

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	1500			1410	F3	mg/L				8	5

Lab Sample ID: MB 400-576207/1
Matrix: Water
Analysis Batch: 576207

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			05/03/22 14:20	1

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

Lab Sample ID: LCS 400-576207/2
Matrix: Water
Analysis Batch: 576207

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	252		mg/L		86	78 - 122		

Lab Sample ID: 400-219228-A-2 DU
Matrix: Water
Analysis Batch: 576207

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	1400			500	F3	mg/L				95	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-576110/6
Matrix: Water
Analysis Batch: 576110

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			05/03/22 00:23	1

Lab Sample ID: LCS 400-576110/7
Matrix: Water
Analysis Batch: 576110

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.4		mg/L		101	90 - 110		

Lab Sample ID: MRL 400-576110/3
Matrix: Water
Analysis Batch: 576110

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	1.53	J	mg/L		76	50 - 150		

Lab Sample ID: 400-219148-D-2 MS
Matrix: Water
Analysis Batch: 576110

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	2.2		10.0	13.4		mg/L		112	73 - 120		

Lab Sample ID: 400-219148-D-2 MSD
Matrix: Water
Analysis Batch: 576110

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	2.2		10.0	13.4		mg/L		112	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-575844/3
Matrix: Water
Analysis Batch: 575844

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			04/29/22 11:22	1

Lab Sample ID: LCS 400-575844/6
Matrix: Water
Analysis Batch: 575844

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	5.08		mg/L		102	90 - 110

Lab Sample ID: 400-218894-A-9 MS
Matrix: Water
Analysis Batch: 575844

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	0.47		1.00	1.30		mg/L		83	75 - 125

Lab Sample ID: 400-218894-A-9 MSD
Matrix: Water
Analysis Batch: 575844

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	0.47		1.00	1.30		mg/L		83	75 - 125	0	4

Lab Sample ID: MB 400-576933/1
Matrix: Water
Analysis Batch: 576933

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			05/09/22 12:55	1

Lab Sample ID: LCS 400-576933/4
Matrix: Water
Analysis Batch: 576933

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	5.23		mg/L		105	90 - 110

Lab Sample ID: 400-218596-K-1 MS
Matrix: Water
Analysis Batch: 576933

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	0.84		1.00	1.72		mg/L		88	75 - 125

Lab Sample ID: 400-218596-K-1 MSD
Matrix: Water
Analysis Batch: 576933

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	0.84		1.00	1.75		mg/L		92	75 - 125	2	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-576114/5
Matrix: Water
Analysis Batch: 576114

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			05/03/22 02:55	1

Lab Sample ID: LCS 400-576114/6
Matrix: Water
Analysis Batch: 576114

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	15.1		mg/L		101	90 - 110		

Lab Sample ID: MRL 400-576114/7
Matrix: Water
Analysis Batch: 576114

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	3.66	J	mg/L		73	50 - 150		

Lab Sample ID: 180-137057-A-23 MS
Matrix: Water
Analysis Batch: 576114

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	2800		250	2360	4	mg/L		-184	77 - 128		

Lab Sample ID: 180-137057-A-23 MSD
Matrix: Water
Analysis Batch: 576114

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2800		250	2350	4	mg/L		-186	77 - 128	0	5

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-110409-29334.1
Client Contact: Dawit Yifru	Phone: 678-718-4739	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
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: CCPC, Warwick GA	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

400-219114 COC

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	Special Instructions/Note:
				Preservation Code:			O	N	D	D	N	N	N	N		
DUP-18	4/26/22		G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 6.80
MW-D2	4/26/22	2:01	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 6.86
MW-D3	4/26/22	3:50	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 7.32
MW-D1	4/26/22	12:00	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 6.73
MW-U1	4/26/22	10:30	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 8.10
				Water												

last item

Possible Hazard Identification

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: Tristan Orndorff	Date/Time: 4/27/2022 11:30	Company: Geosyntec	Received by: Fedex	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.28.22 09:07	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9.8°C 11.9°C IR10

Ver: 06/08/2021

5/12/2022

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-110409-29334.1
Client Contact: Dawit Yifru	Phone: 678-718-4739	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
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: CCPC, Warwick GA	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	Special Instructions/Note:
DUP-18	4/26/22		G	Water	N	N	Ø	1	1	1	1	1	1			pH = 6.80
MW-D2	4/26/22	2:01	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 6.86
MW-D3	4/26/22	3:50	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 7.32
MW-D1	4/26/22	12:00	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 6.73
MW-U1	4/26/22	10:30	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 8.10
				~~Water~~												
			Last	item												

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Tristan Orndorff	4/27/2022 11:30	Geosyntec	Fedex		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.28.22 09:07	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9.8°C 11.9°C IR10

Ver: 06/08/2021

5/12/2022

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-219114-1
SDG Number: CCPC, Warwick GA

Login Number: 219114
List Number: 1
Creator: Roberts, Alexis J

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	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Client notified
Cooler Temperature is recorded.	True	9.8°C, 11.9°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	No time on COC or sample containers for Dup-18
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 CCR

Job ID: 400-219114-1
SDG: CCPC, Warwick GA

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	05-31-22

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-219114-2
Laboratory Sample Delivery Group: CCPC, Warwick GA
Client Project/Site: Crisp County CCR RADS

For:
Geosyntec Consultants, Inc.
1255 Roberts Blvd, NW
Suite 200
Kennesaw, Georgia 30144

Attn: Dawit Yifru

Cheyenne Whitmire

Authorized for release by:
5/27/2022 4:31:38 PM

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

Table of Contents

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Job ID: 400-219114-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-219114-2

Receipt
The samples were received on 4/28/2022 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 9.8º C and 11.9º C.

RAD
Method 9315: Radium 226 Batch 160-563228. 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. DUP-18 (400-219114-1), MW-D2 (400-219114-2), MW-D3 (400-219114-3), MW-D1 (400-219114-4), MW-U1 (400-219114-5), (LCS 160-563228/1-A), (MB 160-563228/24-A), (240-165647-L-3-A), (240-165647-A-3-A MS) and (240-165647-A-3-B MSD)

Method 9320: Radium-228 prep batch 160-563242. The LCS recovered at 127%. 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 61-138% per method requirements. The LCS passes, no further action is required. (LCS 160-563242/1-A)

Method 9320: Radium-228 prep batch 160-0563242. 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. DUP-18 (400-219114-1), MW-D2 (400-219114-2), MW-D3 (400-219114-3), MW-D1 (400-219114-4), MW-U1 (400-219114-5), (LCS 160-563242/1-A), (MB 160-563242/24-A), (240-165647-L-3-B), (240-165647-A-3-C MS) and (240-165647-A-3-D MSD)

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

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

TAL 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 CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-219114-1	DUP-18	Water	04/26/22 00:01	04/28/22 09:07
400-219114-2	MW-D2	Water	04/26/22 14:01	04/28/22 09:07
400-219114-3	MW-D3	Water	04/26/22 15:50	04/28/22 09:07
400-219114-4	MW-D1	Water	04/26/22 12:00	04/28/22 09:07
400-219114-5	MW-U1	Water	04/26/22 10:30	04/28/22 09:07

Client Sample ID: DUP-18

Date Collected: 04/26/22 00:01
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0258	U	0.0958	0.0959	1.00	0.183	pCi/L	05/02/22 10:13	05/25/22 21:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*05/02/22 10:13*	*05/25/22 21:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.331	U	0.315	0.316	1.00	0.503	pCi/L	05/02/22 10:51	05/23/22 13:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:01*	*1*
Y Carrier	*83.0*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:01*	*1*

Method: 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	0.357	U	0.329	0.330	5.00	0.503	pCi/L		05/26/22 22:23	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Client Sample ID: MW-D2

Date Collected: 04/26/22 14:01
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0842	U	0.112	0.112	1.00	0.187	pCi/L	05/02/22 10:13	05/25/22 21:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*40 - 110*	*05/02/22 10:13*	*05/25/22 21:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.699**		0.404	0.409	1.00	0.591	pCi/L	05/02/22 10:51	05/23/22 13:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:01*	*1*
Y Carrier	*82.6*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:01*	*1*

Method: 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	**0.783**		0.419	0.424	5.00	0.591	pCi/L		05/26/22 22:23	1

Client Sample ID: MW-D3

Date Collected: 04/26/22 15:50
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00126	U	0.0876	0.0876	1.00	0.182	pCi/L	05/02/22 10:13	05/25/22 21:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*05/02/22 10:13*	*05/25/22 21:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.375	U	0.333	0.335	1.00	0.528	pCi/L	05/02/22 10:51	05/23/22 13:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:02*	*1*
Y Carrier	*84.1*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:02*	*1*

Method: 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	0.374	U	0.344	0.346	5.00	0.528	pCi/L		05/26/22 22:23	1

Client Sample ID: MW-D1

Date Collected: 04/26/22 12:00
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0166	U	0.0865	0.0866	1.00	0.175	pCi/L	05/02/22 10:13	05/25/22 21:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.8*		*40 - 110*	*05/02/22 10:13*	*05/25/22 21:44*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.297	U	0.329	0.330	1.00	0.537	pCi/L	05/02/22 10:51	05/23/22 13:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.8*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:02*	*1*
Y Carrier	*84.5*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:02*	*1*

Method: 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	0.314	U	0.340	0.341	5.00	0.537	pCi/L		05/26/22 22:23	1

Client Sample ID: MW-U1

Date Collected: 04/26/22 10:30
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166	U	0.144	0.145	1.00	0.211	pCi/L	05/02/22 10:13	05/25/22 21:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*05/02/22 10:13*	*05/25/22 21:44*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0724	U	0.395	0.395	1.00	0.716	pCi/L	05/02/22 10:51	05/23/22 13:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:02*	*1*
Y Carrier	*84.5*		*40 - 110*	*05/02/22 10:51*	*05/23/22 13:02*	*1*

Method: 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	0.239	U	0.420	0.421	5.00	0.716	pCi/L		05/26/22 22:23	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Client Sample ID: DUP-18
Date Collected: 04/26/22 00:01
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			563228	05/02/22 10:13	MS	TAL SL
Total/NA	Analysis	9315		1	567255	05/25/22 21:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			563242	05/02/22 10:51	MS	TAL SL
Total/NA	Analysis	9320		1	566897	05/23/22 13:01	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	567530	05/26/22 22:23	EMH	TAL SL

Client Sample ID: MW-D2
Date Collected: 04/26/22 14:01
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			563228	05/02/22 10:13	MS	TAL SL
Total/NA	Analysis	9315		1	567255	05/25/22 21:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			563242	05/02/22 10:51	MS	TAL SL
Total/NA	Analysis	9320		1	566897	05/23/22 13:01	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	567530	05/26/22 22:23	EMH	TAL SL

Client Sample ID: MW-D3
Date Collected: 04/26/22 15:50
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			563228	05/02/22 10:13	MS	TAL SL
Total/NA	Analysis	9315		1	567255	05/25/22 21:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			563242	05/02/22 10:51	MS	TAL SL
Total/NA	Analysis	9320		1	566897	05/23/22 13:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	567530	05/26/22 22:23	EMH	TAL SL

Client Sample ID: MW-D1
Date Collected: 04/26/22 12:00
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			563228	05/02/22 10:13	MS	TAL SL
Total/NA	Analysis	9315		1	567255	05/25/22 21:44	SCB	TAL SL
Total/NA	Prep	PrecSep_0			563242	05/02/22 10:51	MS	TAL SL
Total/NA	Analysis	9320		1	566897	05/23/22 13:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	567530	05/26/22 22:23	EMH	TAL SL

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Client Sample ID: MW-U1

Date Collected: 04/26/22 10:30
Date Received: 04/28/22 09:07

Lab Sample ID: 400-219114-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			563228	05/02/22 10:13	MS	TAL SL
Total/NA	Analysis	9315		1	567255	05/25/22 21:44	SCB	TAL SL
Total/NA	Prep	PrecSep_0			563242	05/02/22 10:51	MS	TAL SL
Total/NA	Analysis	9320		1	566897	05/23/22 13:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	567530	05/26/22 22:23	EMH	TAL SL

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Crisp County CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

Rad

Prep Batch: 563228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	PrecSep-21	
400-219114-2	MW-D2	Total/NA	Water	PrecSep-21	
400-219114-3	MW-D3	Total/NA	Water	PrecSep-21	
400-219114-4	MW-D1	Total/NA	Water	PrecSep-21	
400-219114-5	MW-U1	Total/NA	Water	PrecSep-21	
MB 160-563228/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-563228/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-165647-A-3-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
240-165647-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 563242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-219114-1	DUP-18	Total/NA	Water	PrecSep_0	
400-219114-2	MW-D2	Total/NA	Water	PrecSep_0	
400-219114-3	MW-D3	Total/NA	Water	PrecSep_0	
400-219114-4	MW-D1	Total/NA	Water	PrecSep_0	
400-219114-5	MW-U1	Total/NA	Water	PrecSep_0	
MB 160-563242/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-563242/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-165647-A-3-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	
240-165647-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-563228/24-A
Matrix: Water
Analysis Batch: 567416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563228

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.05280	U	0.0612	0.0614	1.00	0.169	pCi/L	05/02/22 10:13	05/26/22 07:37	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.5*		*40 - 110*	*05/02/22 10:13*	*05/26/22 07:37*	*1*

Lab Sample ID: LCS 160-563228/1-A
Matrix: Water
Analysis Batch: 567255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563228

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.945		1.16	1.00	0.168	pCi/L	88	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*81.5*		*40 - 110*

Lab Sample ID: 240-165647-A-3-A MS
Matrix: Water
Analysis Batch: 567416

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 563228

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.249		11.4	9.859		1.13	1.00	0.152	pCi/L	84	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*86.0*		*40 - 110*

Lab Sample ID: 240-165647-A-3-B MSD
Matrix: Water
Analysis Batch: 567416

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 563228

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.249		11.3	10.47		1.20	1.00	0.196	pCi/L	91	60 - 140	0.26	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*77.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-563242/24-A
Matrix: Water
Analysis Batch: 566898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563242

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5973		0.325	0.330	1.00	0.457	pCi/L	05/02/22 10:51	05/23/22 13:06	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110	05/02/22 10:51	05/23/22 13:06	1
Y Carrier	91.6		40 - 110	05/02/22 10:51	05/23/22 13:06	1

Lab Sample ID: LCS 160-563242/1-A
Matrix: Water
Analysis Batch: 566897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563242

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.60	10.93		1.43	1.00	0.560	pCi/L	127	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	81.5		40 - 110
Y Carrier	84.5		40 - 110

Lab Sample ID: 240-165647-A-3-C MS
Matrix: Water
Analysis Batch: 566897

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 563242

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.552		8.64	10.40		1.37	1.00	0.510	pCi/L	114	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	86.0		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: 240-165647-A-3-D MSD
Matrix: Water
Analysis Batch: 566897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 563242

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.552		8.56	11.84		1.54	1.00	0.595	pCi/L	132	60 - 140	0.49	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	77.1		40 - 110
Y Carrier	86.7		40 - 110

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-110409-29334.1
Client Contact: Dawit Yifru	Phone: 678-718-4739	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
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: CCPC, Warwick GA	SSOW#:			

Analysis Requested

400-219114 COC

Preservation Codes:

A - HCl; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

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	Special Instructions/Note:
				Preservation Code:			O	N	D	D	N	N	N	N		
DUP-18	4/26/22		G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 6.80
MW-D2	4/26/22	2:01	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 6.86
MW-D3	4/26/22	3:50	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 7.32
MW-D1	4/26/22	12:00	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 6.73
MW-U1	4/26/22	10:30	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			pH = 8.10
				Water												

last item

Possible Hazard Identification

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Tristan Orndorff	4/27/2022 11:30	Geosyntec	Fedex		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.28.22 09:07	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9.8°C 11.9°C IR10

Ver: 06/08/2021

5/27/2022

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tristan Orndorff	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-110409-29334.1
Client Contact: Dawit Yifru	Phone: 678-718-4739	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
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: CCPC, Warwick GA	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	Special Instructions/Note:
DUP-18	4/26/22		G	Water	N	N	Ø	1	1	1	1	1	1			pH = 6.80
MW-D2	4/26/22	2:01	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 6.86
MW-D3	4/26/22	3:50	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 7.32
MW-D1	4/26/22	12:00	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 6.73
MW-U1	4/26/22	10:30	G	Water	N	N	Ø	1	1	1	1	1	1			pH = 8.10
				~~Water~~												
			Last	item												

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Tristan Orndorff	4/27/2022 11:30	Geosyntec	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.28.22 09:07	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 9.8°C 11.9°C IR10

Ver: 06/08/2021

5/27/2022

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-219114-2
SDG Number: CCPC, Warwick GA

Login Number: 219114
List Number: 1
Creator: Roberts, Alexis J

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	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	9.8°C, 11.9°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	No time on COC or sample containers for Dup-18
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 CCR RADS

Job ID: 400-219114-2
SDG: CCPC, Warwick GA

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	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

October 2022

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227701-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

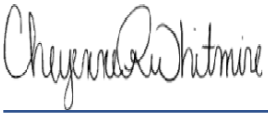
See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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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Revision 1

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

Table of Contents

Job ID: 400-227701-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227701-1

Metals

Method 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-19-20221020 (400-227701-1), MW-D1-20221020 (400-227701-2), MW-U1-20221019 (400-227701-3), MW-D2-20221020 (400-227701-4) and MW-D3-20221020 (400-227701-5). Elevated reporting limits (RLs) are provided.

Method 6020: The initial calibration verification (ICV) result for batch 400-599960 was above the upper control limit for Arsenic and Cadmium. The method blank results were non-detects, and have been reported as qualified data.

Method 6020: The method blank for preparation batch 400-599395 and analytical batch 400-599960 contained Calcium 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 method blank for preparation batch 400-599395 and analytical batch 400-599995 contained Chromium 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 initial calibration verification (ICV) result for batch 400-599960 was above the upper control limit for Arsenic. The laboratory control spike results were within the acceptable limits, and have been reported as qualified data.

General Chemistry

Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-597861 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: DUP-19-20221020 — Lab Sample ID: 400-227701-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.021		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Boron	0.10		0.10	0.0024	mg/L	10		6020	Total Recoverable
Calcium	64		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	260		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.15		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	32		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	N/A				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D1-20221020 — Lab Sample ID: 400-227701-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.018		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Boron	0.092	J	0.10	0.0024	mg/L	10		6020	Total Recoverable
Calcium	65		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	230		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.18		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	31		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.19				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U1-20221019 — Lab Sample ID: 400-227701-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0024	J	0.0050	0.0014	mg/L	10		6020	Total Recoverable
Calcium	31		0.50	0.25	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Fluoride	0.13		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.98				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D2-20221020 — Lab Sample ID: 400-227701-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Boron	0.095	J	0.10	0.0024	mg/L	10		6020	Total Recoverable
Calcium	110		0.50	0.25	mg/L	10		6020	Total Recoverable
Chromium	0.0026	J ^2 B	0.0050	0.0020	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	470		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.5		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.088	J	0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	18		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: MW-D3-20221020 — Lab Sample ID: 400-227701-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.069		0.0050	0.0014	mg/L	10		6020	Total Recoverable
Boron	0.15		0.10	0.0024	mg/L	10		6020	Total Recoverable
Calcium	84		0.50	0.25	mg/L	10		6020	Total Recoverable
Chromium	0.0037	J ^2 B	0.0050	0.0020	mg/L	10		6020	Total Recoverable
Molybdenum	0.0032	J	0.020	0.0026	mg/L	10		6020	Total Recoverable
Total Dissolved Solids	320		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	2.8		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10	0.070	mg/L	1		SM 4500 F C	Total/NA
Sulfate	33		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.23				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	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

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: CCR Crisp County Power

Job ID: 400-227701-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227701-1	DUP-19-20221020	Water	10/20/22 12:00	10/22/22 08:55
400-227701-2	MW-D1-20221020	Water	10/20/22 12:00	10/22/22 08:55
400-227701-3	MW-U1-20221019	Water	10/19/22 12:35	10/22/22 08:55
400-227701-4	MW-D2-20221020	Water	10/20/22 13:36	10/22/22 08:55
400-227701-5	MW-D3-20221020	Water	10/20/22 10:05	10/22/22 08:55

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: DUP-19-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 14:48	10
Barium	**0.021**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 00:40	10
Boron	**0.10**		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 00:40	10
Calcium	**64**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 14:48	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 14:48	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 00:40	10

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			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**2.5**		2.0	1.4	mg/L			11/01/22 04:05	1
Fluoride (SM 4500 F C)	**0.15**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**32**		5.0	1.4	mg/L			11/01/22 00:56	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**N/A**				SU			10/20/22 11:00	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: MW-D1-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 14:51	10
Barium	**0.018**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 00:43	10
Boron	**0.092**	**J**	0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 00:43	10
Calcium	**65**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 14:51	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 14:51	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 00:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**230**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	**2.5**		2.0	1.4	mg/L			11/01/22 04:13	1
Fluoride (SM 4500 F C)	**0.18**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**31**		5.0	1.4	mg/L			11/01/22 00:56	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.19**				SU			10/20/22 11:00	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: MW-U1-20221019

Date Collected: 10/19/22 12:35
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 15:03	10
Barium	**0.0024**	**J**	0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 00:46	10
Boron	ND		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 00:46	10
Calcium	**31**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 15:03	10
Chromium	ND		0.0050	0.0020	mg/L		11/05/22 13:34	11/10/22 15:03	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 00:46	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**130**		5.0	5.0	mg/L			10/24/22 13:40	1
Chloride (SM 4500 Cl- E)	ND		2.0	1.4	mg/L			11/01/22 04:01	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**2.4**	**J**	5.0	1.4	mg/L			11/01/22 00:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.98**				SU			10/19/22 11:35	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: MW-D2-20221020

Date Collected: 10/20/22 13:36
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 15:06	10
Barium	**0.15**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 01:00	10
Boron	**0.095**	**J**	0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 01:00	10
Calcium	**110**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 15:06	10
Chromium	**0.0026**	**J ^2 B**	0.0050	0.0020	mg/L		11/05/22 13:34	10/20/22 01:00	10
Molybdenum	ND		0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 01:00	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**470**		5.0	5.0	mg/L			10/24/22 13:49	1
Chloride (SM 4500 Cl- E)	**3.5**		2.0	1.4	mg/L			11/01/22 04:13	1
Fluoride (SM 4500 F C)	**0.088**	**J**	0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**18**		5.0	1.4	mg/L			11/01/22 00:57	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.75**				SU			10/20/22 12:36	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: MW-D3-20221020

Date Collected: 10/20/22 10:05
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0025	0.0024	mg/L		11/05/22 13:34	11/10/22 15:09	10
Barium	**0.069**		0.0050	0.0014	mg/L		11/05/22 13:34	10/20/22 01:03	10
Boron	**0.15**		0.10	0.0024	mg/L		11/05/22 13:34	10/20/22 01:03	10
Calcium	**84**		0.50	0.25	mg/L		11/05/22 13:34	11/10/22 15:09	10
Chromium	**0.0037**	**J ^2 B**	0.0050	0.0020	mg/L		11/05/22 13:34	10/20/22 01:03	10
Molybdenum	**0.0032**	**J**	0.020	0.0026	mg/L		11/05/22 13:34	10/20/22 01:03	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**320**		5.0	5.0	mg/L			10/24/22 13:49	1
Chloride (SM 4500 Cl- E)	**2.8**		2.0	1.4	mg/L			11/01/22 04:15	1
Fluoride (SM 4500 F C)	**0.19**		0.10	0.070	mg/L			10/26/22 09:00	1
Sulfate (SM 4500 SO4 E)	**33**		5.0	1.4	mg/L			11/01/22 00:57	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.23**				SU			10/20/22 09:05	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
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: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: DUP-19-20221020

Lab Sample ID: 400-227701-1

Date Collected: 10/20/22 12:00

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:48
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:40
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:05
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:56
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/20/22 11:00

Client Sample ID: MW-D1-20221020

Lab Sample ID: 400-227701-2

Date Collected: 10/20/22 12:00

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 14:51
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:43
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:13
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:56
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/20/22 11:00

Client Sample ID: MW-U1-20221019

Lab Sample ID: 400-227701-3

Date Collected: 10/19/22 12:35

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 15:03
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 00:46
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Analysis	SM 2540C		1	597572	VB	EET PEN	10/24/22 13:40
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:01
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:53
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/19/22 11:35

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Client Sample ID: MW-D2-20221020

Lab Sample ID: 400-227701-4

Date Collected: 10/20/22 13:36

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 15:06
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 01:00
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Analysis	SM 2540C		1	597586	VB	EET PEN	10/24/22 13:49
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:13
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:57
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/20/22 12:36

Client Sample ID: MW-D3-20221020

Lab Sample ID: 400-227701-5

Date Collected: 10/20/22 10:05

Matrix: Water

Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total Recoverable	Analysis	6020		10	600516	NTH	EET PEN	11/10/22 15:09
Total Recoverable	Analysis	6020		10	599995	NTH	EET PEN	10/20/22 01:03
Total Recoverable	Prep	3005A			599395	JL	EET PEN	11/05/22 13:34 - 11/05/22 17:03 [1]
Total/NA	Analysis	SM 2540C		1	597586	VB	EET PEN	10/24/22 13:49
Total/NA	Analysis	SM 4500 Cl- E		1	598649	DN1	EET PEN	11/01/22 04:15
Total/NA	Analysis	SM 4500 F C		1	597861	JP	EET PEN	10/26/22 09:00
Total/NA	Analysis	SM 4500 SO4 E		1	598644	DN1	EET PEN	11/01/22 00:57
Total/NA	Analysis	Field Sampling		1	597670	PP1	EET PEN	10/20/22 09:05

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Metals

Prep Batch: 599395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total Recoverable	Water	3005A	
400-227701-2	MW-D1-20221020	Total Recoverable	Water	3005A	
400-227701-3	MW-U1-20221019	Total Recoverable	Water	3005A	
400-227701-4	MW-D2-20221020	Total Recoverable	Water	3005A	
400-227701-5	MW-D3-20221020	Total Recoverable	Water	3005A	
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-227774-G-4-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-227774-G-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 599960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	6020	599395
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	599395
400-227774-G-4-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	599395
400-227774-G-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	599395

Analysis Batch: 599995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total Recoverable	Water	6020	599395
400-227701-2	MW-D1-20221020	Total Recoverable	Water	6020	599395
400-227701-3	MW-U1-20221019	Total Recoverable	Water	6020	599395
400-227701-4	MW-D2-20221020	Total Recoverable	Water	6020	599395
400-227701-5	MW-D3-20221020	Total Recoverable	Water	6020	599395
MB 400-599395/1-A ^5	Method Blank	Total Recoverable	Water	6020	599395
LCS 400-599395/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	599395

Analysis Batch: 600516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total Recoverable	Water	6020	599395
400-227701-2	MW-D1-20221020	Total Recoverable	Water	6020	599395
400-227701-3	MW-U1-20221019	Total Recoverable	Water	6020	599395
400-227701-4	MW-D2-20221020	Total Recoverable	Water	6020	599395
400-227701-5	MW-D3-20221020	Total Recoverable	Water	6020	599395

General Chemistry

Analysis Batch: 597572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	SM 2540C	
400-227701-2	MW-D1-20221020	Total/NA	Water	SM 2540C	
400-227701-3	MW-U1-20221019	Total/NA	Water	SM 2540C	
MB 400-597572/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-597572/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-227511-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 597586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-4	MW-D2-20221020	Total/NA	Water	SM 2540C	
400-227701-5	MW-D3-20221020	Total/NA	Water	SM 2540C	
MB 400-597586/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 597586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-597586/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-227701-4 DU	MW-D2-20221020	Total/NA	Water	SM 2540C	

Analysis Batch: 597861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	SM 4500 F C	
400-227701-2	MW-D1-20221020	Total/NA	Water	SM 4500 F C	
400-227701-3	MW-U1-20221019	Total/NA	Water	SM 4500 F C	
400-227701-4	MW-D2-20221020	Total/NA	Water	SM 4500 F C	
400-227701-5	MW-D3-20221020	Total/NA	Water	SM 4500 F C	
MB 400-597861/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-597861/5	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-597861/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-227702-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-227702-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-227700-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 598644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227701-2	MW-D1-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227701-3	MW-U1-20221019	Total/NA	Water	SM 4500 SO4 E	
400-227701-4	MW-D2-20221020	Total/NA	Water	SM 4500 SO4 E	
400-227701-5	MW-D3-20221020	Total/NA	Water	SM 4500 SO4 E	
MB 400-598644/12	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-598644/13	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-598644/14	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-227701-3 MS	MW-U1-20221019	Total/NA	Water	SM 4500 SO4 E	
400-227701-3 MSD	MW-U1-20221019	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 598649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227701-2	MW-D1-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227701-3	MW-U1-20221019	Total/NA	Water	SM 4500 Cl- E	
400-227701-4	MW-D2-20221020	Total/NA	Water	SM 4500 Cl- E	
400-227701-5	MW-D3-20221020	Total/NA	Water	SM 4500 Cl- E	
MB 400-598649/13	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-598649/42	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-598649/14	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 400-598649/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-598649/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-227902-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-228001-N-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-228001-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-1

Field Service / Mobile Lab

Analysis Batch: 597670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	Field Sampling	
400-227701-2	MW-D1-20221020	Total/NA	Water	Field Sampling	
400-227701-3	MW-U1-20221019	Total/NA	Water	Field Sampling	
400-227701-4	MW-D2-20221020	Total/NA	Water	Field Sampling	
400-227701-5	MW-D3-20221020	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-599395/1-A ^5
Matrix: Water
Analysis Batch: 599995

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0025	0.00070	mg/L		11/05/22 13:34	10/20/22 00:19	5
Boron	ND		0.050	0.0012	mg/L		11/05/22 13:34	10/20/22 00:19	5
Chromium	0.00135	J	0.0025	0.0010	mg/L		11/05/22 13:34	10/20/22 00:19	5
Molybdenum	ND		0.010	0.0013	mg/L		11/05/22 13:34	10/20/22 00:19	5

Lab Sample ID: MB 400-599395/1-A ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^1+	0.0013	0.0012	mg/L		11/05/22 13:34	11/09/22 11:16	5
Calcium	0.198	J	0.25	0.13	mg/L		11/05/22 13:34	11/09/22 11:16	5

Lab Sample ID: LCS 400-599395/2-A ^5
Matrix: Water
Analysis Batch: 599995

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.0500	0.0531		mg/L		106	80 - 120
Boron	0.100	0.0873		mg/L		87	80 - 120
Chromium	0.0500	0.0524		mg/L		105	80 - 120
Molybdenum	0.0500	0.0542		mg/L		108	80 - 120

Lab Sample ID: LCS 400-599395/2-A ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.0588	^1+	mg/L		118	80 - 120
Calcium	5.00	5.21		mg/L		104	80 - 120

Lab Sample ID: 400-227774-G-4-B MS ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.11	B	0.100	0.198		mg/L		91	75 - 125
Calcium	45	B	5.00	48.7	4	mg/L		80	75 - 125

Lab Sample ID: 400-227774-G-4-C MSD ^5
Matrix: Water
Analysis Batch: 599960

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 599395

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.11	B	0.100	0.198		mg/L		92	75 - 125	0	20
Calcium	45	B	5.00	48.2	4	mg/L		69	75 - 125	1	20

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

Lab Sample ID: MB 400-597572/1
Matrix: Water
Analysis Batch: 597572

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			10/24/22 13:40	1

Lab Sample ID: LCS 400-597572/2
Matrix: Water
Analysis Batch: 597572

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	264		mg/L		90	78 - 122

Lab Sample ID: 400-227511-B-1 DU
Matrix: Water
Analysis Batch: 597572

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	1600		1670		mg/L		4	5

Lab Sample ID: MB 400-597586/1
Matrix: Water
Analysis Batch: 597586

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			10/24/22 13:49	1

Lab Sample ID: LCS 400-597586/2
Matrix: Water
Analysis Batch: 597586

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	304		mg/L		104	78 - 122

Lab Sample ID: 400-227701-4 DU
Matrix: Water
Analysis Batch: 597586

Client Sample ID: MW-D2-20221020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		428	F3	mg/L		10	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-598649/13
Matrix: Water
Analysis Batch: 598649

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			11/01/22 03:51	1

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

Lab Sample ID: MB 400-598649/42
Matrix: Water
Analysis Batch: 598649

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	1.4	mg/L			11/01/22 04:06	1

Lab Sample ID: LCS 400-598649/14
Matrix: Water
Analysis Batch: 598649

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	48.1		mg/L		96	90 - 110		

Lab Sample ID: LCS 400-598649/43
Matrix: Water
Analysis Batch: 598649

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	47.1		mg/L		94	90 - 110		

Lab Sample ID: MRL 400-598649/15
Matrix: Water
Analysis Batch: 598649

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	1.45	J	mg/L		73	50 - 150		

Lab Sample ID: 400-227902-M-1 MS
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.1	4	mg/L		86	73 - 120		

Lab Sample ID: 400-227902-M-1 MSD
Matrix: Water
Analysis Batch: 598649

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	67		10.0	76.6	4	mg/L		91	73 - 120	1	8

Lab Sample ID: 400-228001-N-2 MS
Matrix: Water
Analysis Batch: 598649

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	27		10.0	36.2		mg/L		94	73 - 120		

Lab Sample ID: 400-228001-N-2 MSD
Matrix: Water
Analysis Batch: 598649

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	27		10.0	36.7		mg/L		100	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-597861/2
Matrix: Water
Analysis Batch: 597861

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			10/26/22 09:00	1

Lab Sample ID: LCS 400-597861/5
Matrix: Water
Analysis Batch: 597861

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	5.12		mg/L		102	90 - 110		

Lab Sample ID: MRL 400-597861/4
Matrix: Water
Analysis Batch: 597861

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	0.130		mg/L		130			

Lab Sample ID: 400-227702-B-3 MS
Matrix: Water
Analysis Batch: 597861

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	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125		

Lab Sample ID: 400-227702-B-3 MSD
Matrix: Water
Analysis Batch: 597861

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	0.073	J F1	0.200	0.164	F1	mg/L		46	75 - 125	0	4

Lab Sample ID: 400-227700-B-1 DU
Matrix: Water
Analysis Batch: 597861

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Fluoride	0.21			0.215		mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-598644/12
Matrix: Water
Analysis Batch: 598644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.4	mg/L			11/01/22 00:51	1

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

Lab Sample ID: LCS 400-598644/13
Matrix: Water
Analysis Batch: 598644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	14.9		mg/L		100	90 - 110

Lab Sample ID: MRL 400-598644/14
Matrix: Water
Analysis Batch: 598644

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.80	J	mg/L		96	50 - 150

Lab Sample ID: 400-227701-3 MS
Matrix: Water
Analysis Batch: 598644

Client Sample ID: MW-U1-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	2.4	J	10.0	12.2		mg/L		98	77 - 128

Lab Sample ID: 400-227701-3 MSD
Matrix: Water
Analysis Batch: 598644

Client Sample ID: MW-U1-20221019
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	2.4	J	10.0	12.2		mg/L		98	77 - 128	1	5

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

Chain of Custody Record

eurofins — Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
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:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

400-227701 COC

ANALYZE FOR: B, Ca, As, Ba, Cr, Mo

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	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
DUP-19-20221020	10/20/22		G	Water	N	N	X	X	SEE INSTRUCTIONS		X	X	X	X		N/A
MW-D1-20221020	10/20/22	1200	G	Water	N	N	X	X			X	X	X	X		pH-7.19
MW-U1-20221019	10/19/22	1235	G	Water	N	N	X	X			X	X	X	X		pH-7.98
MW-D2-20221020	10/20/22	1336	G	Water	N	N	X	X			X	X	X	X		pH-6.75
MW-D3-20221020	10/20/22	1005	G	Water	N	N	X	X			X	X	X	X		pH-7.23
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG DG DG

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc GEO	10/21/22 1700	GEO	FEDEX	10/21/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10/22/22 0855	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0°C IR8

Ver: 06/08/2021

1/11/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227701-1

Login Number: 227701
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	3.6°C IR8
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: CCR Crisp County Power

Job ID: 400-227701-1

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
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
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
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
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

CCR Crisp County Power

JOB NUMBER

400-227701-2

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

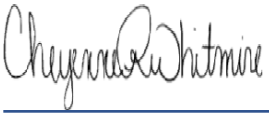
See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

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: 400-227701-2

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227701-2

Receipt
The samples were received on 10/22/2022 8:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-588510: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.DUP-19-20221020 (400-227701-1), MW-D1-20221020 (400-227701-2), MW-U1-20221019 (400-227701-3), MW-D2-20221020 (400-227701-4), MW-D3-20221020 (400-227701-5), (LCS 160-588510/2-A), (MB 160-588510/1-A), (310-243397-E-1-A) and (310-243397-D-1-A DU)

Method 9320_Ra228: Radium-228 prep batch 160-588511: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.DUP-19-20221020 (400-227701-1), MW-D1-20221020 (400-227701-2), MW-U1-20221019 (400-227701-3), MW-D2-20221020 (400-227701-4), MW-D3-20221020 (400-227701-5), (LCS 160-588511/2-A), (MB 160-588511/1-A), (310-243397-E-1-B) and (310-243397-D-1-B DU)

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: CCR Crisp County Power

Job ID: 400-227701-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227701-1	DUP-19-20221020	Water	10/20/22 12:00	10/22/22 08:55
400-227701-2	MW-D1-20221020	Water	10/20/22 12:00	10/22/22 08:55
400-227701-3	MW-U1-20221019	Water	10/19/22 12:35	10/22/22 08:55
400-227701-4	MW-D2-20221020	Water	10/20/22 13:36	10/22/22 08:55
400-227701-5	MW-D3-20221020	Water	10/20/22 10:05	10/22/22 08:55

Client Sample ID: DUP-19-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-1

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	0.0661	U	0.0669	0.0672	1.00	0.105	pCi/L	11/04/22 06:57	11/30/22 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:13*	*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	0.382	U	0.338	0.340	1.00	0.533	pCi/L	11/04/22 07:25	11/18/22 13:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:36*	*1*
Y Carrier	*78.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:36*	*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	0.448	U	0.345	0.347	5.00	0.533	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D1-20221020

Date Collected: 10/20/22 12:00
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-2

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	0.0664	U	0.0656	0.0659	1.00	0.102	pCi/L	11/04/22 06:57	11/30/22 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.4*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:13*	*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	**0.492**		0.306	0.309	1.00	0.438	pCi/L	11/04/22 07:25	11/18/22 13:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.4*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:36*	*1*
Y Carrier	*82.6*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:36*	*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	**0.559**		0.313	0.316	5.00	0.438	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-U1-20221019

Date Collected: 10/19/22 12:35
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-3

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	0.0307	U	0.0663	0.0664	1.00	0.119	pCi/L	11/04/22 06:57	11/30/22 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*11/04/22 06:57*	*11/30/22 08:14*	*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	0.270	U	0.277	0.278	1.00	0.444	pCi/L	11/04/22 07:25	11/18/22 13:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*1*
Y Carrier	*81.1*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*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	0.301	U	0.285	0.286	5.00	0.444	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D2-20221020

Date Collected: 10/20/22 13:36
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-4

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	**0.144**		0.0818	0.0828	1.00	0.108	pCi/L	11/04/22 06:57	11/30/22 10:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*11/04/22 06:57*	*11/30/22 10:00*	*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	-0.223	U	0.244	0.245	1.00	0.520	pCi/L	11/04/22 07:25	11/18/22 13:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*1*
Y Carrier	*82.6*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*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	-0.0787	U	0.257	0.259	5.00	0.520	pCi/L		11/30/22 15:38	1

Client Sample ID: MW-D3-20221020

Date Collected: 10/20/22 10:05
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-5

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	0.0834	U	0.0784	0.0788	1.00	0.123	pCi/L	11/04/22 06:57	11/30/22 10:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*11/04/22 06:57*	*11/30/22 10:00*	*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	0.362	U	0.342	0.344	1.00	0.545	pCi/L	11/04/22 07:25	11/18/22 13:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*1*
Y Carrier	*77.0*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:37*	*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	0.446	U	0.351	0.353	5.00	0.545	pCi/L		11/30/22 15:38	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-2

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-2

Client Sample ID: DUP-19-20221020
Lab Sample ID: 400-227701-1
Date Collected: 10/20/22 12:00
Matrix: Water
Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:13
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:36
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-D1-20221020
Lab Sample ID: 400-227701-2
Date Collected: 10/20/22 12:00
Matrix: Water
Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:13
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:36
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-U1-20221019
Lab Sample ID: 400-227701-3
Date Collected: 10/19/22 12:35
Matrix: Water
Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591654	SCB	EET SL	11/30/22 08:14
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:37
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Client Sample ID: MW-D2-20221020
Lab Sample ID: 400-227701-4
Date Collected: 10/20/22 13:36
Matrix: Water
Date Received: 10/22/22 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591653	FLC	EET SL	11/30/22 10:00
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:37
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: CCR Crisp County Power

Job ID: 400-227701-2

Client Sample ID: MW-D3-20221020

Date Collected: 10/20/22 10:05
Date Received: 10/22/22 08:55

Lab Sample ID: 400-227701-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			588510	BMP	EET SL	11/04/22 06:57
Total/NA	Analysis	9315		1	591653	FLC	EET SL	11/30/22 10:00
Total/NA	Prep	PrecSep_0			588511	BMP	EET SL	11/04/22 07:25
Total/NA	Analysis	9320		1	590566	SCB	EET SL	11/18/22 13:37
Total/NA	Analysis	Ra226_Ra228		1	591707	FLC	EET SL	11/30/22 15:38

Laboratory References:

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

Rad

Prep Batch: 588510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	PrecSep-21	
400-227701-2	MW-D1-20221020	Total/NA	Water	PrecSep-21	
400-227701-3	MW-U1-20221019	Total/NA	Water	PrecSep-21	
400-227701-4	MW-D2-20221020	Total/NA	Water	PrecSep-21	
400-227701-5	MW-D3-20221020	Total/NA	Water	PrecSep-21	
MB 160-588510/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588510/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-243397-D-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 588511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227701-1	DUP-19-20221020	Total/NA	Water	PrecSep_0	
400-227701-2	MW-D1-20221020	Total/NA	Water	PrecSep_0	
400-227701-3	MW-U1-20221019	Total/NA	Water	PrecSep_0	
400-227701-4	MW-D2-20221020	Total/NA	Water	PrecSep_0	
400-227701-5	MW-D3-20221020	Total/NA	Water	PrecSep_0	
MB 160-588511/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588511/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-243397-D-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-588510/1-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588510

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1345		0.0727	0.0737	1.00	0.0859	pCi/L	11/04/22 06:57	11/30/22 07:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 06:57*	*11/30/22 07:57*	*1*

Lab Sample ID: LCS 160-588510/2-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588510

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.714		1.02	1.00	0.0975	pCi/L	86	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*

Lab Sample ID: 310-243397-D-1-A DU
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588510

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.51			1.387		0.241	1.00	0.101	pCi/L			0.25	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-588511/1-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588511

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6649		0.372	0.377	1.00	0.537	pCi/L	11/04/22 07:25	11/18/22 13:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*
Y Carrier	*81.5*		*40 - 110*	*11/04/22 07:25*	*11/18/22 13:34*	*1*

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

Lab Sample ID: LCS 160-588511/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588511

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.43	9.353		1.27	1.00	0.516	pCi/L	111	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.1*		*40 - 110*
Y Carrier	*80.4*		*40 - 110*

Lab Sample ID: 310-243397-D-1-B DU
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 588511

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.50			1.101		0.430	1.00	0.531	pCi/L			0.45	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.1*		*40 - 110*
Y Carrier	*81.9*		*40 - 110*

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

Chain of Custody Record

eurofins — Environment Testing America

Client Information	Sampler: Derya Genc	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-112841-29334.1
Client Contact: Dawit Yifru	Phone:	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.	PWSID:			Job #:
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:	PO #: Purchase Order not required			
Email: dyifru@geosyntec.com	WO #:			
Project Name: Crisp County CCR	Project #: 40007960			
Site: Crisp County Power	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

400-227701 COC

ANALYZE FOR: B, Ca, As, Ba, Cr, Mo

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	Special Instructions/Note:
			Preservation Code:				D	N	D	D	N	N	N	N		
DUP-19-20221020	10/20/22		G	Water	N	N	X	X	SEE INSTRUCTIONS		X	X	X	X		N/A
MW-D1-20221020	10/20/22	1200	G	Water	N	N	X	X			X	X	X	X		pH-7.19
MW-U1-20221019	10/19/22	1235	G	Water	N	N	X	X			X	X	X	X		pH-7.98
MW-D2-20221020	10/20/22	1336	G	Water	N	N	X	X			X	X	X	X		pH-6.75
MW-D3-20221020	10/20/22	1005	G	Water	N	N	X	X			X	X	X	X		pH-7.23
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

DG DG DG

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Derya Genc GEO	10/21/22 1700	GEO	FEDEX	10/21/22 1700	FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10/22/22 0855	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-227701-2

Login Number: 227701
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	3.6°C IR8
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: 400-227701-2

Login Number: 227701
List Number: 2
Creator: Booker, Autumn R

List Source: Eurofins St. Louis
List Creation: 10/25/22 12:28 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.	False	
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: CCR Crisp County Power

Job ID: 400-227701-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
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	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
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	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

APPENDIX C

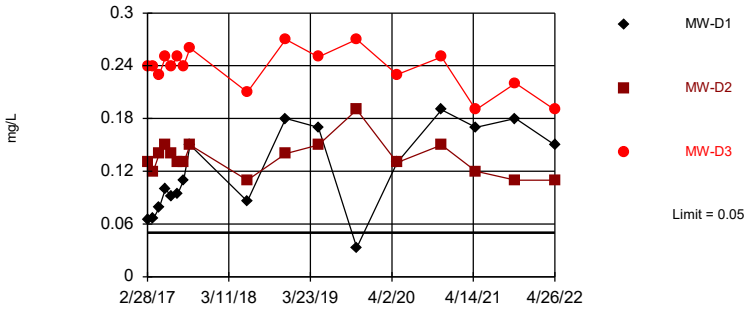
Statistical Calculations and Time-series Graphs

April 2022

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 18 background values. 72.22% NDs. Annual per-constituent alpha = 0.0304. Individual comparison alpha = 0.005131 (1 of 2). Comparing 3 points to limit. Insufficient data to test for seasonality; data will not be deseasonalized.

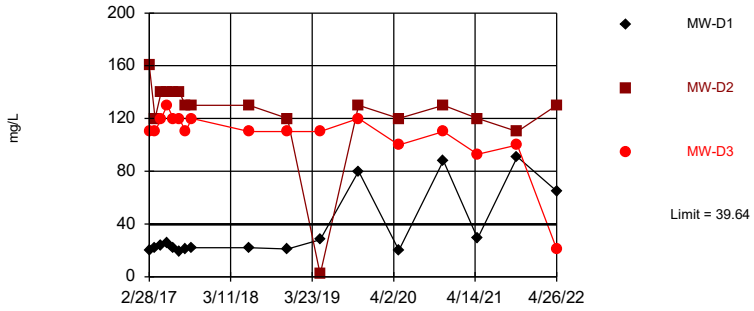
Constituent: Boron Analysis Run 6/27/2022 4:03 PM View: Sanitas_Statistics Sampling Events 1 through

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

Exceeds Limit: MW-D1, MW-D2

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=34.82, Std. Dev.=2.481, n=17. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9604, critical = 0.851. Kappa = 1.942 (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.

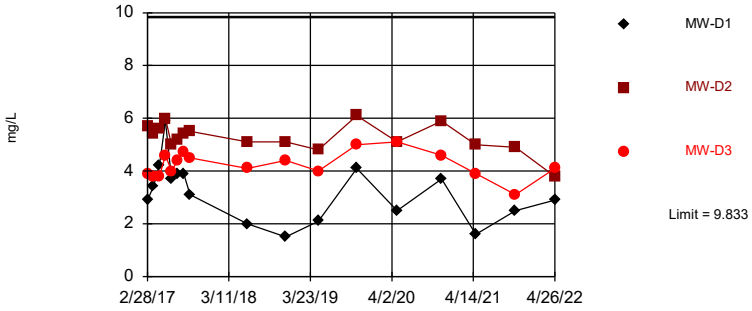
Constituent: Calcium Analysis Run 6/27/2022 4:03 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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 17 background values. Annual per-constituent alpha = 0.03331. Individual comparison alpha = 0.00563 (1 of 2). Comparing 3 points to limit. Insufficient data to test for seasonality; data will not be deseasonalized.

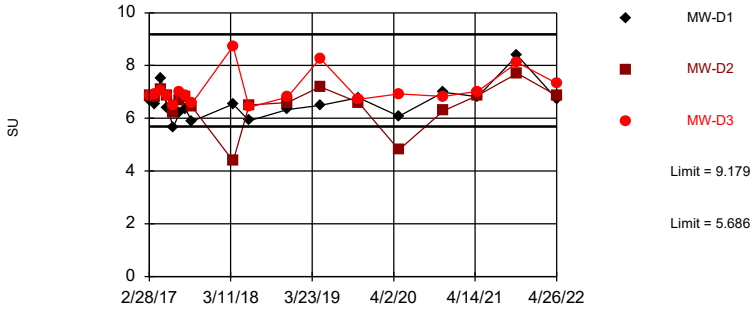
Constituent: Chloride Analysis Run 6/27/2022 4:04 PM View: Sanitas_Statistics Sampling Events 1 throug

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

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.432, Std. Dev.=0.9078, n=18. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8664, critical = 0.858. Kappa = 1.924 (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 6/27/2022 4:04 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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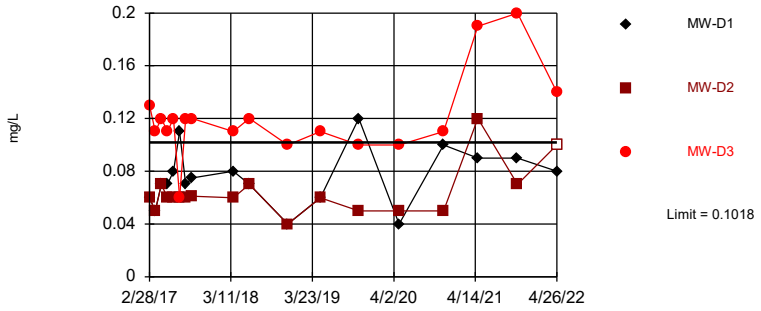
Hollow symbols indicate censored values.

Exceeds Limit: MW-D3

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.2513, Std. Dev.=0.03522, n=18, 11.11% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8756, critical = 0.858. Kappa = 1.924 (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 6/27/2022 4:05 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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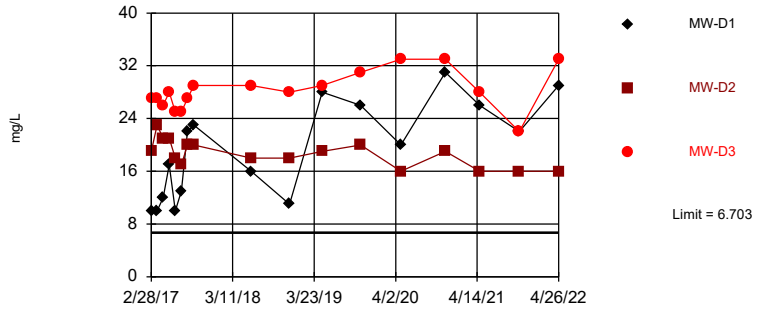
Exceeds Limit: MW-D1, MW-D2, MW-D3

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.733, Std. Dev.=0.4408, n=17, 11.76% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8669, critical = 0.851. Kappa = 1.942 (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: Sulfate Analysis Run 6/27/2022 4:07 PM View: Sanitas_Statistics Sampling Events 1 through

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

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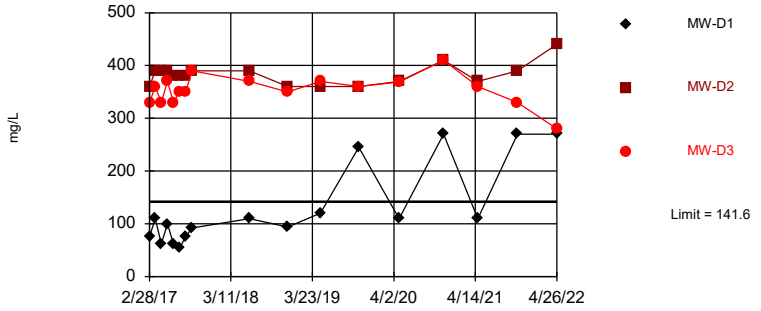
Exceeds Limit: MW-D1, MW-D2, MW-D3

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=97.53, Std. Dev.=22.69, n=17. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9453, critical = 0.851. Kappa = 1.942 (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 6/27/2022 4:07 PM View: Sanitas_Statistics Sampling E

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

Prediction Limit

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/27/2022, 4:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	**MW-D1**	**0.05**	**n/a**	**4/26/2022**	**0.15**	**Yes**	**18**	**72.22**	**n/a**	**0.005131**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MW-D2**	**0.05**	**n/a**	**4/26/2022**	**0.11**	**Yes**	**18**	**72.22**	**n/a**	**0.005131**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MW-D3**	**0.05**	**n/a**	**4/26/2022**	**0.19**	**Yes**	**18**	**72.22**	**n/a**	**0.005131**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**MW-D1**	**39.64**	**n/a**	**4/26/2022**	**65**	**Yes**	**17**	**0**	**No**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**MW-D2**	**39.64**	**n/a**	**4/26/2022**	**130**	**Yes**	**17**	**0**	**No**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	MW-D3	39.64	n/a	4/26/2022	21	No	17	0	No	0.002505	Param Inter 1 of 2
Chloride (mg/L)	MW-D1	9.833	n/a	4/26/2022	2.9	No	17	0	n/a	0.00563	NP Inter (normality) ...
Chloride (mg/L)	MW-D2	9.833	n/a	4/26/2022	3.8	No	17	0	n/a	0.00563	NP Inter (normality) ...
Chloride (mg/L)	MW-D3	9.833	n/a	4/26/2022	4.1	No	17	0	n/a	0.00563	NP Inter (normality) ...
Field pH (SU)	MW-D1	9.179	5.686	4/26/2022	6.73	No	18	0	No	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D2	9.179	5.686	4/26/2022	6.86	No	18	0	No	0.001253	Param Inter 1 of 2
Field pH (SU)	MW-D3	9.179	5.686	4/26/2022	7.32	No	18	0	No	0.001253	Param Inter 1 of 2
Fluoride (mg/L)	MW-D1	0.1018	n/a	4/26/2022	0.08J	No	18	11.11	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	MW-D2	0.1018	n/a	4/26/2022	0.1ND	No	18	11.11	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	**MW-D3**	**0.1018**	**n/a**	**4/26/2022**	**0.14**	**Yes**	**18**	**11.11**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-D1**	**6.703**	**n/a**	**4/26/2022**	**29**	**Yes**	**17**	**11.76**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-D2**	**6.703**	**n/a**	**4/26/2022**	**16**	**Yes**	**17**	**11.76**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MW-D3**	**6.703**	**n/a**	**4/26/2022**	**33**	**Yes**	**17**	**11.76**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**MW-D1**	**141.6**	**n/a**	**4/26/2022**	**270**	**Yes**	**17**	**0**	**No**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**MW-D2**	**141.6**	**n/a**	**4/26/2022**	**440**	**Yes**	**17**	**0**	**No**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**MW-D3**	**141.6**	**n/a**	**4/26/2022**	**280**	**Yes**	**17**	**0**	**No**	**0.002505**	**Param Inter 1 of 2**

Summary Report

Constituent: Antimony (mg/L) Analysis Run 6/27/2022 4:17 PM View: Sanitas_Statistics Sampling Events 1 through 18
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

Summary Report

Constituent: Antimony Analysis Run 6/27/2022 4:12 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0025
Mean Value = 0.002346
Median Value = 0.0025
Standard Deviation = 0.0005381
Coefficient of Variation = 0.2294
Skewness = -3.175

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175
MW-D2	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175
MW-D3	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175
MW-U1 (bg)	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175

Summary Report

Constituent: Arsenic (mg/L) Analysis Run 6/27/2022 4:16 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Arsenic Analysis Run 6/27/2022 4:16 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 72
ND/Trace = 66
Wells = 4
Minimum Value = 0.00015
Maximum Value = 0.0019
Mean Value = 0.001148
Median Value = 0.0013
Standard Deviation = 0.0003337
Coefficient of Variation = 0.2906
Skewness = -1.365

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	18	18	0.00025	0.0013	0.001242	0.0013	0.0002475	0.1993	-3.881
MW-D2	18	14	0.00027	0.0013	0.001152	0.0013	0.0003144	0.273	-1.916
MW-D3	18	4	0.00048	0.0016	0.0009772	0.000985	0.0003531	0.3613	0.1096
MW-U1 (bg)	18	14	0.00015	0.0019	0.001223	0.0013	0.0003663	0.2995	-1.676

Summary Report

Constituent: Barium (mg/L) Analysis Run 6/27/2022 4:19 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Barium Analysis Run 6/27/2022 4:19 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 72
ND/Trace = 11
Wells = 4
Minimum Value = 0.0018
Maximum Value = 0.23
Mean Value = 0.07689
Median Value = 0.044
Standard Deviation = 0.07549
Coefficient of Variation = 0.9819
Skewness = 0.4357

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	18	0	0.0095	0.027	0.01452	0.0135	0.00507	0.3493	1.251
MW-D2	18	0	0.087	0.19	0.1409	0.14	0.02388	0.1694	-0.2995
MW-D3	18	0	0.061	0.23	0.1496	0.155	0.0574	0.3838	-0.1852
MW-U1 (bg)	18	0	0.0018	0.0062	0.002528	0.0022	0.001004	0.3972	2.928

Summary Report

Constituent: Beryllium (mg/L) Analysis Run 6/27/2022 4:20 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Beryllium Analysis Run 6/27/2022 4:20 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.0004
Maximum Value = 0.0025
Mean Value = 0.001915
Median Value = 0.002
Standard Deviation = 0.0004616
Coefficient of Variation = 0.241
Skewness = -2.635

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635
MW-D2	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635
MW-D3	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635
MW-U1 (bg)	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635

Summary Report

Constituent: Cadmium (mg/L) Analysis Run 6/27/2022 4:22 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Cadmium Analysis Run 6/27/2022 4:22 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 56
ND/Trace = 56
Wells = 4
Minimum Value = 0.000071
Maximum Value = 0.0025
Mean Value = 0.001045
Median Value = 0.001
Standard Deviation = 0.0004648
Coefficient of Variation = 0.4446
Skewness = 1.691

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	14	14	0.0002	0.0025	0.00105	0.001	0.0004686	0.4463	1.887
MW-D2	14	13	0.000075	0.0025	0.001041	0.001	0.0004869	0.4677	1.523
MW-D3	14	13	0.000071	0.0025	0.001041	0.001	0.0004875	0.4684	1.512
MW-U1 (bg)	14	14	0.0002	0.0025	0.00105	0.001	0.0004686	0.4463	1.887

Summary Report

Constituent: Chromium (mg/L) Analysis Run 6/27/2022 4:23 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Chromium Analysis Run 6/27/2022 4:22 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 64
ND/Trace = 58
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0051
Mean Value = 0.002208
Median Value = 0.0025
Standard Deviation = 0.0007633
Coefficient of Variation = 0.3457
Skewness = 0.2125

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	14	0.0005	0.0034	0.002369	0.0025	0.0006074	0.2564	-1.86
MW-D2	16	14	0.0005	0.0038	0.002375	0.0025	0.0006894	0.2903	-1.112
MW-D3	16	15	0.0005	0.0029	0.0024	0.0025	0.0005164	0.2152	-3.36
MW-U1 (bg)	16	0	0.0011	0.0051	0.001688	0.0014	0.0009749	0.5777	2.948

Summary Report

Constituent: Cobalt (mg/L) Analysis Run 6/27/2022 4:26 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Cobalt Analysis Run 6/27/2022 4:23 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 68
ND/Trace = 67
Wells = 4
Minimum Value = 0.00035
Maximum Value = 0.0025
Mean Value = 0.002063
Median Value = 0.0025
Standard Deviation = 0.0007167
Coefficient of Variation = 0.3474
Skewness = -1.205

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	17	17	0.0005	0.0025	0.002382	0.0025	0.0004851	0.2036	-3.75
MW-D2	17	15	0.00047	0.0025	0.002292	0.0025	0.0005936	0.259	-2.487
MW-D3	17	2	0.00035	0.0025	0.001312	0.0013	0.0005622	0.4284	0.7009
MW-U1 (bg)	17	17	0.0005	0.0025	0.002265	0.0025	0.0006642	0.2933	-2.373

Summary Report

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2022 4:27 PM View: Sanitas_Statistics Sampling Events 1 through 18

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	<5	<5	0.615
4/26/2021	<5	0.773	<5	0.609
10/26/2021	0.749	0.812	0.666	0.801
4/26/2022	<5	0.783	<5	<5

Summary Report

Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2022 4:27 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 72
ND/Trace = 17
Wells = 4
Minimum Value = 0
Maximum Value = 5
Mean Value = 0.8962
Median Value = 0.461
Standard Deviation = 1.385
Coefficient of Variation = 1.545
Skewness = 2.521

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	18	4	0.0994	5	0.9254	0.43	1.502	1.623	2.356
MW-D2	18	4	0.0139	5	0.7815	0.495	1.092	1.398	3.435
MW-D3	18	5	0.0501	5	1.32	0.568	1.717	1.301	1.686
MW-U1 (bg)	18	4	0	5	0.5585	0.244	1.134	2.031	3.593

Summary Report

Constituent: Fluoride (mg/L) Analysis Run 6/27/2022 4:29 PM View: Sanitas_Statistics Sampling Events 1 through 18

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)

Summary Report

Constituent: Fluoride Analysis Run 6/27/2022 4:28 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 72
ND/Trace = 50
Wells = 4
Minimum Value = 0.04
Maximum Value = 0.2
Mean Value = 0.08103
Median Value = 0.07
Standard Deviation = 0.03272
Coefficient of Variation = 0.4038
Skewness = 1.276

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	18	0	0.04	0.12	0.07528	0.0725	0.02173	0.2886	0.2446
MW-D2	18	1	0.04	0.12	0.06394	0.06	0.01882	0.2943	1.804
MW-D3	18	0	0.06	0.2	0.1206	0.115	0.03171	0.263	1.121
MW-U1 (bg)	18	2	0.04	0.1	0.06433	0.06	0.01858	0.2887	0.928

Summary Report

Constituent: Lead (mg/L) Analysis Run 6/27/2022 4:30 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Lead Analysis Run 6/27/2022 4:29 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0013
Mean Value = 0.001164
Median Value = 0.0013
Standard Deviation = 0.0003321
Coefficient of Variation = 0.2853
Skewness = -2.119

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	12	0.00025	0.0013	0.001181	0.0013	0.0003119	0.2642	-2.409
MW-D2	13	11	0.00025	0.0013	0.001086	0.0013	0.0004096	0.3771	-1.333
MW-D3	13	13	0.00025	0.0013	0.001219	0.0013	0.0002912	0.2389	-3.175
MW-U1 (bg)	13	12	0.00025	0.0013	0.001169	0.0013	0.0003295	0.2818	-2.163

Summary Report

Constituent: Lithium (mg/L) Analysis Run 6/27/2022 4:31 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Lithium Analysis Run 6/27/2022 4:31 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 60
ND/Trace = 59
Wells = 4
Minimum Value = 0.00034
Maximum Value = 0.005
Mean Value = 0.002417
Median Value = 0.0025
Standard Deviation = 0.0008526
Coefficient of Variation = 0.3528
Skewness = 0.3034

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	15	14	0.0005	0.005	0.00252	0.0025	0.0008571	0.3401	0.822
MW-D2	15	13	0.0005	0.005	0.00248	0.0025	0.0009473	0.382	0.5088
MW-D3	15	12	0.00048	0.005	0.002445	0.0025	0.0009156	0.3744	0.7303
MW-U1 (bg)	15	14	0.00034	0.0025	0.002223	0.0025	0.0007325	0.3296	-2.165

Summary Report

Constituent: Mercury (mg/L) Analysis Run 6/27/2022 4:32 PM View: Sanitas_Statistics Sampling Events 1 through 18
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

Summary Report

Constituent: Mercury Analysis Run 6/27/2022 4:32 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.000077
Maximum Value = 0.0002
Mean Value = 0.0001918
Median Value = 0.0002
Standard Deviation = 0.00002747
Coefficient of Variation = 0.1432
Skewness = -3.237

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	12	0.000077	0.0002	0.0001905	0.0002	0.00003411	0.179	-3.175
MW-D2	13	11	0.00011	0.0002	0.0001915	0.0002	0.00002512	0.1311	-2.94
MW-D3	13	12	0.00011	0.0002	0.0001931	0.0002	0.00002496	0.1293	-3.175
MW-U1 (bg)	13	12	0.000099	0.0002	0.0001922	0.0002	0.00002801	0.1457	-3.175

Summary Report

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2022 4:33 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Molybdenum Analysis Run 6/27/2022 4:33 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 64
ND/Trace = 64
Wells = 4
Minimum Value = 0.0012
Maximum Value = 0.015
Mean Value = 0.007975
Median Value = 0.01
Standard Deviation = 0.003698
Coefficient of Variation = 0.4638
Skewness = -0.746

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	16	0.002	0.015	0.009812	0.01	0.002428	0.2475	-1.622
MW-D2	16	13	0.0012	0.015	0.008269	0.01	0.004044	0.4891	-0.7559
MW-D3	16	4	0.0017	0.01	0.004756	0.00285	0.00355	0.7463	0.7381
MW-U1 (bg)	16	16	0.002	0.01	0.009062	0.01	0.002568	0.2834	-2.291

Summary Report

Constituent: Selenium (mg/L) Analysis Run 6/27/2022 4:34 PM View: Sanitas_Statistics Sampling Events 1 through 18

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

Summary Report

Constituent: Selenium Analysis Run 6/27/2022 4:34 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 60
ND/Trace = 57
Wells = 4
Minimum Value = 0.00021
Maximum Value = 0.0028
Mean Value = 0.001101
Median Value = 0.0013
Standard Deviation = 0.000442
Coefficient of Variation = 0.4015
Skewness = 0.01535

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	15	14	0.00025	0.0013	0.001165	0.0013	0.0003557	0.3052	-2.165
MW-D2	15	12	0.00025	0.0013	0.001098	0.0013	0.0003804	0.3464	-1.484
MW-D3	15	11	0.00021	0.0028	0.001175	0.0013	0.0006131	0.5216	0.6699
MW-U1 (bg)	15	8	0.00039	0.0013	0.0009647	0.0013	0.0003819	0.3959	-0.3031

Summary Report

Constituent: Thallium (mg/L) Analysis Run 6/27/2022 4:35 PM View: Sanitas_Statistics Sampling Events 1 through 18
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

Summary Report

Constituent: Thallium Analysis Run 6/27/2022 4:35 PM View: Sanitas_Statistics Sampling Events 1 through 18
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 68
ND/Trace = 66
Wells = 4
Minimum Value = 0.000085
Maximum Value = 0.0005
Mean Value = 0.0003543
Median Value = 0.0005
Standard Deviation = 0.0001876
Coefficient of Variation = 0.5295
Skewness = -0.5141

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	17	17	0.0001	0.0005	0.0004765	0.0005	0.00009701	0.2036	-3.75
MW-D2	17	7	0.000085	0.0005	0.0002794	0.00013	0.0001939	0.6939	0.2675
MW-D3	17	3	0.000095	0.0005	0.000185	0.00012	0.0001512	0.8174	1.652
MW-U1 (bg)	17	17	0.0001	0.0005	0.0004765	0.0005	0.00009701	0.2036	-3.75

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/27/2022, 4:39 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 (nrm)	NaN	12	0.002333	0.0005774	unknown	ShapiroWilk
Antimony (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	12	0.002333	0.0005774	unknown	ShapiroWilk
Antimony (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	12	0.002333	0.0005774	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	12	0.002333	0.0005774	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	17	0.001238	0.0002547	unknown	ShapiroWilk
Arsenic (mg/L)	**MW-D2**	**Yes**	**0.00027**	**4/27/2020**	**NP (nrm)**	**NaN**	**17**	**0.001143**	**0.0003218**	**unknown**	**ShapiroWilk**
Arsenic (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	17	0.000...	0.0003544	sqrt(x)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	17	0.001183	0.000335	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	17	0.01449	0.005225	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.141	0.02461	x^2	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	17	0.1541	0.0557	x^2	ShapiroWilk
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**17**	**0.002494**	**0.001024**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001908	0.0004963	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001908	0.0004963	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001908	0.0004963	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001908	0.0004963	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	13	0.001054	0.0004875	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	13	0.001044	0.0005066	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	13	0.001044	0.0005073	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	13	0.001054	0.0004875	unknown	ShapiroWilk
Chromium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	15	0.002427	0.0005812	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	15	0.002367	0.0007128	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	15	0.002393	0.0005338	unknown	ShapiroWilk
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051**	**2/28/2017**	**NP**	**NaN**	**15**	**0.001627**	**0.0009772**	**ln(x)**	**ShapiroWilk**
Cobalt (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	16	0.002375	0.0005	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	16	0.002279	0.0006106	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	16	0.001238	0.000487	sqrt(x)	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	16	0.00225	0.0006831	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D1	No	n/a	n/a	NP	NaN	17	0.6857	1.139	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**MW-D2**	**Yes**	**5**	**11/19/2020**	**NP**	**NaN**	**17**	**0.7815**	**1.126**	**x^(1/3)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	MW-D3	No	n/a	n/a	NP (nrm)	NaN	17	1.103	1.495	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	17	0.2972	0.2491	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	17	0.075	0.02236	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-D2	No	n/a	n/a	NP (nrm)	NaN	17	0.06182	0.01704	unknown	ShapiroWilk
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06,0.19...**	**7/17/2017...**	**NP**	**NaN**	**17**	**0.1194**	**0.0323**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP (nrm)	NaN	17	0.064	0.01909	unknown	ShapiroWilk
Lead (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001171	0.0003237	unknown	ShapiroWilk
Lead (mg/L)	MW-D2	No	n/a	n/a	NP (nrm)	NaN	12	0.001068	0.0004225	unknown	ShapiroWilk
Lead (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001213	0.0003031	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001158	0.0003417	unknown	ShapiroWilk
Lithium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	14	0.002521	0.0008894	unknown	ShapiroWilk
Lithium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	14	0.002479	0.0009831	unknown	ShapiroWilk
Lithium (mg/L)	**MW-D3**	**Yes**	**0.005,0.0...**	**3/22/2018...**	**NP (nrm)**	**NaN**	**14**	**0.002441**	**0.00095**	**unknown**	**ShapiroWilk**
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	14	0.002203	0.000756	unknown	ShapiroWilk
Mercury (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	12	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	12	0.000...	0.0000261	unknown	ShapiroWilk
Mercury (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	12	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	12	0.000...	0.0000...	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	15	0.0098	0.002513	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D2	No	n/a	n/a	NP (nrm)	NaN	15	0.008153	0.004158	unknown	ShapiroWilk

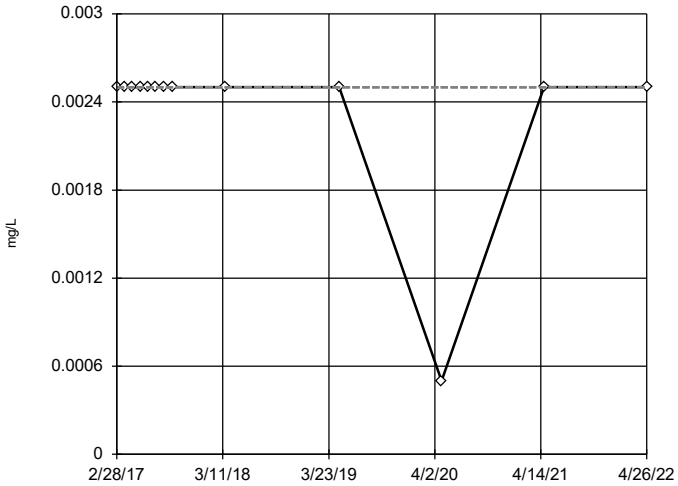
Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/27/2022, 4:39 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 (nrm)	NaN	15	0.004873	0.003642	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	15	0.009	0.002646	unknown	ShapiroWilk
Selenium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	14	0.001156	0.0003671	unknown	ShapiroWilk
Selenium (mg/L)	MW-D2	No	n/a	n/a	NP (nrm)	NaN	14	0.001084	0.0003904	unknown	ShapiroWilk
Selenium (mg/L)	MW-D3	No	n/a	n/a	NP (nrm)	NaN	14	0.001166	0.0006352	unknown	ShapiroWilk
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP (nrm)	NaN	14	0.000...	0.0003845	unknown	ShapiroWilk
Thallium (mg/L)	MW-D1	n/a	n/a	n/a	NP (nrm)	NaN	16	0.000475	0.0001	unknown	ShapiroWilk
Thallium (mg/L)	MW-D2	No	n/a	n/a	NP (nrm)	NaN	16	0.000...	0.0001914	unknown	ShapiroWilk
Thallium (mg/L)	**MW-D3**	**Yes**	**0.0005,0....**	**11/19/202...**	**NP**	**NaN**	**16**	**0.000...**	**0.0001318**	**ln(x)**	**ShapiroWilk**
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	16	0.000475	0.0001	unknown	ShapiroWilk

Tukey's Outlier Screening

MW-D1



n = 13

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: Antimony Analysis Run 6/27/2022 4:41 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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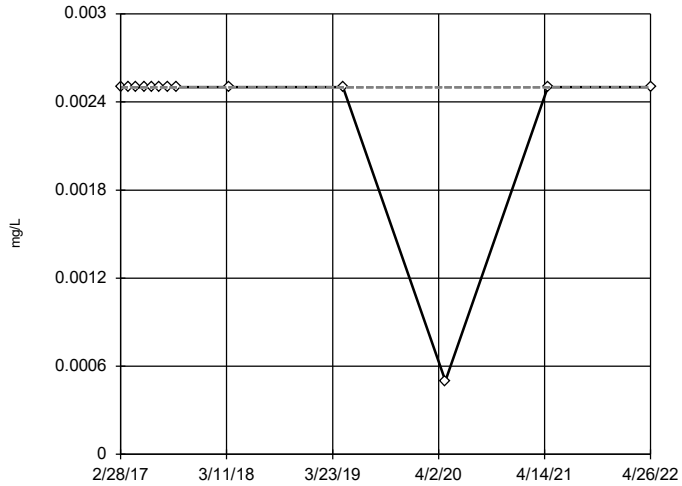
Tukey's Outlier Screening

MW-D2



n = 13

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: Antimony Analysis Run 6/27/2022 4:42 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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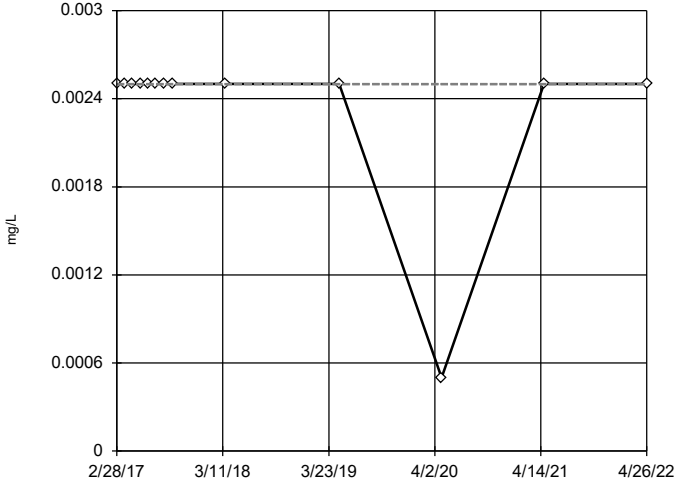
Tukey's Outlier Screening

MW-D3



n = 13

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: Antimony Analysis Run 6/27/2022 4:43 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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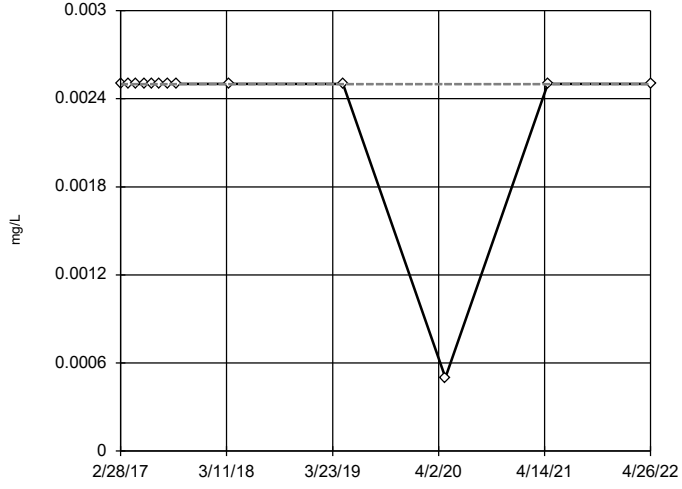
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

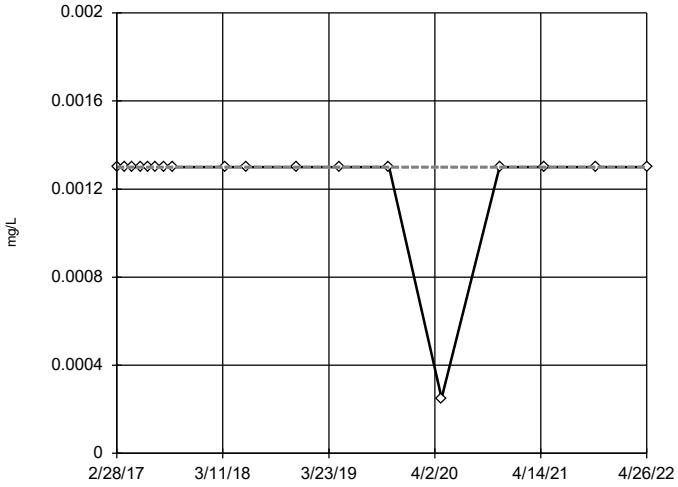
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 6/27/2022 4:43 PM View: Sanitas_Statistics Sampling Events 1 throu

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

Tukey's Outlier Screening

MW-D1



n = 18

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

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

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

Constituent: Arsenic Analysis Run 6/27/2022 4:49 PM View: Sanitas_Statistics Sampling Events 1 through

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

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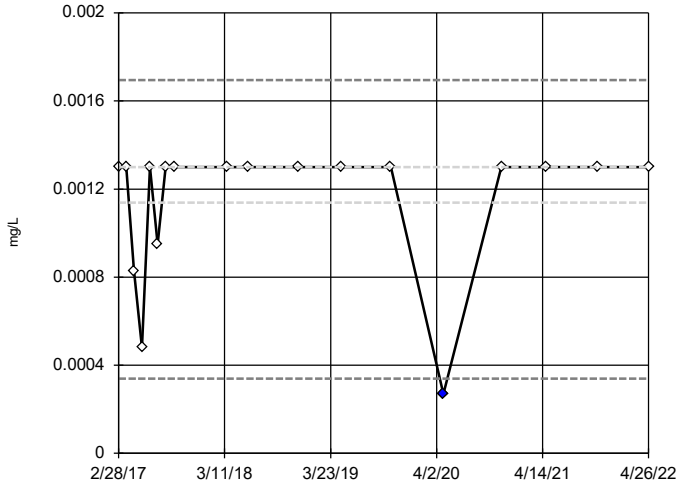
Tukey's Outlier Screening

MW-D2



n = 18

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

Data were square trans-formed to achieve best W statistic (graph shown in original units).

High cutoff = 0.001694, low cutoff = 0.0003391, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 6/27/2022 4:49 PM View: Sanitas_Statistics Sampling Events 1 through

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

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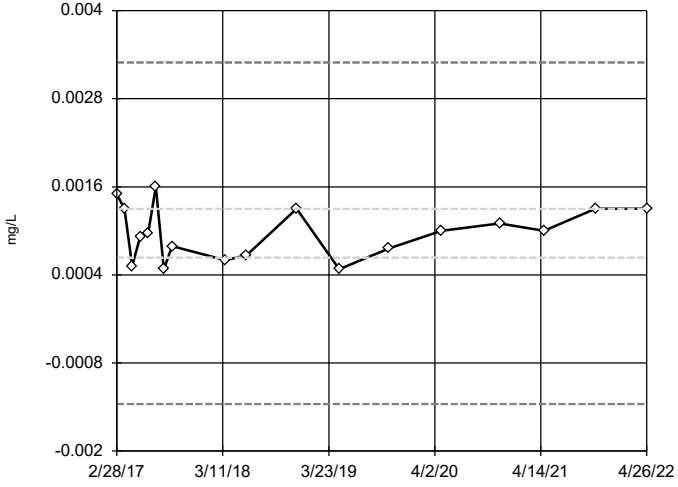
Tukey's Outlier Screening

MW-D3



n = 18

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

Ladder of Powers trans-formations did not improve normality; analysis run on raw data.

High cutoff = 0.003295, low cutoff = -0.00136, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 6/27/2022 4:49 PM View: Sanitas_Statistics Sampling Events 1 through

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

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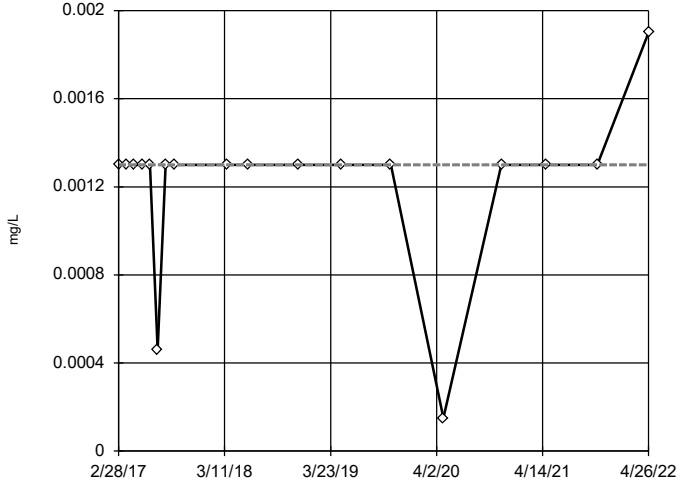
Tukey's Outlier Screening

MW-U1 (bg)



n = 18

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

Data were square trans-formed to achieve best W statistic (graph shown in original units).

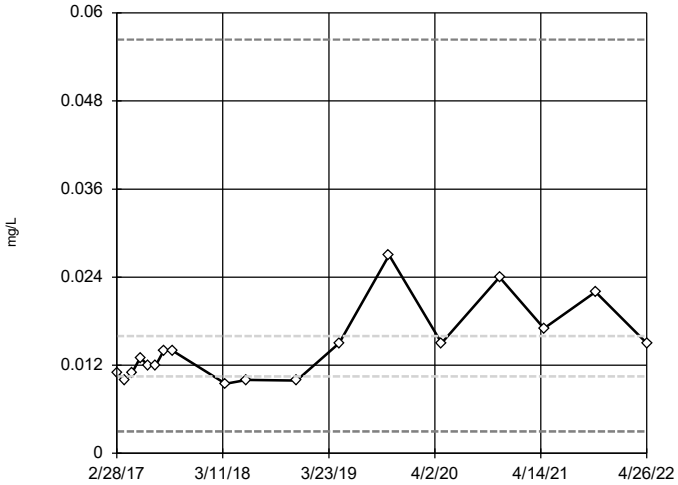
The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 6/27/2022 4:50 PM View: Sanitas_Statistics Sampling Events 1 through

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

Tukey's Outlier Screening

MW-D1



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 = 0.05636, low cutoff = 0.002971, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/27/2022 4:51 PM View: Sanitas_Statistics Sampling Events 1 through

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

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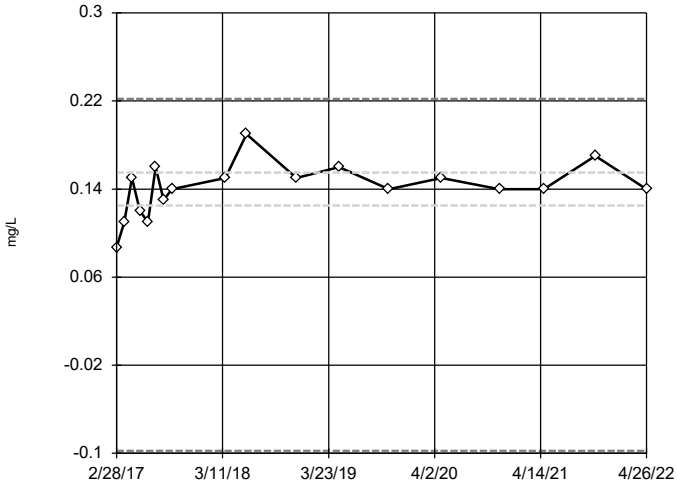
Tukey's Outlier Screening

MW-D2



n = 18

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

Data were square trans-formed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2219, low cutoff = -0.09772, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/27/2022 4:52 PM View: Sanitas_Statistics Sampling Events 1 through

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

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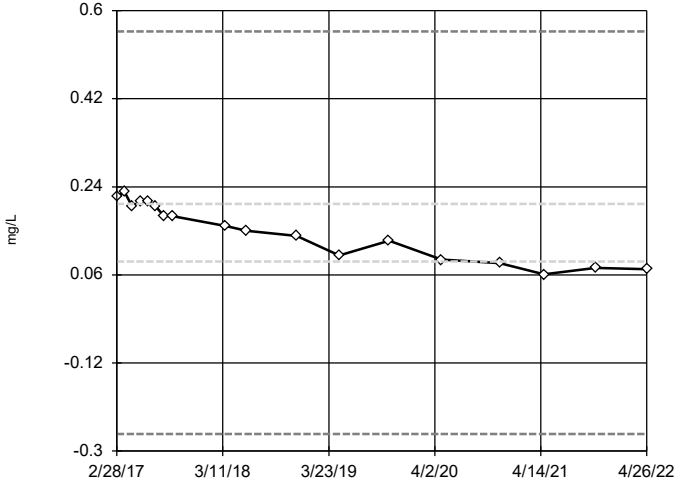
Tukey's Outlier Screening

MW-D3



n = 18

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

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

High cutoff = 0.5575, low cutoff = -0.265, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/27/2022 4:52 PM View: Sanitas_Statistics Sampling Events 1 through

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

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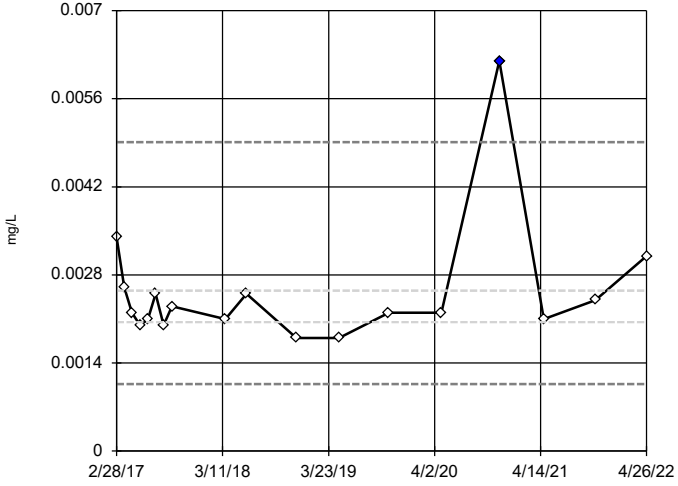
Tukey's Outlier Screening

MW-U1 (bg)



n = 18

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).

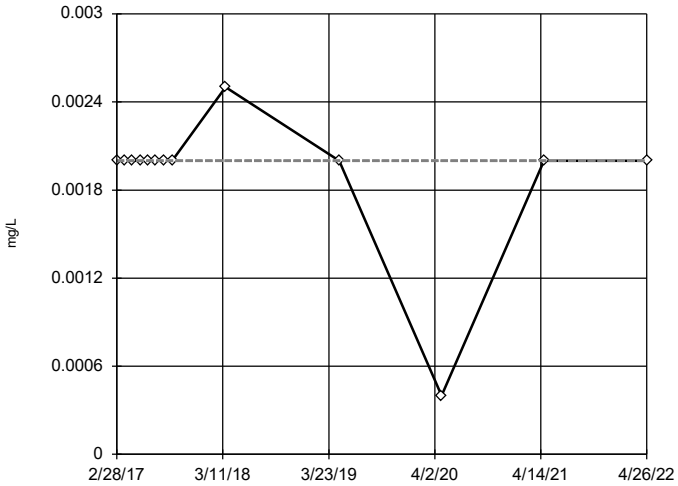
High cutoff = 0.004909, low cutoff = 0.001064, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/27/2022 4:52 PM View: Sanitas_Statistics Sampling Events 1 through

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

Tukey's Outlier Screening

MW-D1



n = 13

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 6/27/2022 4:54 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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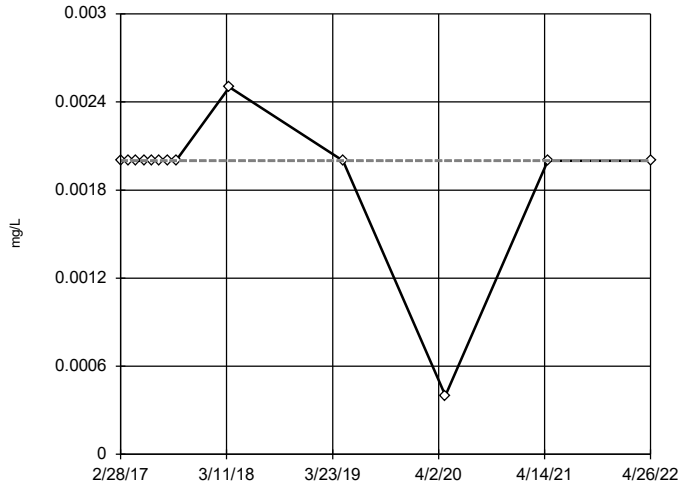
Tukey's Outlier Screening

MW-D2



n = 13

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 6/27/2022 4:54 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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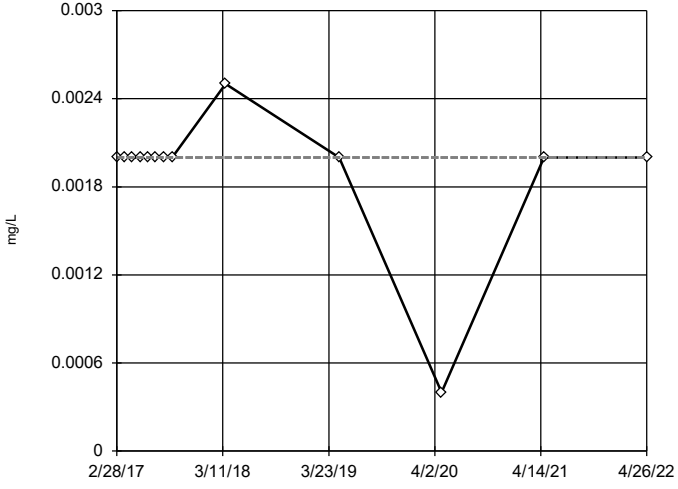
Tukey's Outlier Screening

MW-D3



n = 13

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 6/27/2022 4:54 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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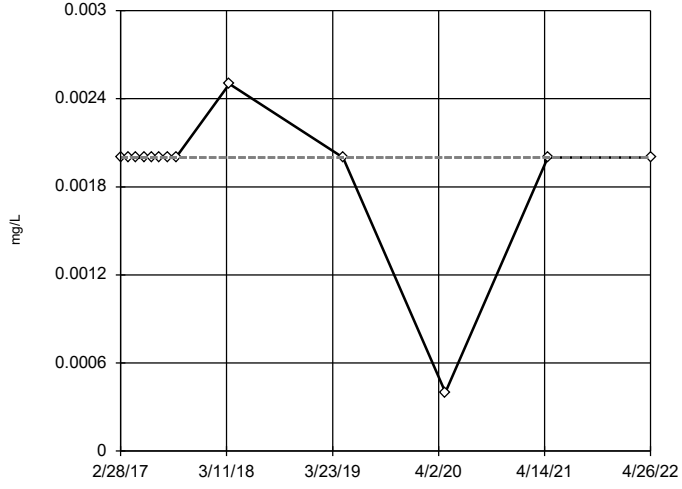
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

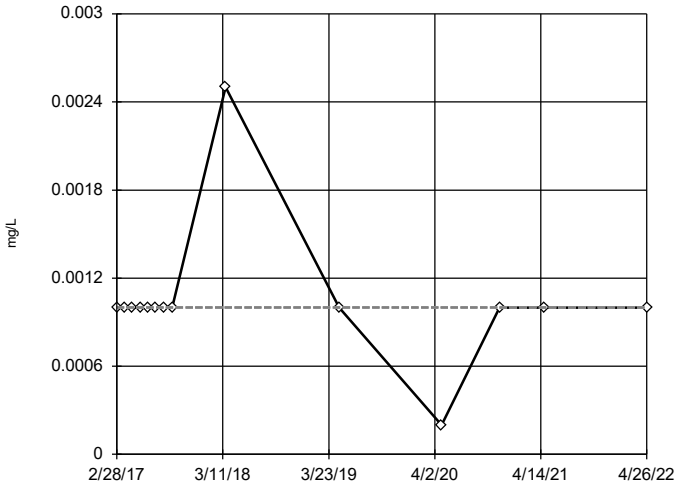
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 6/27/2022 4:54 PM View: Sanitas_Statistics Sampling Events 1 throu

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

Tukey's Outlier Screening

MW-D1



n = 14

No outliers found.
Tukey's method select-
ed by user.

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

The results were invalid
-
ated, because the
lower
and upper quartiles are
equal.

Constituent: Cadmium Analysis Run 6/27/2022 4:55 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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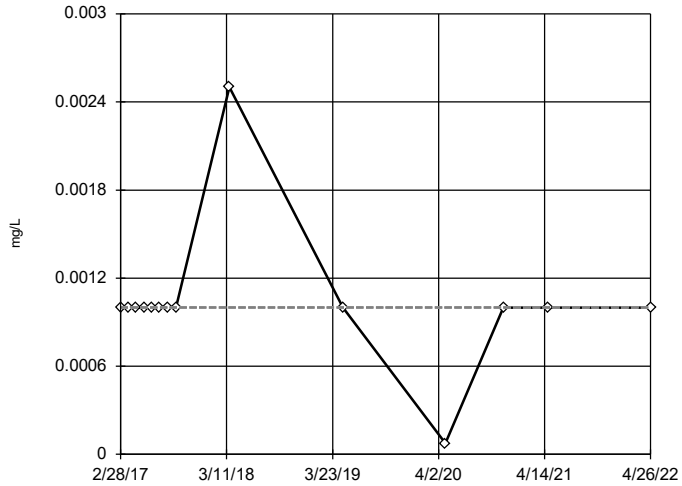
Tukey's Outlier Screening

MW-D2



n = 14

No outliers found.
Tukey's method select-
ed by user.

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

The results were invalid
-
ated, because the
lower
and upper quartiles are
equal.

Constituent: Cadmium Analysis Run 6/27/2022 4:55 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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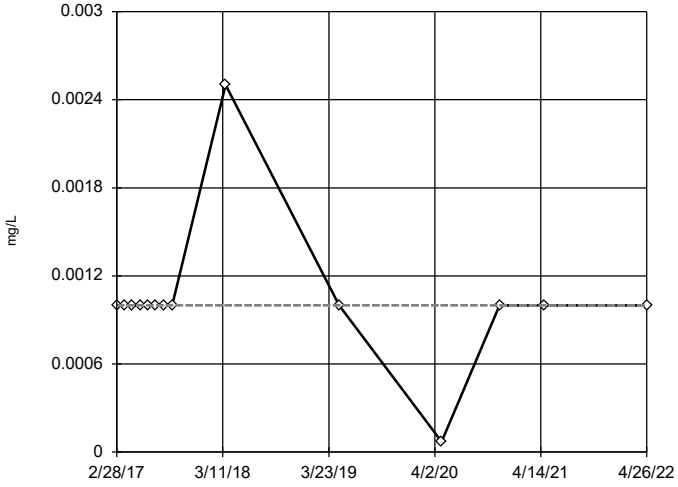
Tukey's Outlier Screening

MW-D3



n = 14

No outliers found.
Tukey's method select-
ed by user.

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

The results were invalid
-
ated, because the
lower
and upper quartiles are
equal.

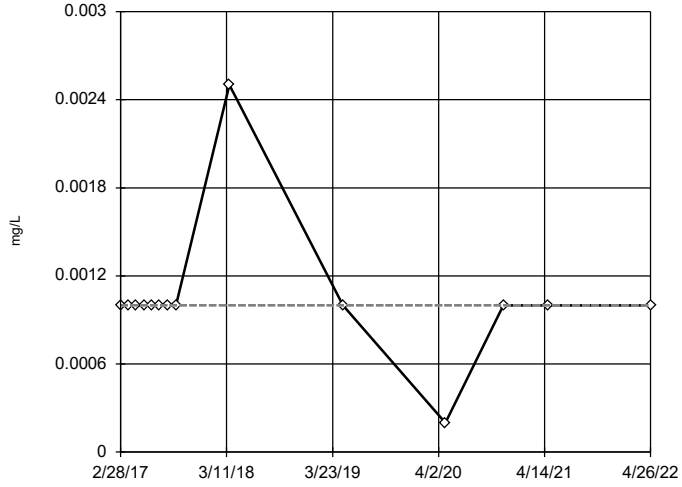
Constituent: Cadmium Analysis Run 6/27/2022 4:55 PM View: Sanitas_Statistics Sampling Events 1 throu

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

Tukey's Outlier Screening

MW-U1 (bg)



n = 14

No outliers found.
Tukey's method select-
ed by user.

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

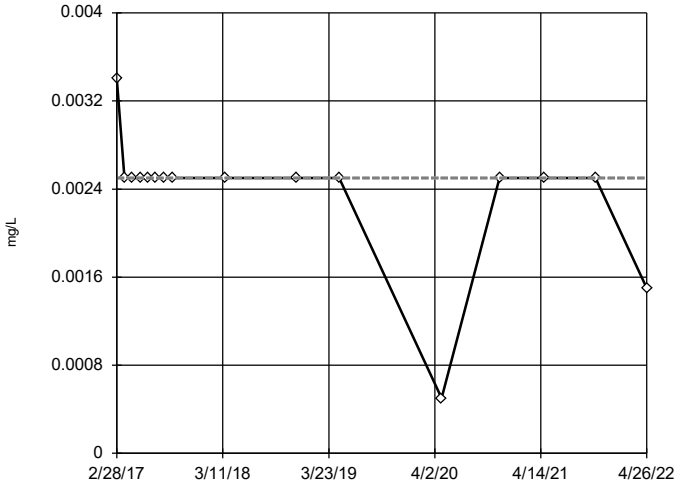
The results were invalid
-
ated, because the
lower
and upper quartiles are
equal.

Constituent: Cadmium Analysis Run 6/27/2022 4:55 PM View: Sanitas_Statistics Sampling Events 1 throu

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 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: Chromium Analysis Run 6/27/2022 4:56 PM View: Sanitas_Statistics Sampling Events 1 thro

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

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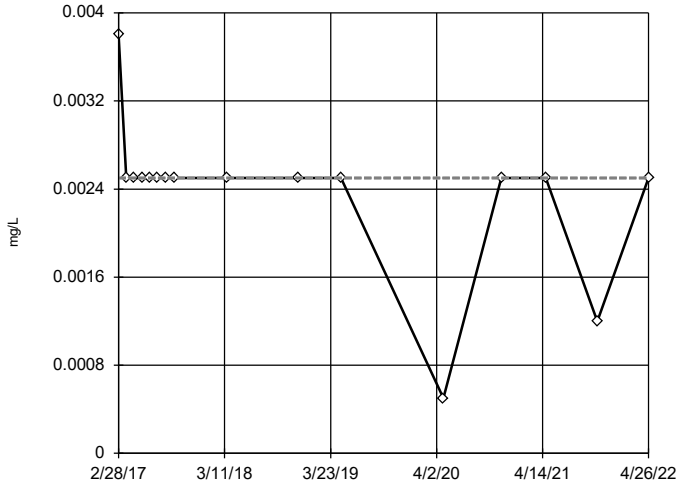
Tukey's Outlier Screening

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: Chromium Analysis Run 6/27/2022 4:56 PM View: Sanitas_Statistics Sampling Events 1 thro

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

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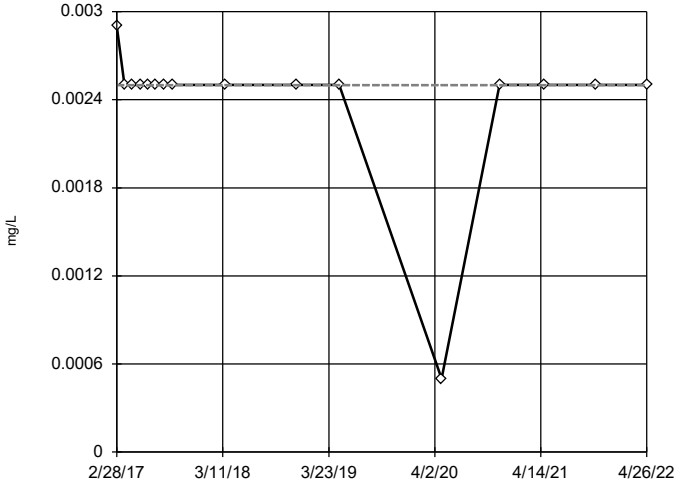
Tukey's Outlier Screening

MW-D3



n = 16

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

Data were 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: Chromium Analysis Run 6/27/2022 4:56 PM View: Sanitas_Statistics Sampling Events 1 thro

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

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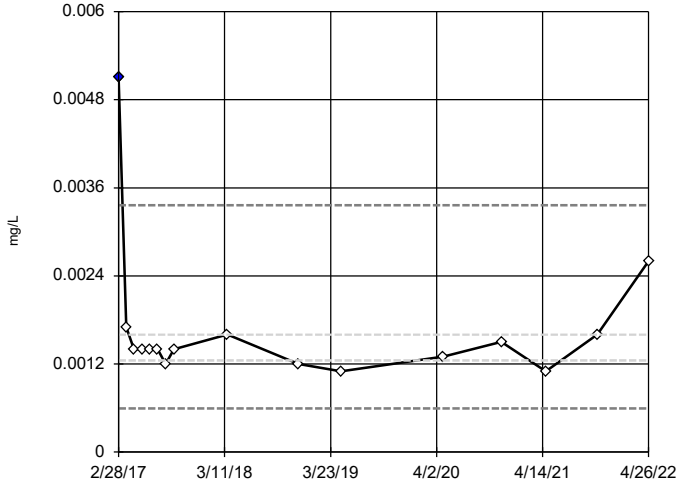
Tukey's Outlier Screening

MW-U1 (bg)



n = 16

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).

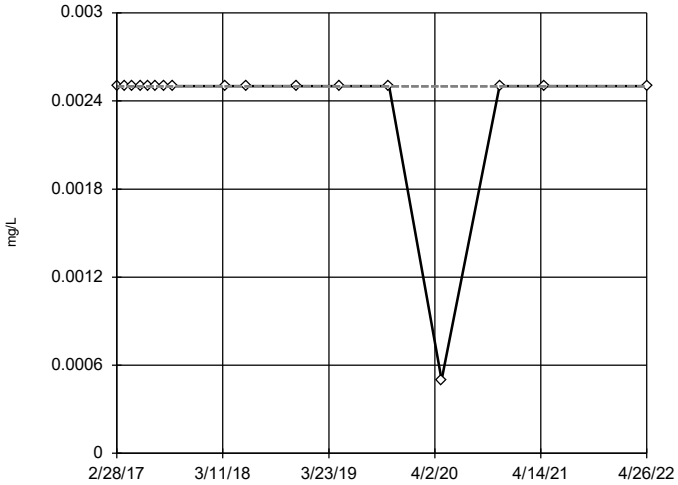
High cutoff = 0.003364, low cutoff = 0.0005941, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 6/27/2022 4:56 PM View: Sanitas_Statistics Sampling Events 1 thro

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

Tukey's Outlier Screening

MW-D1



n = 17

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

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

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

Constituent: Cobalt Analysis Run 6/27/2022 4:58 PM View: Sanitas_Statistics Sampling Events 1 through

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

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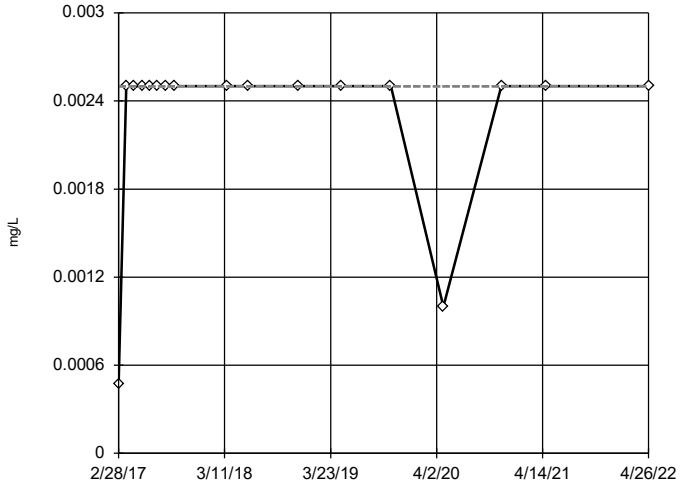
Tukey's Outlier Screening

MW-D2



n = 17

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 6/27/2022 4:59 PM View: Sanitas_Statistics Sampling Events 1 through

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

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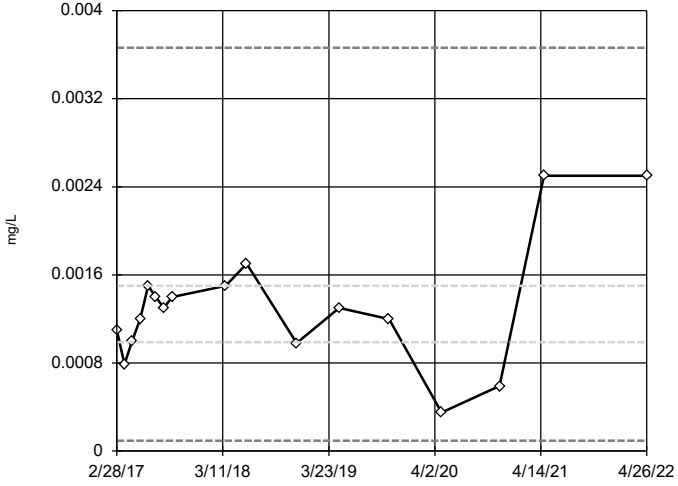
Tukey's Outlier Screening

MW-D3



n = 17

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 = 0.003664, low cutoff = 0.00009343, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 6/27/2022 4:59 PM View: Sanitas_Statistics Sampling Events 1 through

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

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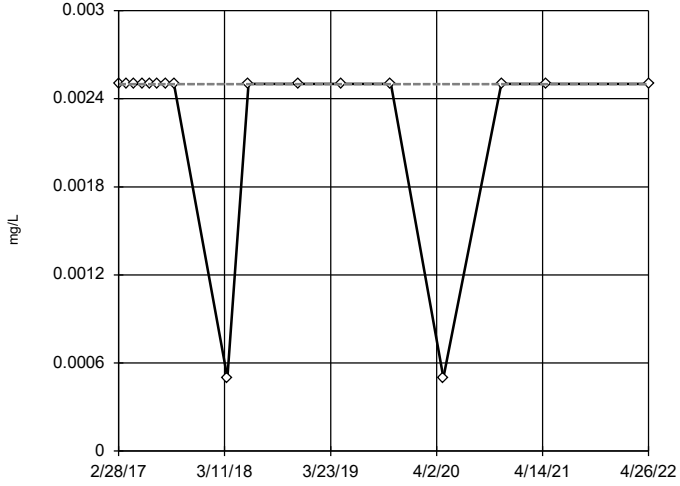
Tukey's Outlier Screening

MW-U1 (bg)



n = 17

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

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

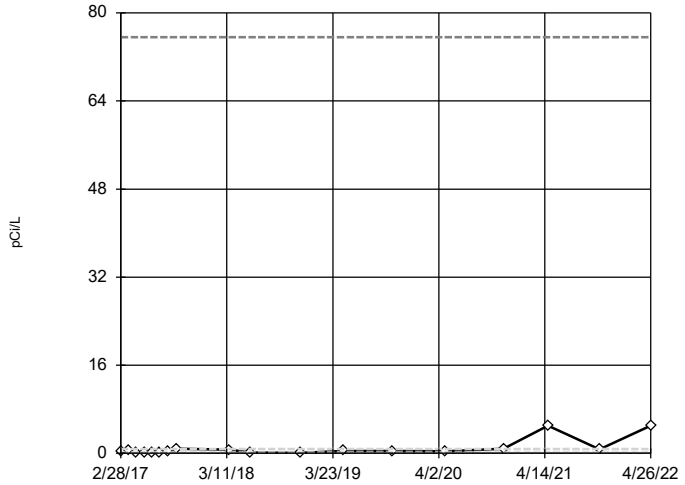
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 6/27/2022 4:59 PM View: Sanitas_Statistics Sampling Events 1 through

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

Tukey's Outlier Screening

MW-D1



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 = 75.58, low cutoff = 0.001762, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2022 5:03 PM View: Sanitas_Statistics Sam

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

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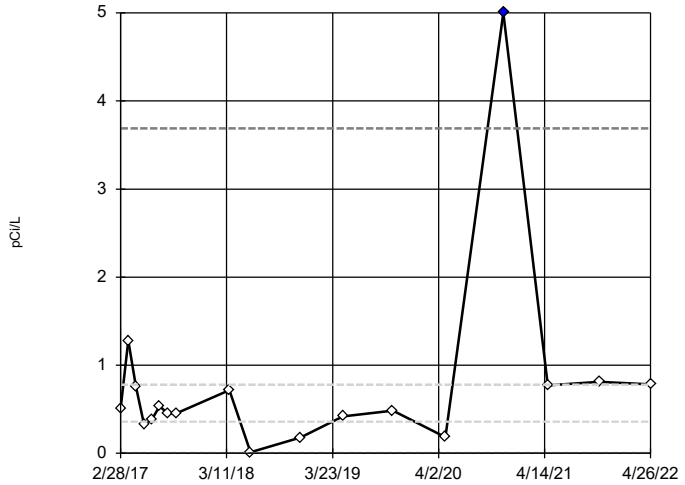
Tukey's Outlier Screening

MW-D2



n = 18

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

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

High cutoff = 3.689, low cutoff = 0.0006319, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2022 5:03 PM View: Sanitas_Statistics Sam

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

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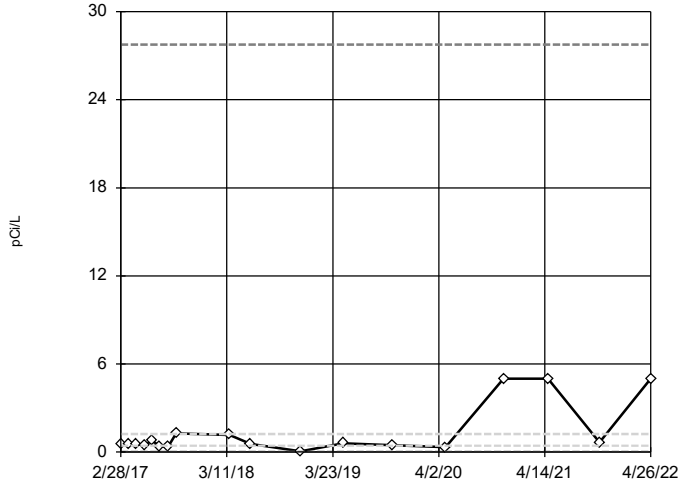
Tukey's Outlier Screening

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 = 27.75, low cutoff = 0.01906, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2022 5:04 PM View: Sanitas_Statistics Sam

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

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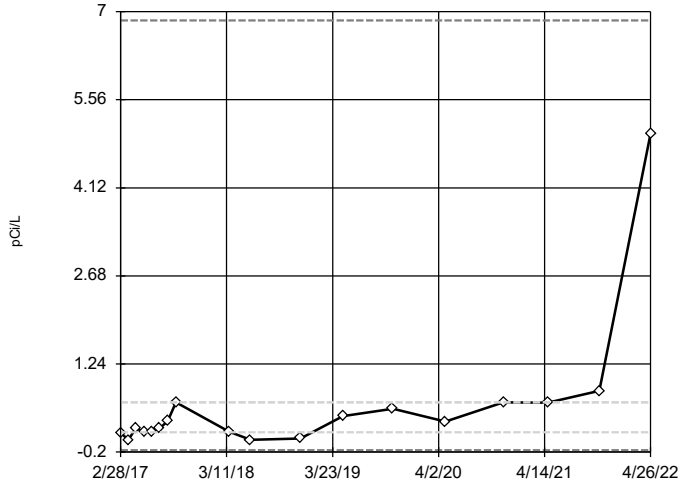
Tukey's Outlier Screening

MW-U1 (bg)



n = 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).

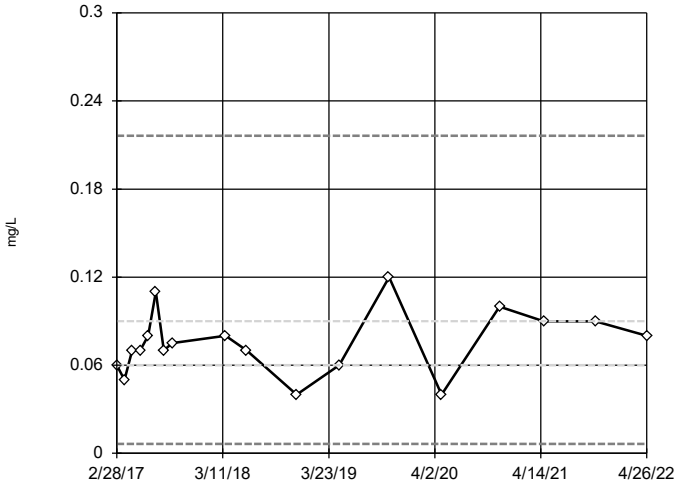
High cutoff = 6.856, low cutoff = -0.1686, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2022 5:04 PM View: Sanitas_Statistics Sam

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

Tukey's Outlier Screening

MW-D1



n = 18

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

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

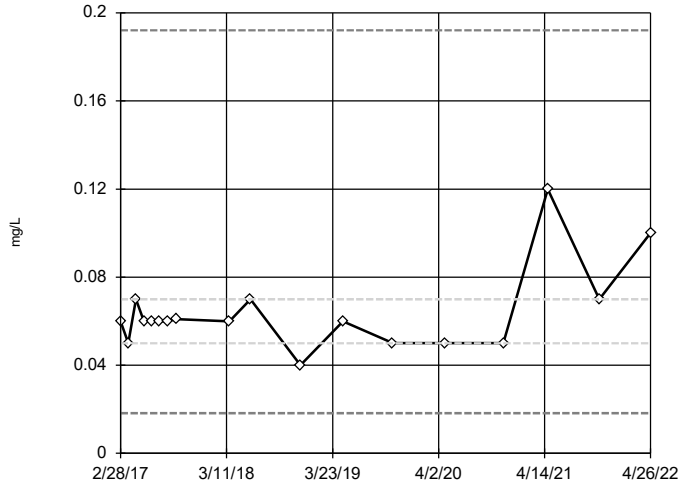
High cutoff = 0.2164, low cutoff = 0.006367, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/27/2022 5:05 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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).

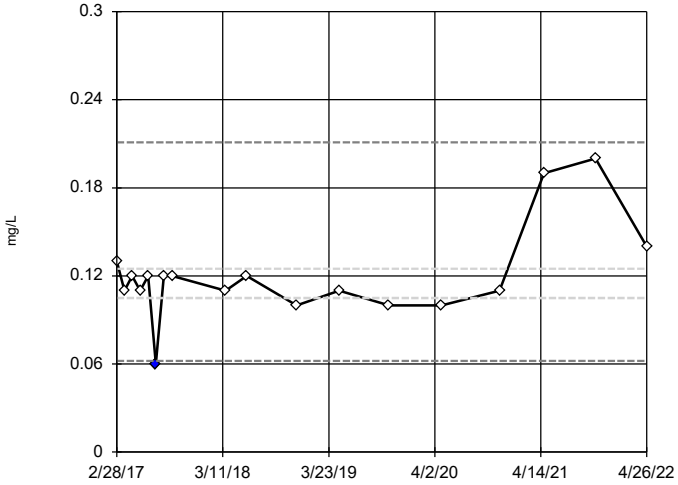
High cutoff = 0.1921, low cutoff = 0.01822, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/27/2022 5:06 PM View: Sanitas_Statistics Sampling Events 1 throug

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

Tukey's Outlier Screening

MW-D3



n = 18

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).

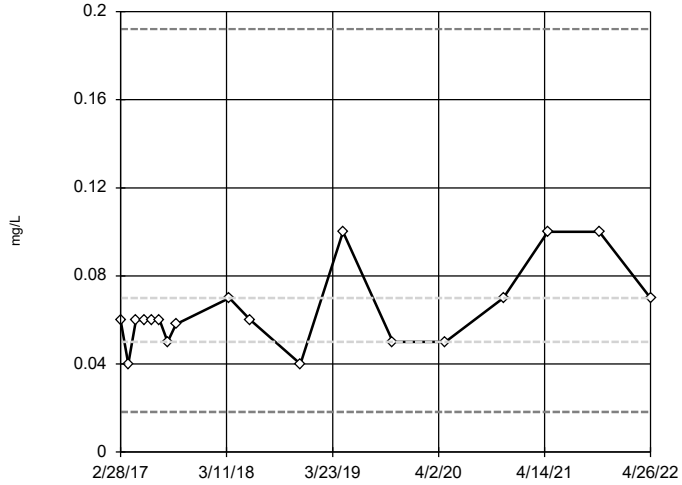
High cutoff = 0.2109, low cutoff = 0.0621, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/27/2022 5:06 PM View: Sanitas_Statistics Sampling Events 1 throug

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

Tukey's Outlier Screening

MW-U1 (bg)



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).

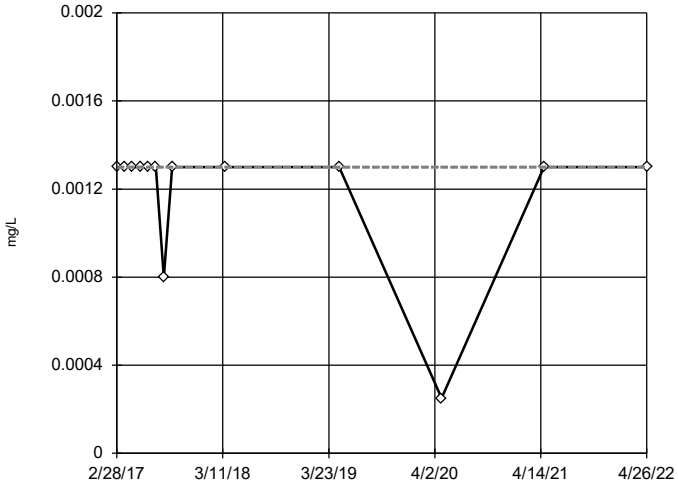
High cutoff = 0.1921, low cutoff = 0.01822, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/27/2022 5:06 PM View: Sanitas_Statistics Sampling Events 1 throug

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

Tukey's Outlier Screening

MW-D1



n = 13

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

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

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

Constituent: Lead Analysis Run 6/27/2022 5:07 PM View: Sanitas_Statistics Sampling Events 1 through 1

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

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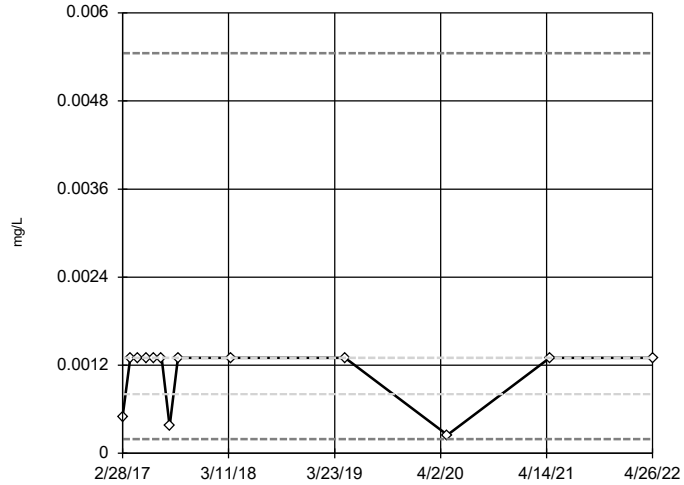
Tukey's Outlier Screening

MW-D2



n = 13

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 = 0.00545, low cutoff = 0.0001923, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 6/27/2022 5:07 PM View: Sanitas_Statistics Sampling Events 1 through 1

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

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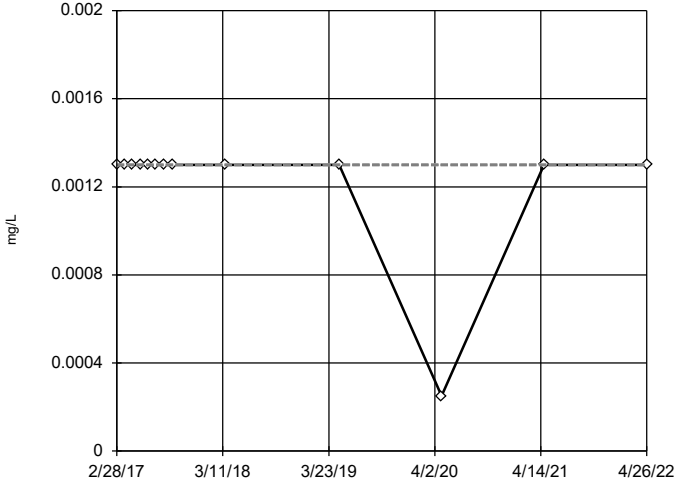
Tukey's Outlier Screening

MW-D3



n = 13

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 6/27/2022 5:07 PM View: Sanitas_Statistics Sampling Events 1 through 1

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

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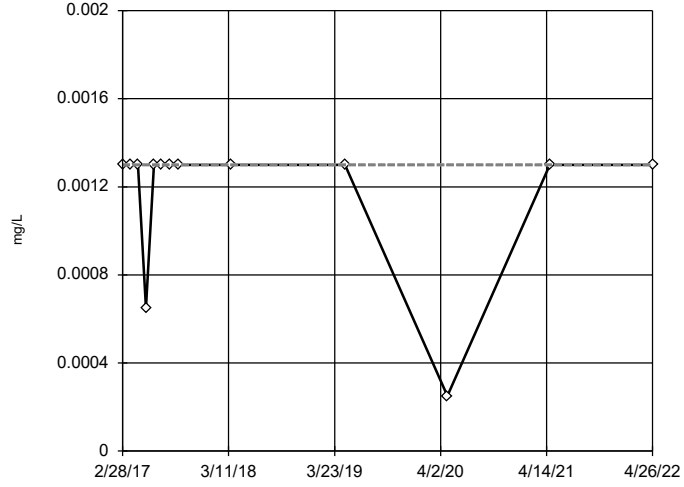
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

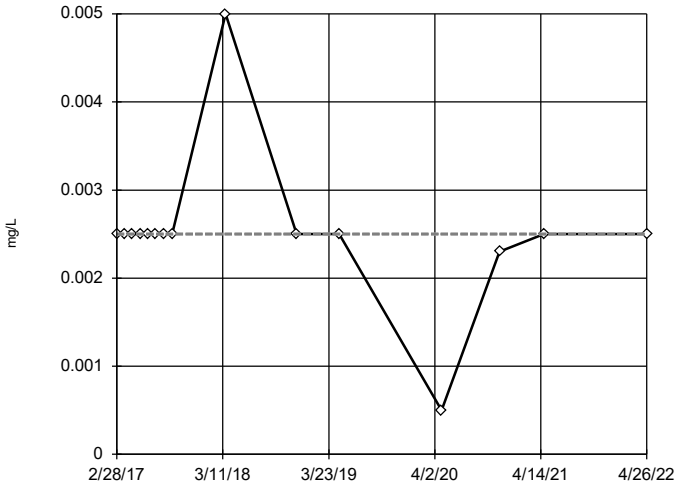
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 6/27/2022 5:07 PM View: Sanitas_Statistics Sampling Events 1 through 1

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.

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 6/27/2022 5:07 PM View: Sanitas_Statistics Sampling Events 1 through

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

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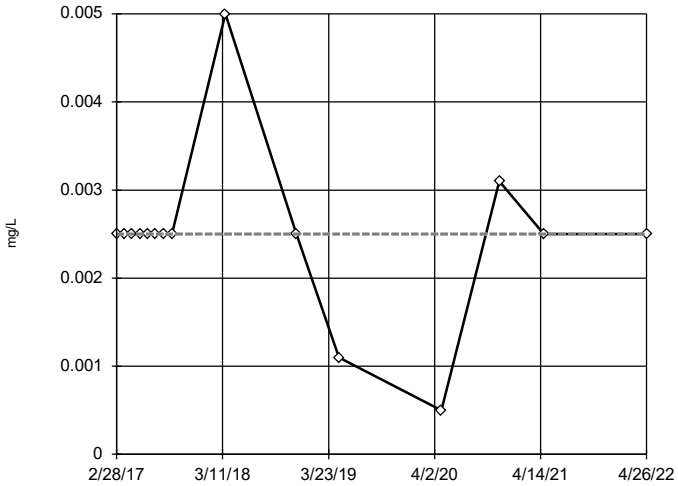
Tukey's Outlier Screening

MW-D2



n = 15

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

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 6/27/2022 5:08 PM View: Sanitas_Statistics Sampling Events 1 through

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

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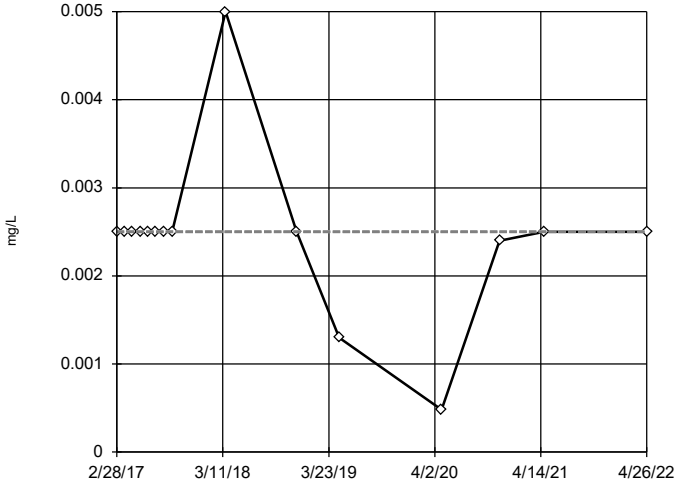
Tukey's Outlier Screening

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: Lithium Analysis Run 6/27/2022 5:08 PM View: Sanitas_Statistics Sampling Events 1 through

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

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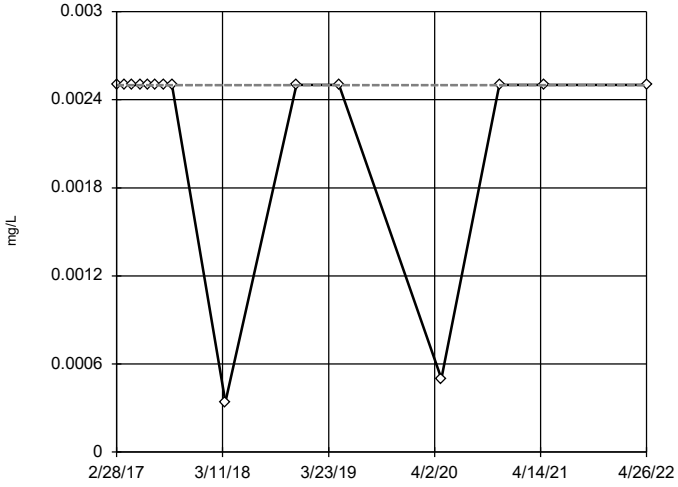
Tukey's Outlier Screening

MW-U1 (bg)



n = 15

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

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

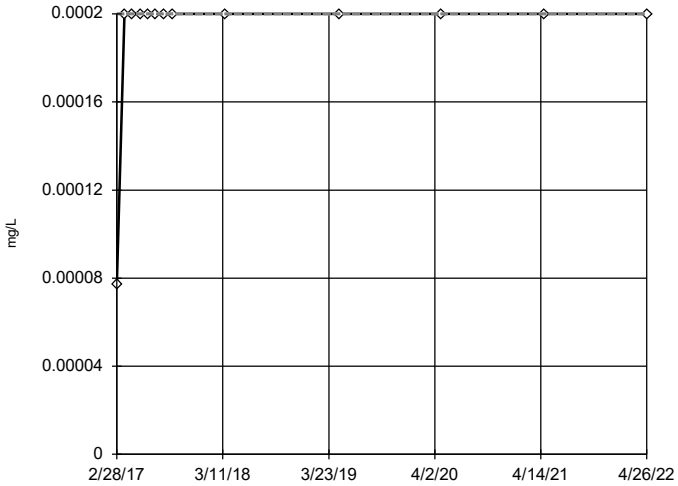
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 6/27/2022 5:08 PM View: Sanitas_Statistics Sampling Events 1 through

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

Tukey's Outlier Screening

MW-D1



n = 13

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 6/27/2022 5:09 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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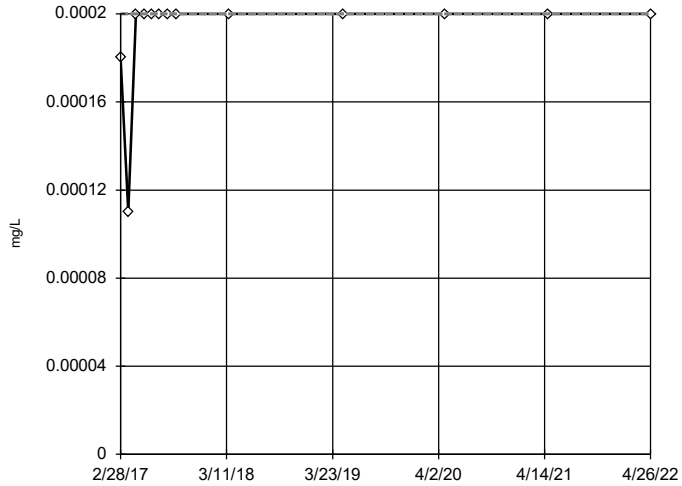
Tukey's Outlier Screening

MW-D2



n = 13

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

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

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

Constituent: Mercury Analysis Run 6/27/2022 5:09 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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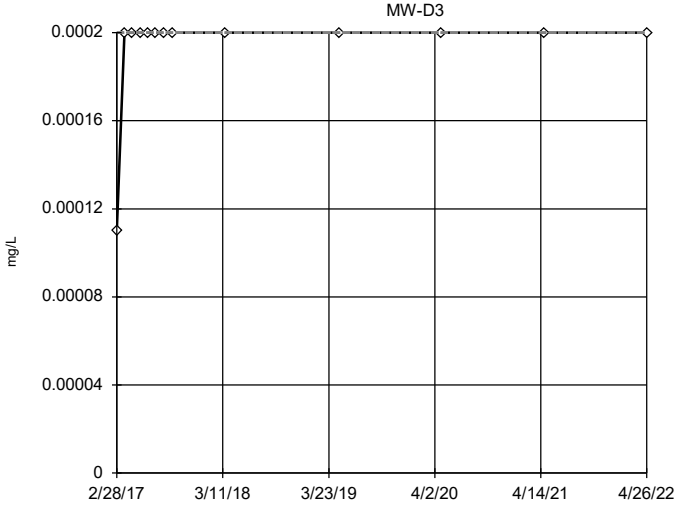
Tukey's Outlier Screening

MW-D3



n = 13

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: Mercury Analysis Run 6/27/2022 5:09 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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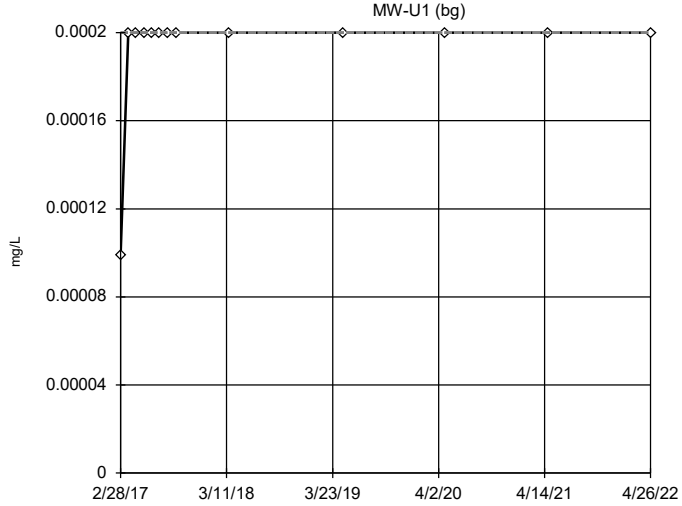
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

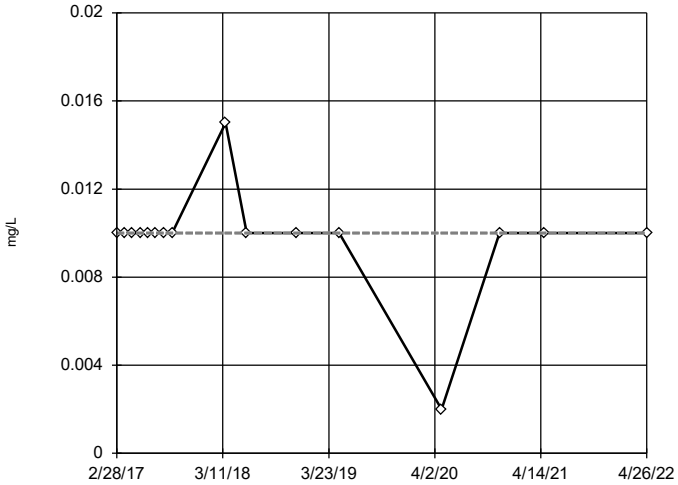
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 6/27/2022 5:09 PM View: Sanitas_Statistics Sampling Events 1 throug

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 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: Molybdenum Analysis Run 6/27/2022 5:10 PM View: Sanitas_Statistics Sampling Events 1 th

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

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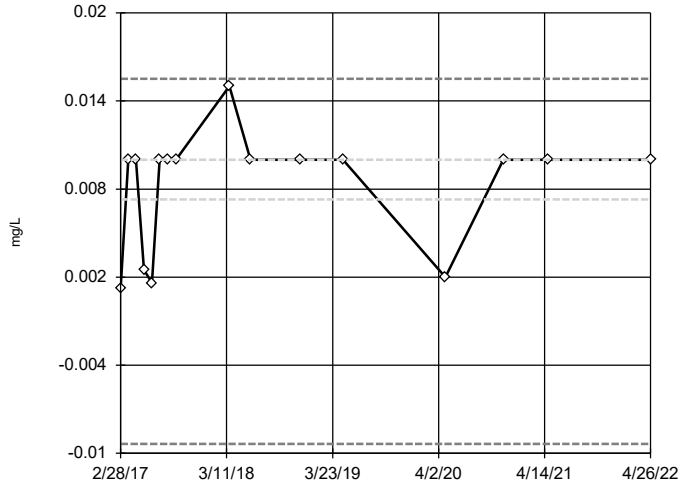
Tukey's Outlier Screening

MW-D2



n = 16

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

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

High cutoff = 0.01551, low cutoff = -0.009354, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 6/27/2022 5:10 PM View: Sanitas_Statistics Sampling Events 1 th

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

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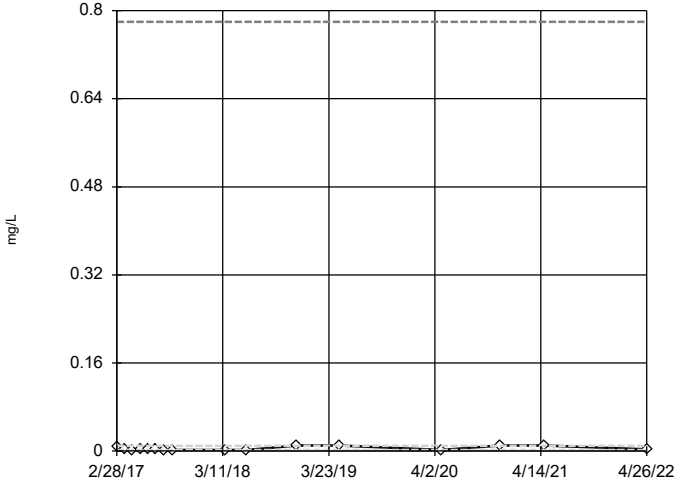
Tukey's Outlier Screening

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).

High cutoff = 0.7798, low cutoff = 0.00002586, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 6/27/2022 5:10 PM View: Sanitas_Statistics Sampling Events 1 th

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

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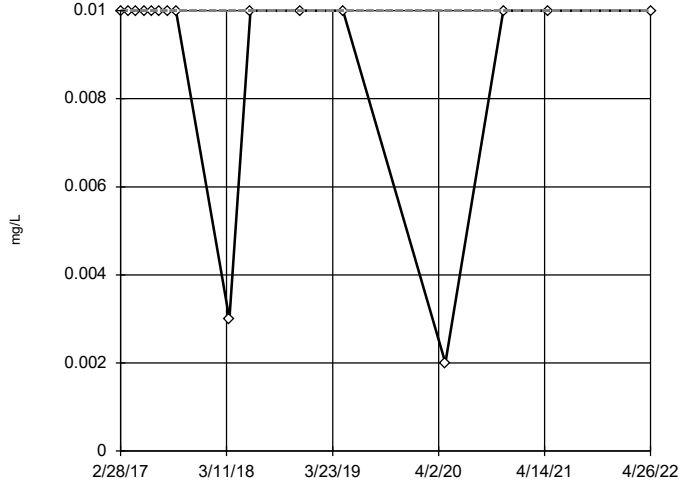
Tukey's Outlier Screening

MW-U1 (bg)



n = 16

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

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

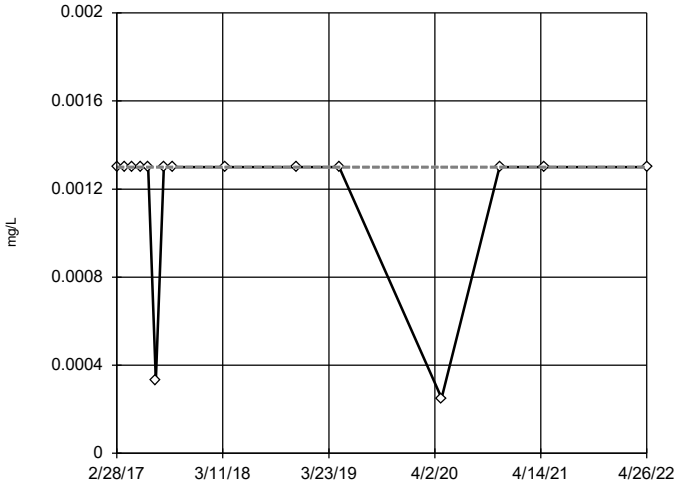
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 6/27/2022 5:10 PM View: Sanitas_Statistics Sampling Events 1 th

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 select-
ed by user.

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

The results were invalid
-
ated, because the
lower
and upper quartiles are
equal.

Constituent: Selenium Analysis Run 6/27/2022 5:12 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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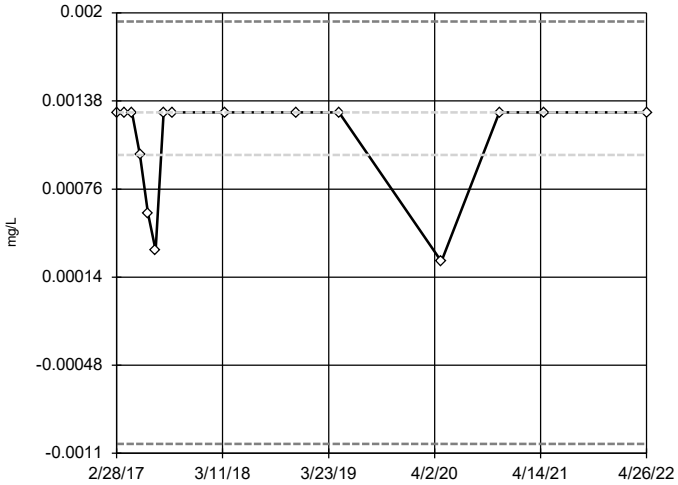
Tukey's Outlier Screening

MW-D2



n = 15

No outliers found.
Tukey's method select-
ed by user.

Data were square trans
-
formed to achieve best
W statistic (graph
shown
in original units).

High cutoff = 0.001939,
low cutoff = -0.001034,
based on IQR multiplier
of 3.

Constituent: Selenium Analysis Run 6/27/2022 5:12 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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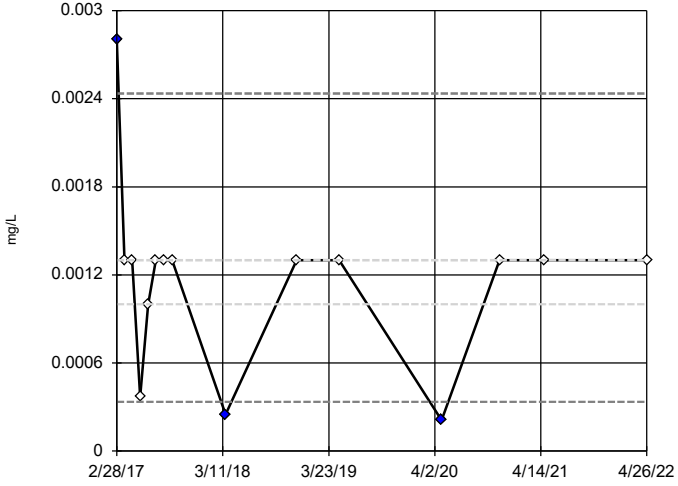
Tukey's Outlier Screening

MW-D3



n = 15

Outliers are drawn as
solid.
Tukey's method select-
ed by user.

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

High cutoff = 0.002436,
low cutoff = 0.0003358,
based on IQR multiplier
of 3.

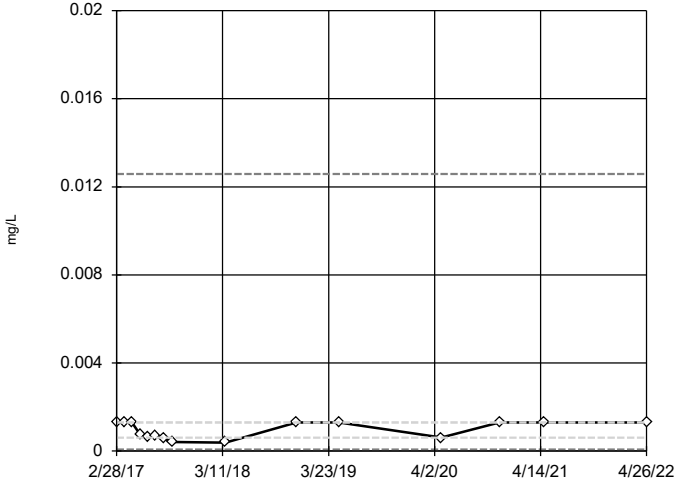
Constituent: Selenium Analysis Run 6/27/2022 5:12 PM View: Sanitas_Statistics Sampling Events 1 throu

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

Tukey's Outlier Screening

MW-U1 (bg)



n = 15

No outliers found.
Tukey's method select-
ed by user.

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

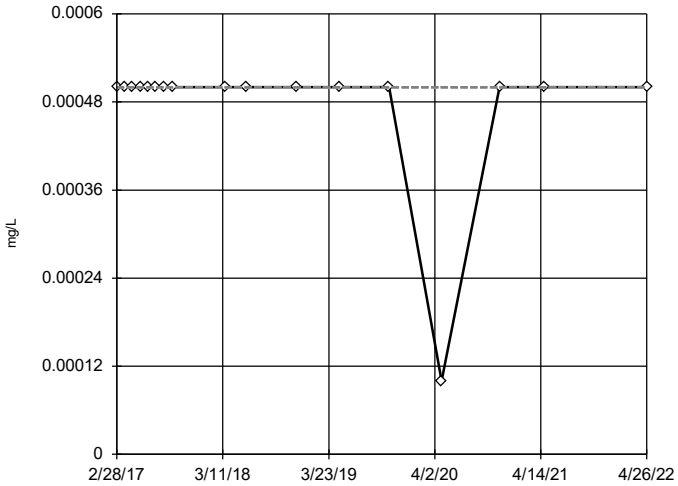
High cutoff = 0.01258,
low cutoff =
0.00006302,
based on IQR multiplier
of 3.

Constituent: Selenium Analysis Run 6/27/2022 5:12 PM View: Sanitas_Statistics Sampling Events 1 throu

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

Tukey's Outlier Screening

MW-D1



n = 17

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 invalid-
ated, because the lower
and upper quartiles are equal.

Constituent: Thallium Analysis Run 6/27/2022 5:13 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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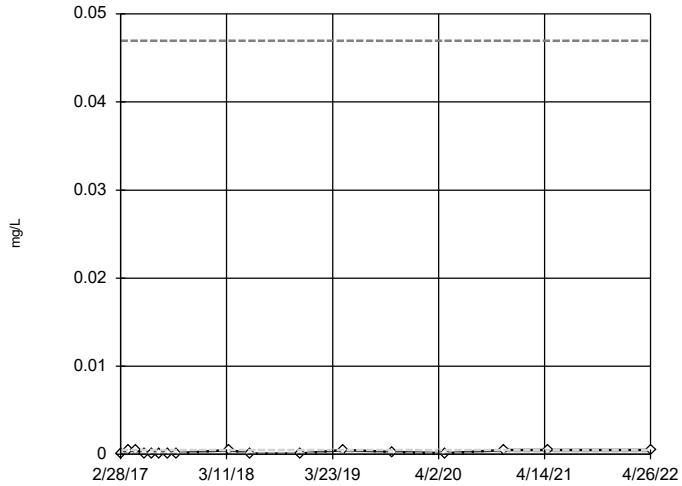
Tukey's Outlier Screening

MW-D2



n = 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).

High cutoff = 0.04696,
low cutoff = 0.0000001171,
based on IQR multiplier of 3.

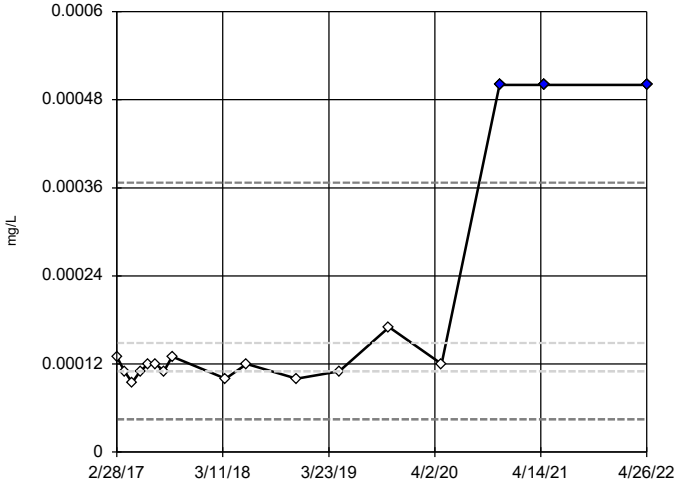
Constituent: Thallium Analysis Run 6/27/2022 5:13 PM View: Sanitas_Statistics Sampling Events 1 throug

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

Tukey's Outlier Screening

MW-D3



n = 17

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 = 0.0003669,
low cutoff = 0.00004456,
based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 6/27/2022 5:13 PM View: Sanitas_Statistics Sampling Events 1 throug

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

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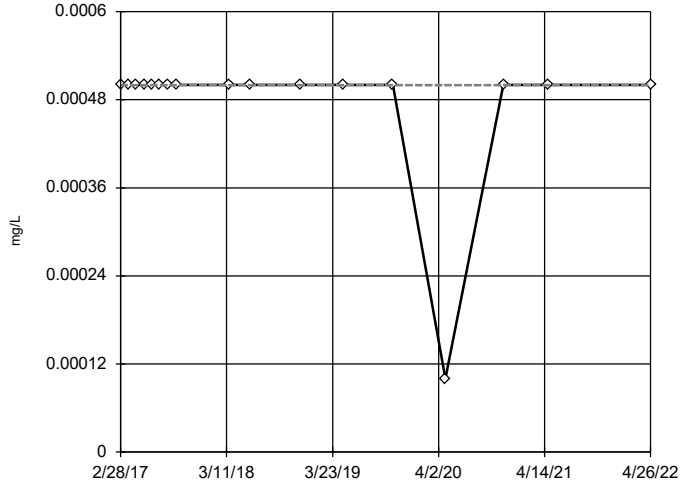
Tukey's Outlier Screening

MW-U1 (bg)



n = 17

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

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

The results were invalid-
ated, because the lower
and upper quartiles are equal.

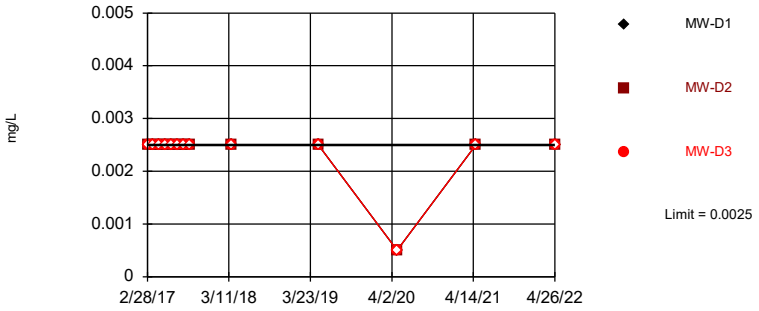
Constituent: Thallium Analysis Run 6/27/2022 5:13 PM View: Sanitas_Statistics Sampling Events 1 throug

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. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

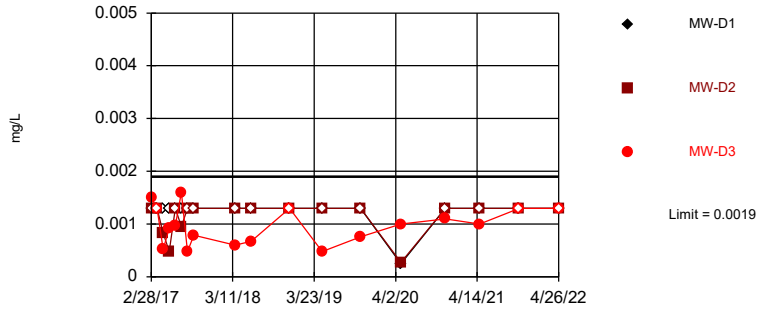
Constituent: Antimony Analysis Run 6/27/2022 5:16 PM View: Sanitas_Statistics Sampling Events 1 throu

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 18 background values. 77.78% NDs. 77.54% coverage at alpha=0.01; 84.57% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3972.

Constituent: Arsenic Analysis Run 6/27/2022 5:18 PM View: Sanitas_Statistics Sampling Events 1 through

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

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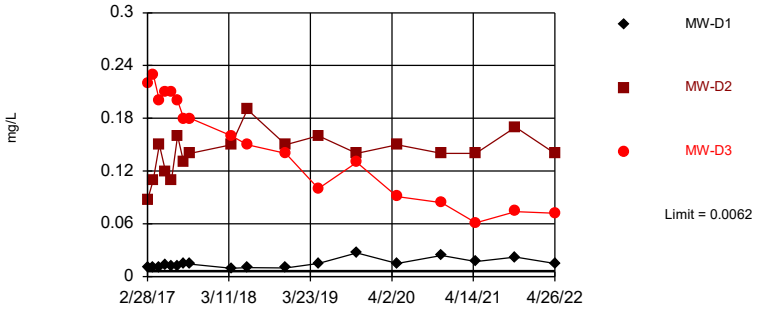
Exceeds Limit: MW-D1, MW-D2, MW-D3

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 18 background values. 77.54% coverage at alpha=0.01; 84.57% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3972.

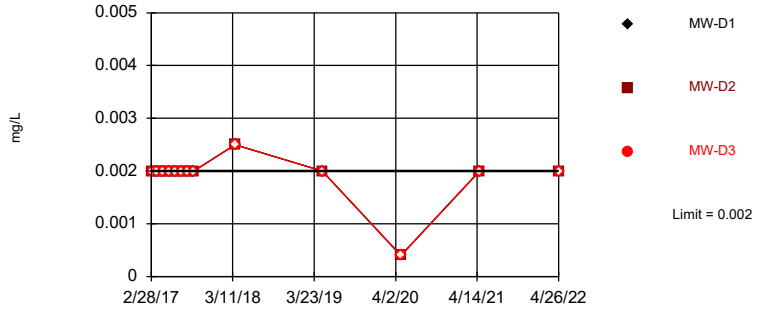
Constituent: Barium Analysis Run 6/27/2022 5:19 PM View: Sanitas_Statistics Sampling Events 1 through

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. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

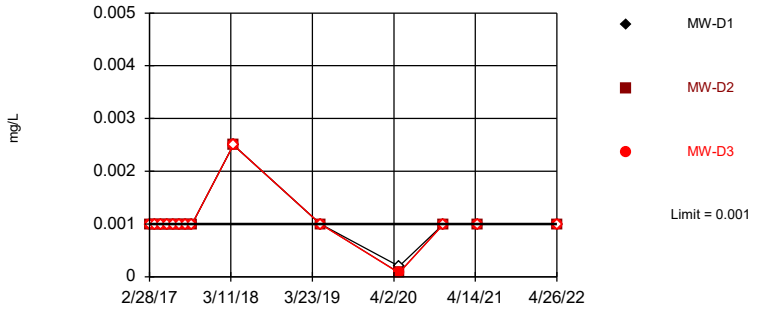
Constituent: Beryllium Analysis Run 6/27/2022 5:19 PM View: Sanitas_Statistics Sampling Events 1 throu

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. 72.07% coverage at alpha=0.01; 80.66% coverage at alpha=0.05; 95.12% coverage at alpha=0.5. Report alpha = 0.4877.

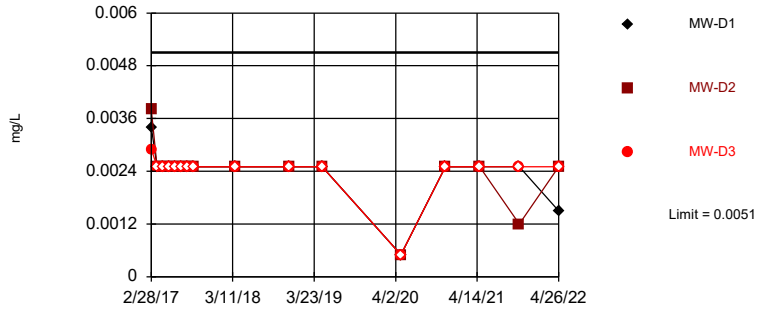
Constituent: Cadmium Analysis Run 6/27/2022 5:20 PM View: Sanitas_Statistics Sampling Events 1 throu

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 16 background values. 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.

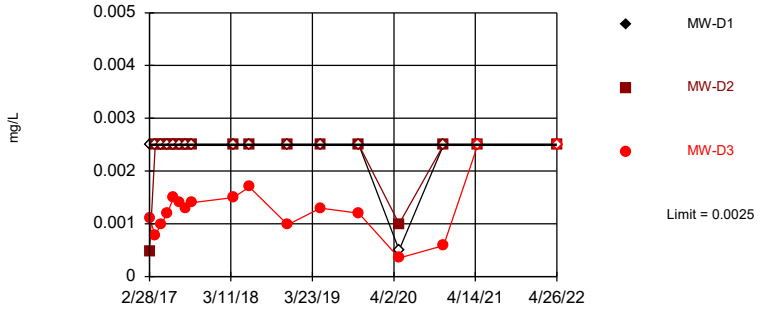
Constituent: Chromium Analysis Run 6/27/2022 5:20 PM View: Sanitas_Statistics Sampling Events 1 thro

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. 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.

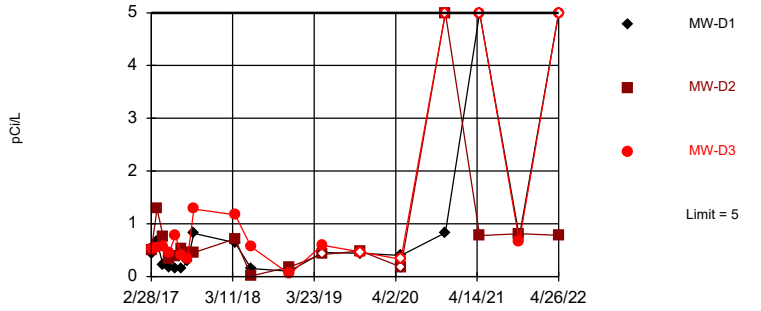
Constituent: Cobalt Analysis Run 6/27/2022 5:20 PM View: Sanitas_Statistics Sampling Events 1 through

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 data required both a power transformation and Cohen's adjustment. Most recent observation is compared with limit. Limit is highest of 18 background values. 22.22% NDs. 77.54% coverage at alpha=0.01; 84.57% coverage at alpha=0.05; 96.29% coverage at alpha=0.5. Report alpha = 0.3972.

Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2022 5:21 PM View: Sanitas_Statistics Sam

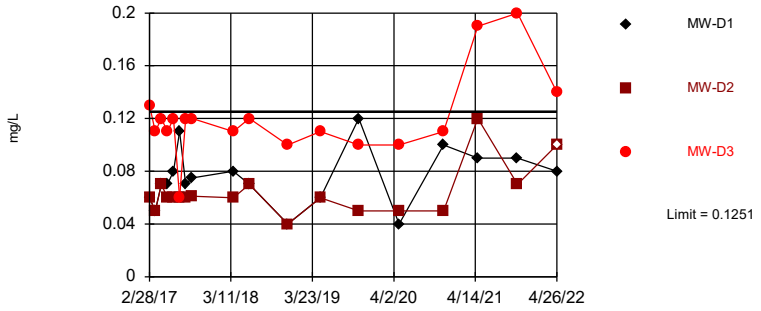
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.

Exceeds Limit: MW-D3

Tolerance Limit

Interwell Parametric



95% coverage. Most recent observation is compared with limit. Background Data Summary (based on square root transformation): Mean=0.2513, Std. Dev.=0.03522, n=18, 11.11% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8756, critical = 0.858. Report alpha = 0.01.

Constituent: Fluoride Analysis Run 6/27/2022 5:22 PM View: Sanitas_Statistics Sampling Events 1 throug

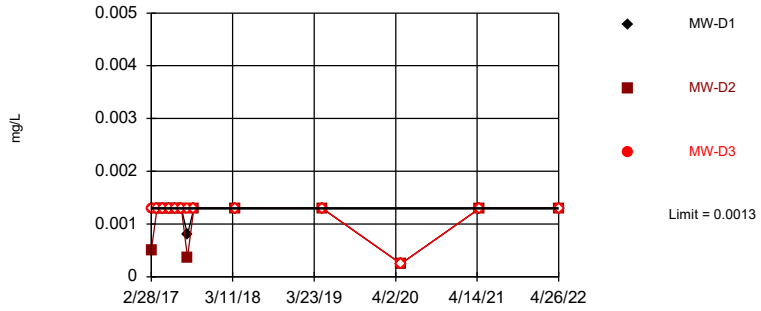
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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 13 background values. 92.31% NDs. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

Constituent: Lead Analysis Run 6/27/2022 5:22 PM View: Sanitas_Statistics Sampling Events 1 through 1

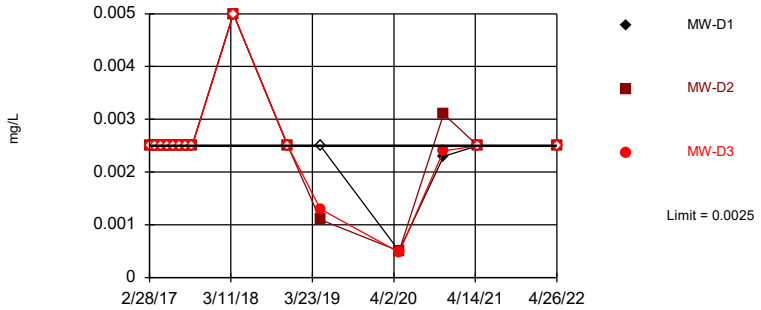
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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: Lithium Analysis Run 6/27/2022 5:22 PM View: Sanitas_Statistics Sampling Events 1 through

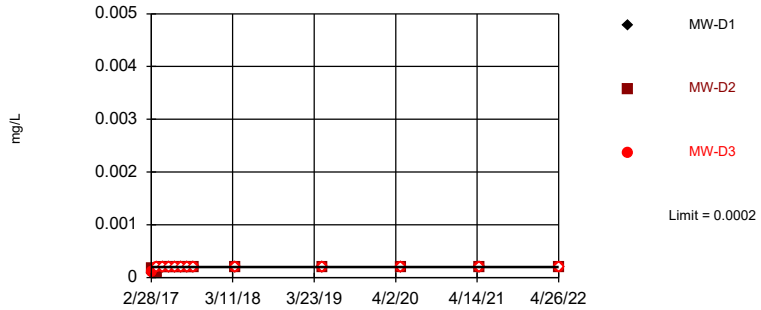
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

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 13 background values. 92.31% NDs. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

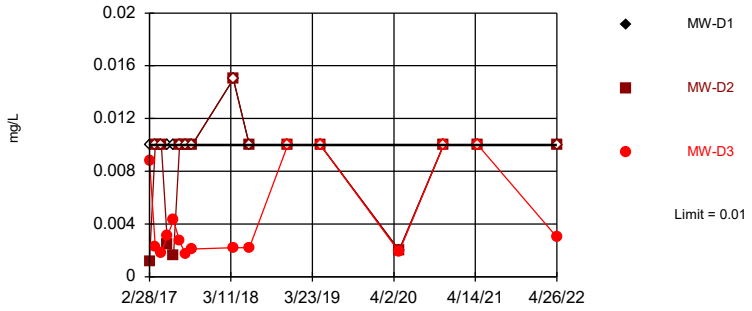
Constituent: Mercury Analysis Run 6/27/2022 5:22 PM View: Sanitas_Statistics Sampling Events 1 throug

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.

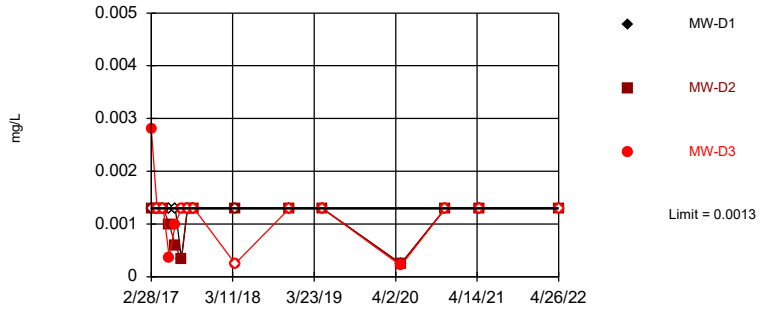
Constituent: Molybdenum Analysis Run 6/27/2022 5:23 PM View: Sanitas_Statistics Sampling Events 1 th

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 15 background values. 53.33% 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.

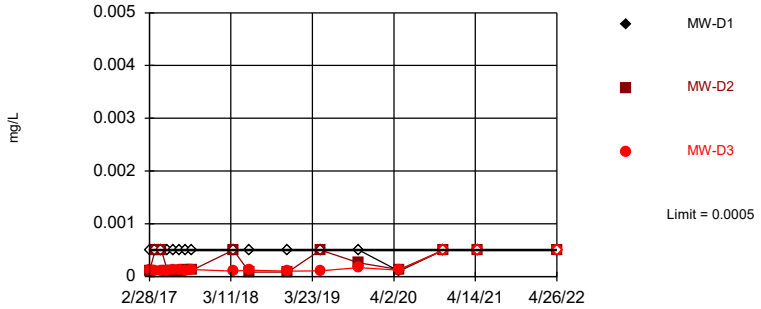
Constituent: Selenium Analysis Run 6/27/2022 5:23 PM View: Sanitas_Statistics Sampling Events 1 throu

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. 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: Thallium Analysis Run 6/27/2022 5:24 PM View: Sanitas_Statistics Sampling Events 1 throug

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

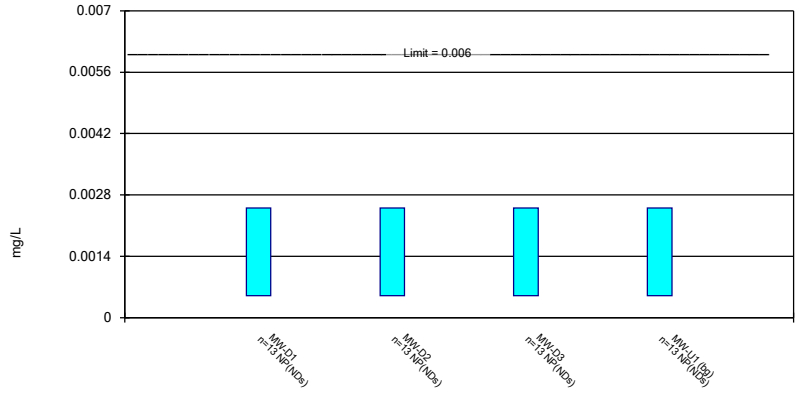
Tolerance Limit

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/29/2022, 2:10 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0025	n/a	n/a	n/a	13	100	n/a	0.5133	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0019	n/a	n/a	n/a	18	77.78	n/a	0.3972	NP Inter(NDs)
Barium (mg/L)	n/a	0.0062	n/a	n/a	n/a	18	0	n/a	0.3972	NP Inter(normal...
Beryllium (mg/L)	n/a	0.002	n/a	n/a	n/a	13	100	n/a	0.5133	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	14	100	n/a	0.4877	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0051	n/a	n/a	n/a	16	0	n/a	0.4401	NP Inter(normal...
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	17	100	n/a	0.4181	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	5	n/a	n/a	n/a	18	22.22	n/a	0.3972	NP Inter(Cohens...
Fluoride (mg/L)	n/a	0.1251	n/a	n/a	n/a	18	11.11	sqrt(x)	0.01	Inter
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	13	92.31	n/a	0.5133	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0025	n/a	n/a	n/a	15	93.33	n/a	0.4633	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	13	92.31	n/a	0.5133	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	16	100	n/a	0.4401	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0013	n/a	n/a	n/a	15	53.33	n/a	0.4633	NP Inter(normal...
Thallium (mg/L)	n/a	0.0005	n/a	n/a	n/a	17	100	n/a	0.4181	NP Inter(NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

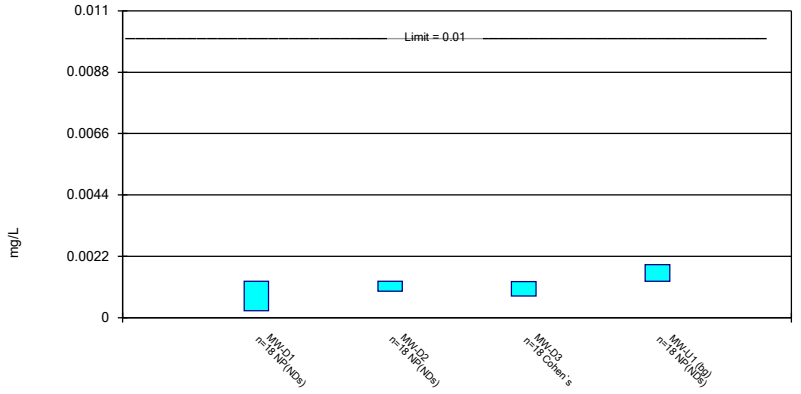


Constituent: Antimony Analysis Run 6/27/2022 6:12 PM View: Sanitas_Statistics Sampling Events 1 throu

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

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.

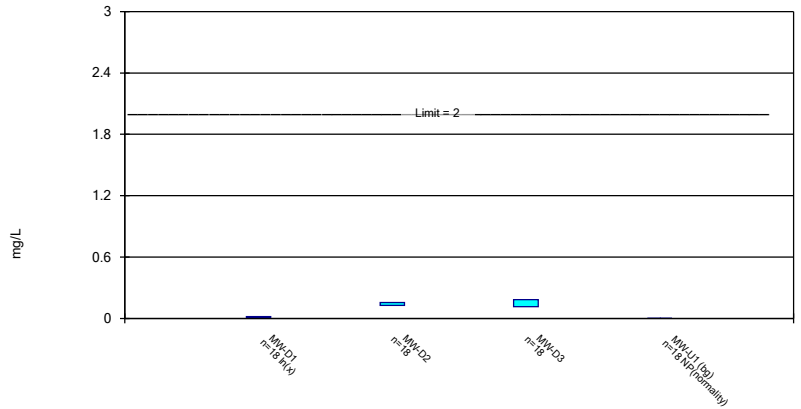


Constituent: Arsenic Analysis Run 6/27/2022 6:12 PM View: Sanitas_Statistics Sampling Events 1 through

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

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.

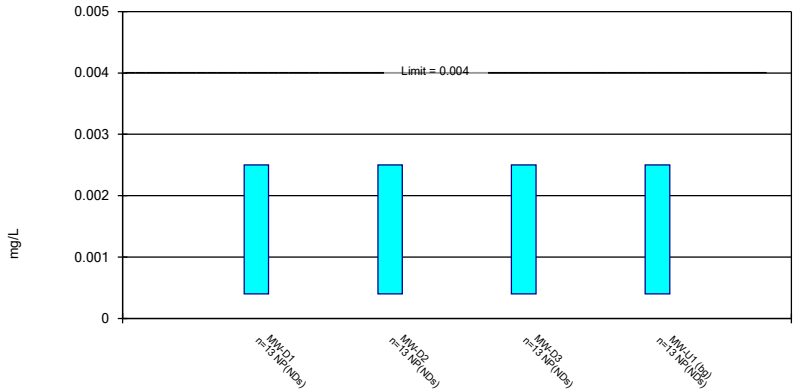


Constituent: Barium Analysis Run 6/27/2022 6:13 PM View: Sanitas_Statistics Sampling Events 1 through

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

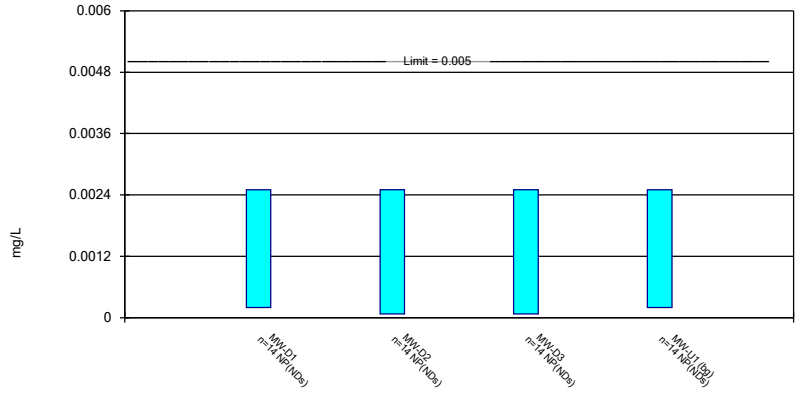


Constituent: Beryllium Analysis Run 6/27/2022 6:13 PM View: Sanitas_Statistics Sampling Events 1 throu

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/29/2022 9:20 AM View: Sanitas_Statistics Sampling Events 1 throu

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

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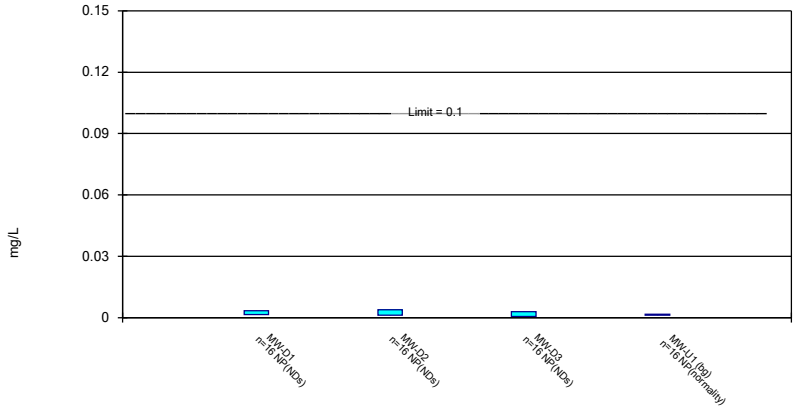
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



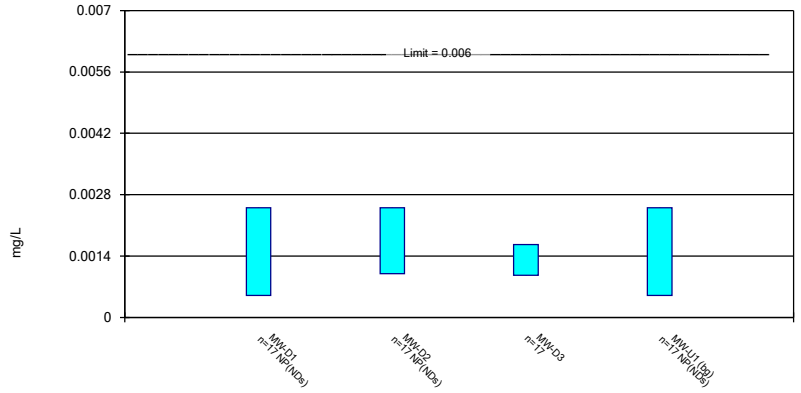
Constituent: Chromium Analysis Run 6/29/2022 9:20 AM View: Sanitas_Statistics Sampling Events 1 thro

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

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.



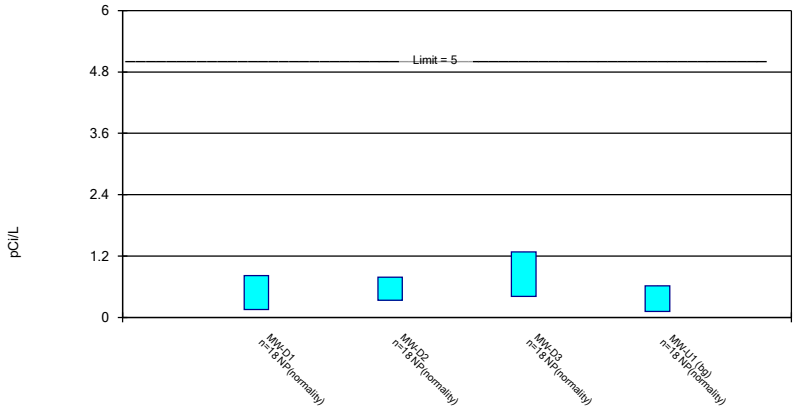
Constituent: Cobalt Analysis Run 6/29/2022 9:20 AM View: Sanitas_Statistics Sampling Events 1 through

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.

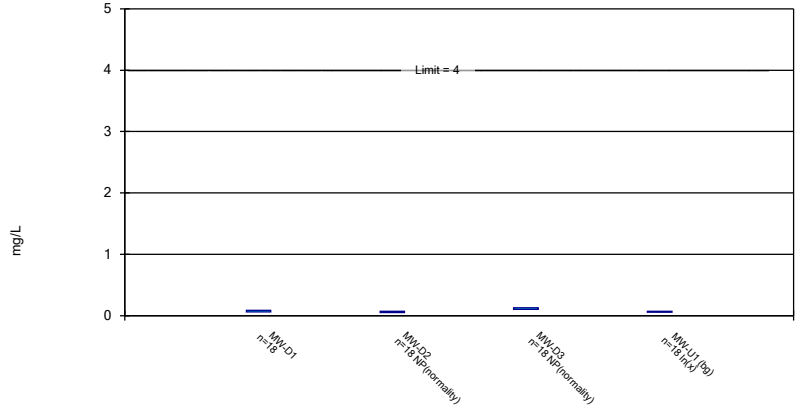


Constituent: Combined Radium 226 + 228 Analysis Run 6/29/2022 9:21 AM View: Sanitas_Statistics Sam

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

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.

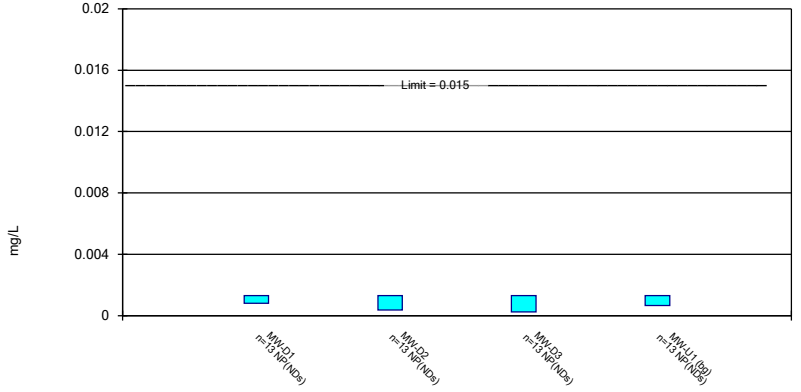


Constituent: Fluoride Analysis Run 6/29/2022 9:21 AM View: Sanitas_Statistics Sampling Events 1 throug

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

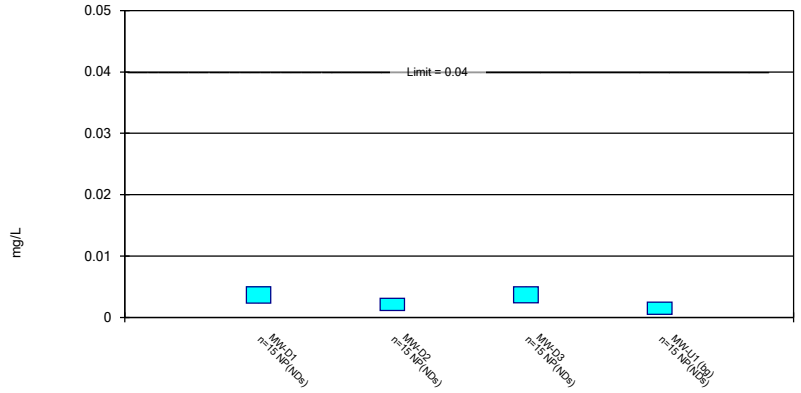


Constituent: Lead Analysis Run 6/29/2022 9:22 AM View: Sanitas_Statistics Sampling Events 1 through 1

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

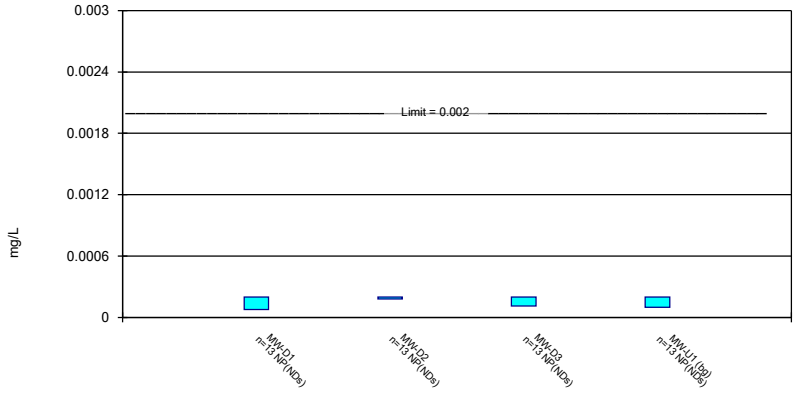


Constituent: Lithium Analysis Run 6/29/2022 9:22 AM View: Sanitas_Statistics Sampling Events 1 through

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

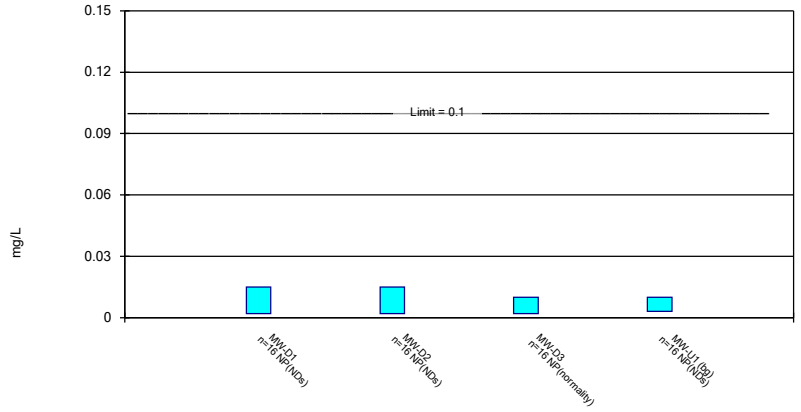


Constituent: Mercury Analysis Run 6/29/2022 9:23 AM View: Sanitas_Statistics Sampling Events 1 throug

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

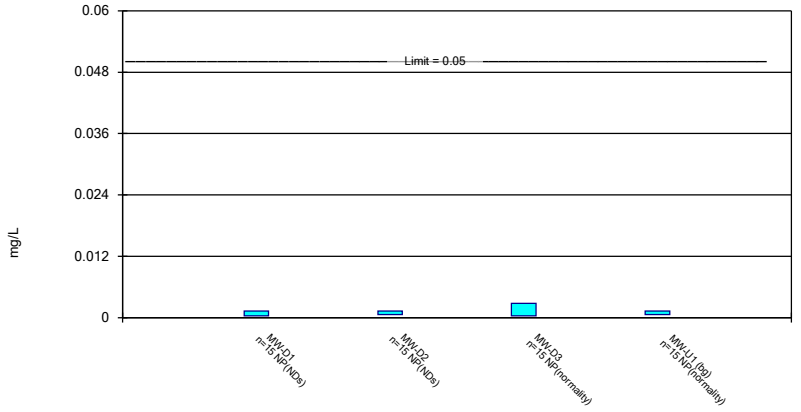


Constituent: Molybdenum Analysis Run 6/29/2022 9:23 AM View: Sanitas_Statistics Sampling Events 1 th

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

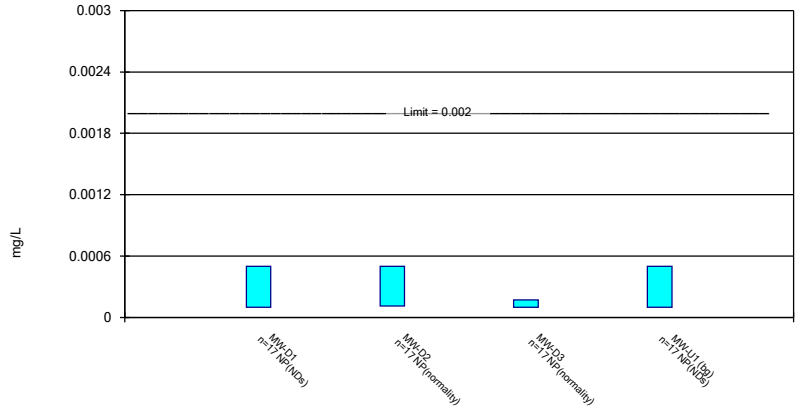


Constituent: Selenium Analysis Run 6/29/2022 9:24 AM View: Sanitas_Statistics Sampling Events 1 throu

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/29/2022 9:24 AM View: Sanitas_Statistics Sampling Events 1 throug

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

Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/29/2022, 9:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-D1	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D2	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D3	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D1	0.0013	0.00025	0.01	n/a	No	18	0.001242	0.0002475	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D2	0.0013	0.00095	0.01	n/a	No	18	0.001152	0.0003144	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D3	0.001296	0.000776	0.01	n/a	No	18	0.000...	0.0003531	22.22	Cohen`s	No	0.01	Param.
Arsenic (mg/L)	MW-U1 (bg)	0.0019	0.0013	0.01	n/a	No	18	0.001223	0.0003663	77.78	Cohen`s	No	0.01	NP (NDs)
Barium (mg/L)	MW-D1	0.01668	0.01145	2	n/a	No	18	0.01452	0.00507	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MW-D2	0.1554	0.1265	2	n/a	No	18	0.1409	0.02388	0	None	No	0.01	Param.
Barium (mg/L)	MW-D3	0.1843	0.1148	2	n/a	No	18	0.1496	0.0574	0	None	No	0.01	Param.
Barium (mg/L)	MW-U1 (bg)	0.0026	0.002	2	n/a	No	18	0.002528	0.001004	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-D1	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D2	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D3	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-U1 (bg)	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D1	0.0025	0.0002	0.005	n/a	No	14	0.00105	0.0004686	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D2	0.0025	0.000075	0.005	n/a	No	14	0.001041	0.0004869	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D3	0.0025	0.000071	0.005	n/a	No	14	0.001041	0.0004875	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-U1 (bg)	0.0025	0.0002	0.005	n/a	No	14	0.00105	0.0004686	100	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D1	0.0034	0.0015	0.1	n/a	No	16	0.002369	0.0006074	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D2	0.0038	0.0012	0.1	n/a	No	16	0.002375	0.0006894	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D3	0.0029	0.0005	0.1	n/a	No	16	0.0024	0.0005164	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-U1 (bg)	0.0017	0.0012	0.1	n/a	No	16	0.001688	0.0009749	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-D1	0.0025	0.0005	0.006	n/a	No	17	0.002382	0.0004851	100	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D2	0.0025	0.001	0.006	n/a	No	17	0.002292	0.0005936	88.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D3	0.001665	0.0009601	0.006	n/a	No	17	0.001312	0.0005622	11.76	None	No	0.01	Param.
Cobalt (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.006	n/a	No	17	0.002265	0.0006642	100	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MW-D1	0.816	0.156	5	n/a	No	18	0.9254	1.502	22.22	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-D2	0.783	0.333	5	n/a	No	18	0.7815	1.092	22.22	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-D3	1.28	0.409	5	n/a	No	18	1.32	1.717	27.78	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	0.614	0.117	5	n/a	No	18	0.5585	1.134	22.22	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D1	0.08842	0.06213	4	n/a	No	18	0.07528	0.02173	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-D2	0.07	0.05	4	n/a	No	18	0.06394	0.01882	5.556	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D3	0.13	0.1	4	n/a	No	18	0.1206	0.03171	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-U1 (bg)	0.07317	0.05261	4	n/a	No	18	0.06433	0.01858	11.11	None	ln(x)	0.01	Param.
Lead (mg/L)	MW-D1	0.0013	0.0008	0.015	n/a	No	13	0.001181	0.0003119	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D2	0.0013	0.00037	0.015	n/a	No	13	0.001086	0.0004096	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D3	0.0013	0.00025	0.015	n/a	No	13	0.001219	0.0002912	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-U1 (bg)	0.0013	0.00065	0.015	n/a	No	13	0.001169	0.0003295	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D1	0.005	0.0023	0.04	n/a	No	15	0.00252	0.0008571	93.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D2	0.0031	0.0011	0.04	n/a	No	15	0.00248	0.0009473	86.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D3	0.005	0.0024	0.04	n/a	No	15	0.002445	0.0009156	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.04	n/a	No	15	0.002223	0.0007325	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D1	0.0002	0.000077	0.002	n/a	No	13	0.000...	0.0000...	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D2	0.0002	0.00018	0.002	n/a	No	13	0.000...	0.0000...	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D3	0.0002	0.00011	0.002	n/a	No	13	0.000...	0.0000...	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-U1 (bg)	0.0002	0.000099	0.002	n/a	No	13	0.000...	0.0000...	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D1	0.015	0.002	0.1	n/a	No	16	0.009812	0.002428	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D2	0.015	0.002	0.1	n/a	No	16	0.008269	0.004044	81.25	None	No	0.01	NP (NDs)

Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/29/2022, 9:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	MW-D3	0.01	0.0019	0.1	n/a	No	16	0.004756	0.00355	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-U1 (bg)	0.01	0.003	0.1	n/a	No	16	0.009062	0.002568	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D1	0.0013	0.00033	0.05	n/a	No	15	0.001165	0.0003557	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D2	0.0013	0.00059	0.05	n/a	No	15	0.001098	0.0003804	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D3	0.0028	0.00037	0.05	n/a	No	15	0.001175	0.0006131	73.33	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-U1 (bg)	0.0013	0.00058	0.05	n/a	No	15	0.000...	0.0003819	53.33	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D1	0.0005	0.0001	0.002	n/a	No	17	0.000...	0.0000...	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-D2	0.0005	0.00011	0.002	n/a	No	17	0.000...	0.0001939	41.18	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D3	0.00017	0.0001	0.002	n/a	No	17	0.000185	0.0001512	17.65	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-U1 (bg)	0.0005	0.0001	0.002	n/a	No	17	0.000...	0.0000...	100	None	No	0.01	NP (NDs)

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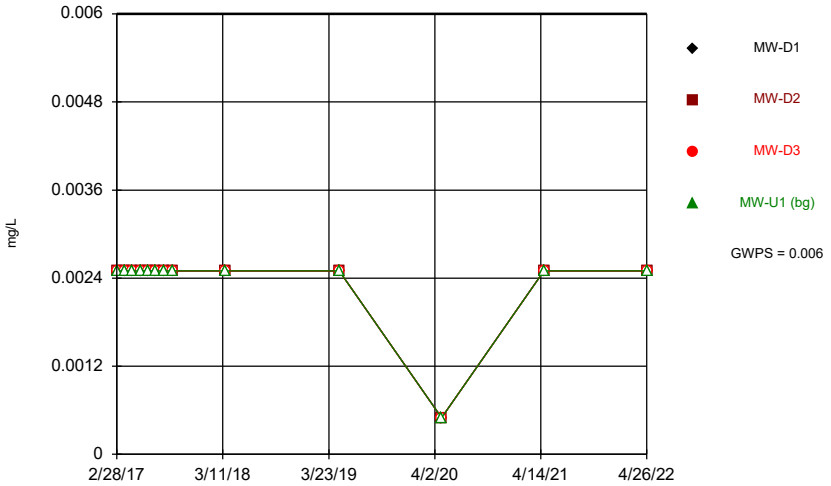
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 6/29/2022 9:34 AM View: Sanitas_Statistics Sampling Events 1 throu

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

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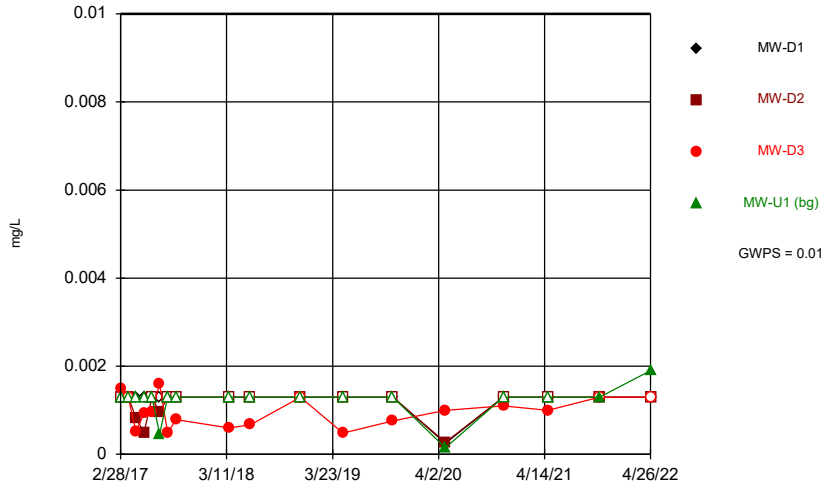
Time Series



Constituent: Arsenic Analysis Run 6/29/2022 9:37 AM View: Sanitas_Statistics Sampling Events 1 through

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

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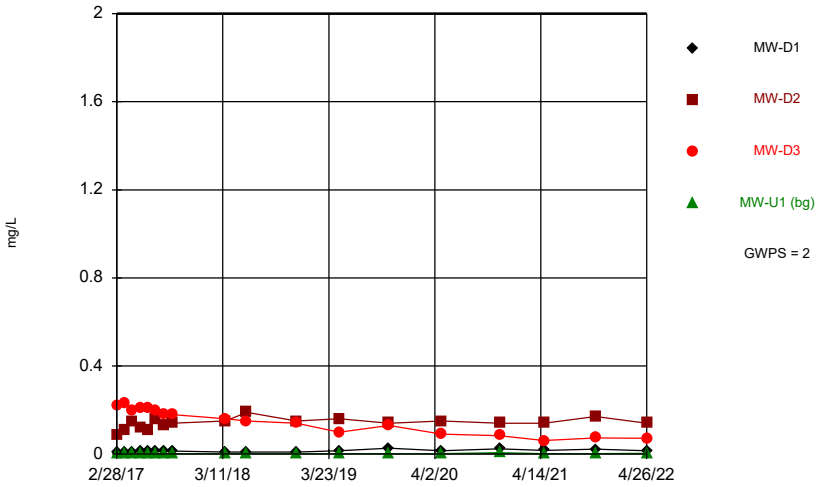
Time Series



Constituent: Barium Analysis Run 6/29/2022 9:37 AM View: Sanitas_Statistics Sampling Events 1 through

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

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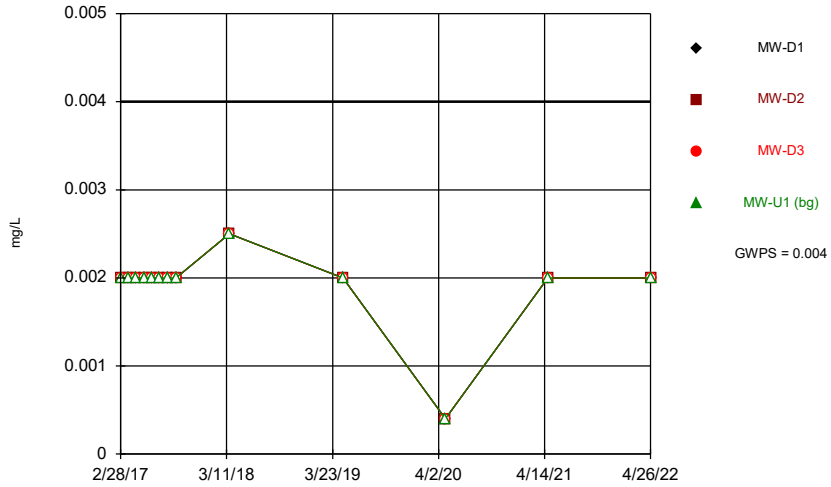
Time Series



Constituent: Beryllium Analysis Run 6/29/2022 9:38 AM View: Sanitas_Statistics Sampling Events 1 throu

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

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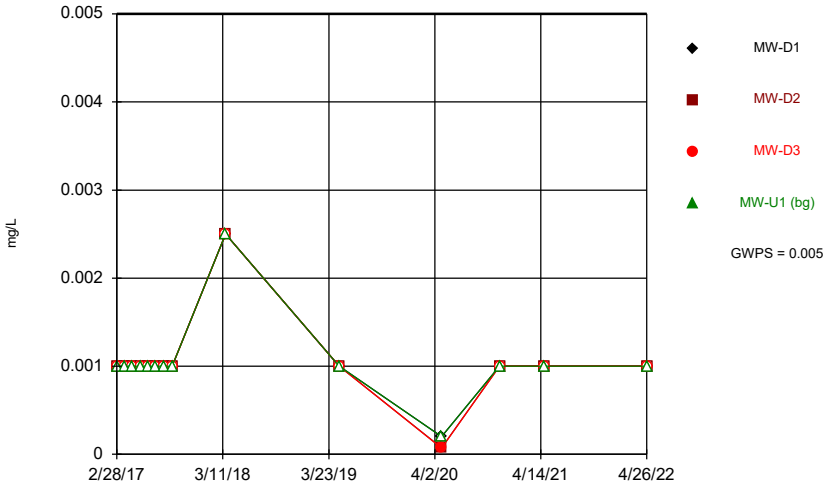
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 6/29/2022 9:40 AM View: Sanitas_Statistics Sampling Events 1 throu

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

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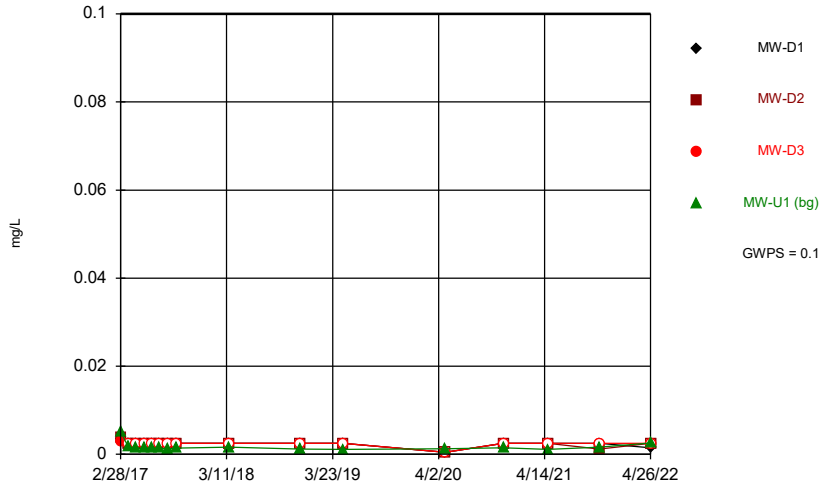
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 6/29/2022 9:40 AM View: Sanitas_Statistics Sampling Events 1 thro

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

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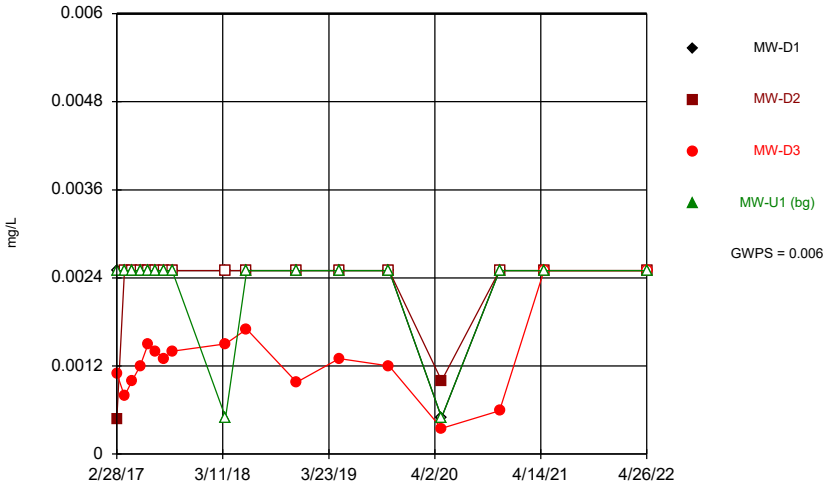
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 6/29/2022 9:41 AM View: Sanitas_Statistics Sampling Events 1 through

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

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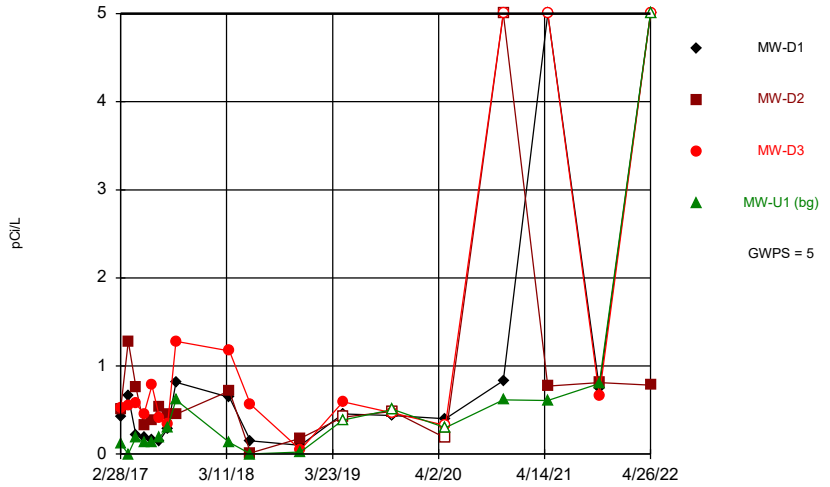
Hollow symbols indicate censored values.

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/29/2022 9:41 AM View: Sanitas_Statistics Sam

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

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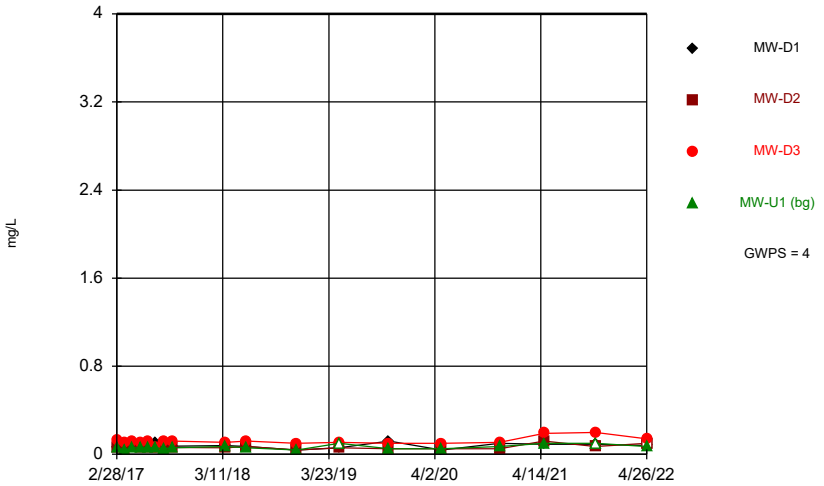
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 6/29/2022 9:42 AM View: Sanitas_Statistics Sampling Events 1 throug

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

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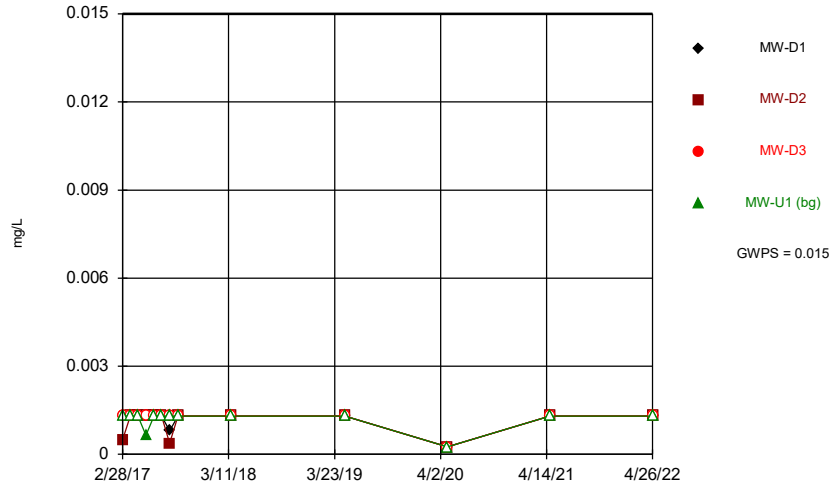
Time Series



Constituent: Lead Analysis Run 6/29/2022 9:44 AM View: Sanitas_Statistics Sampling Events 1 through 1

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

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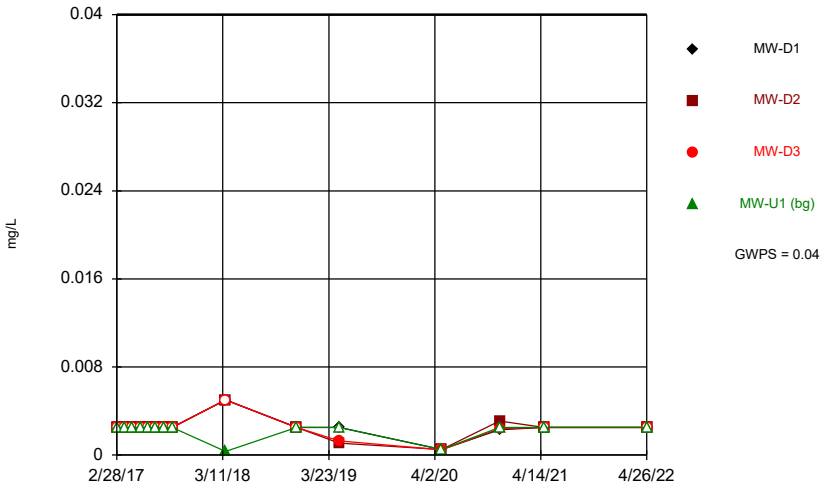
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 6/29/2022 9:44 AM View: Sanitas_Statistics Sampling Events 1 through

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

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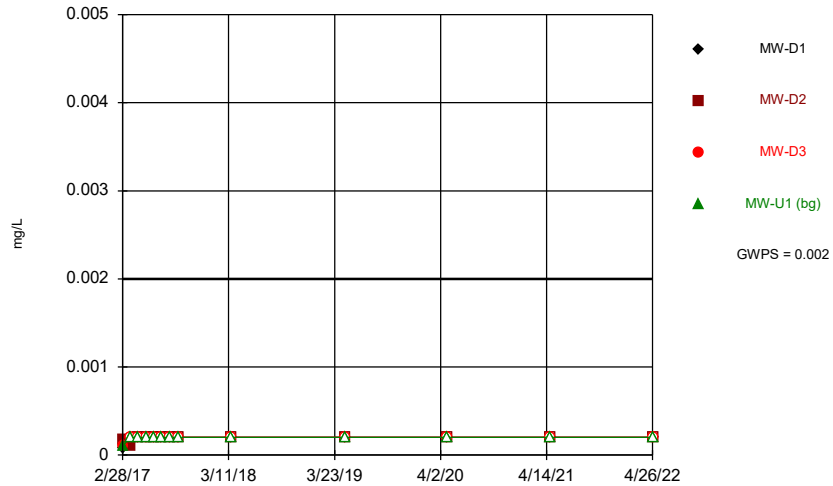
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 6/29/2022 9:44 AM View: Sanitas_Statistics Sampling Events 1 throug

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

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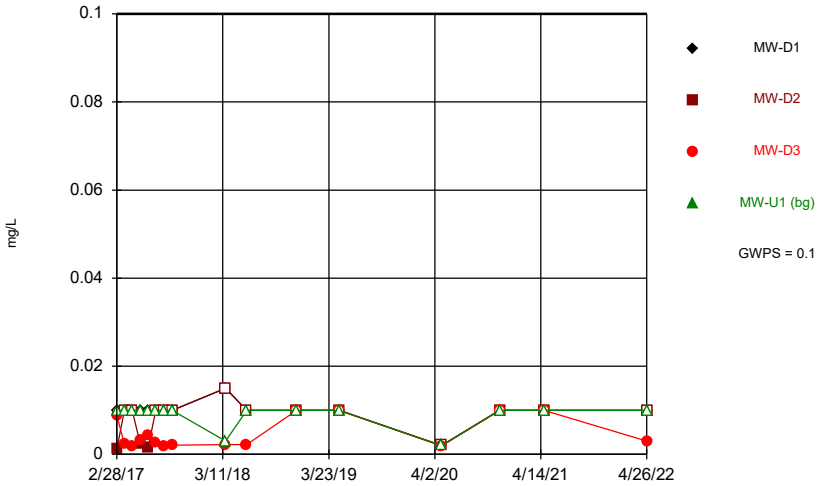
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 6/29/2022 9:45 AM View: Sanitas_Statistics Sampling Events 1 th

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

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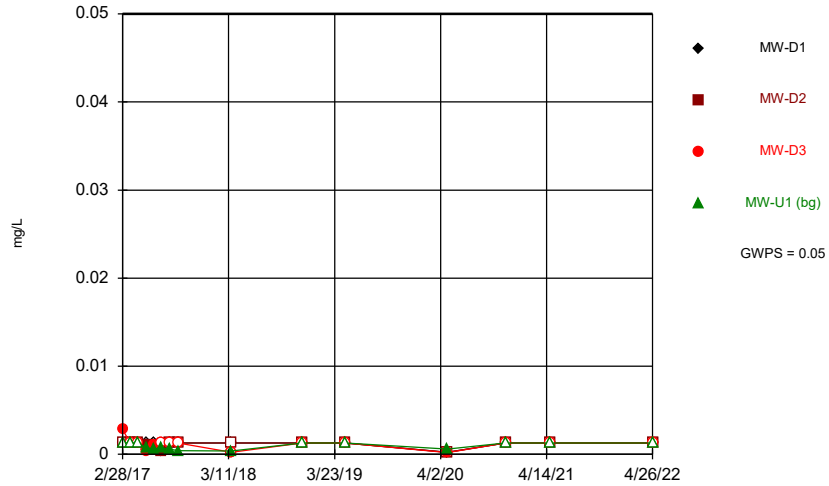
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 6/29/2022 9:45 AM View: Sanitas_Statistics Sampling Events 1 throu

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

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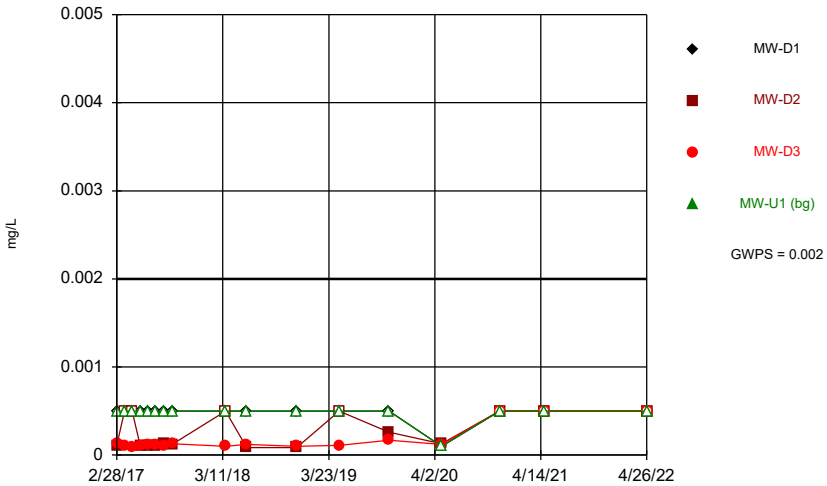
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/29/2022 9:45 AM View: Sanitas_Statistics Sampling Events 1 throug

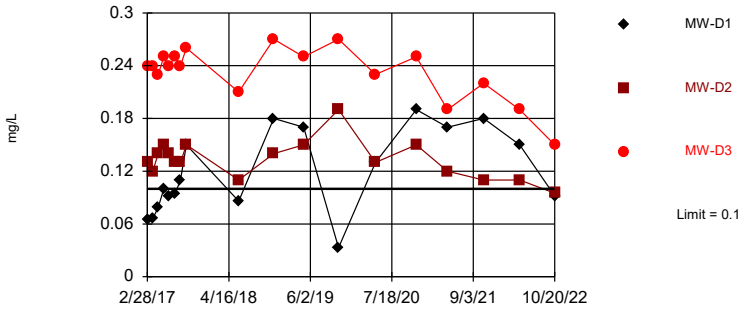
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

October 2022

Exceeds Limit: 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 19 background values. 73.68% NDs. Annual per-constituent alpha = 0.02748. Individual comparison alpha = 0.004634 (1 of 2). Comparing 3 points to limit. Insufficient data to test for seasonality; data will not be deseasonalized.

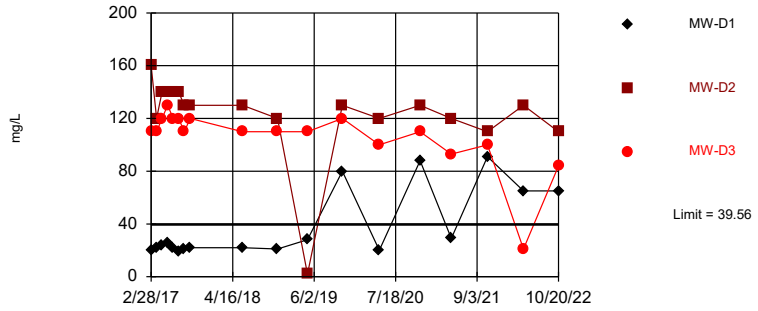
Constituent: Boron Analysis Run 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling Events through 1

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

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

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=34.61, Std. Dev.=2.57, n=18. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.858. Kappa = 1.924 (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.

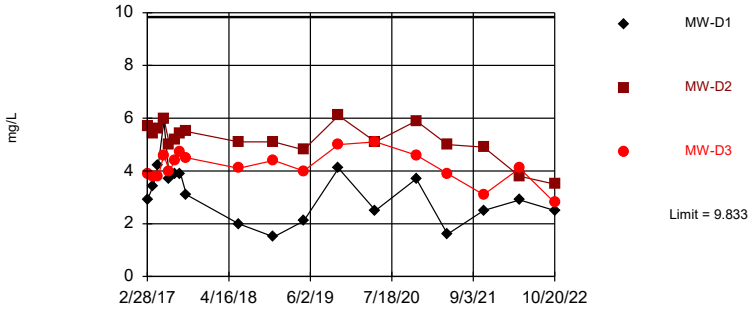
Constituent: Calcium Analysis Run 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling Events through

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

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 18 background values. 5.556% NDs. Annual per-constituent alpha = 0.0304. Individual comparison alpha = 0.005131 (1 of 2). Comparing 3 points to limit. Insufficient data to test for seasonality; data will not be deseasonalized.

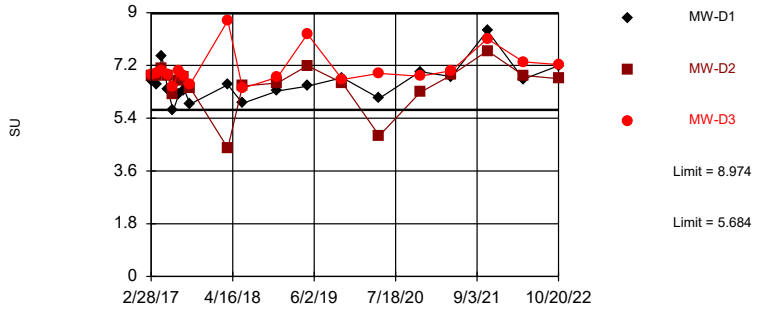
Constituent: Chloride Analysis Run 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling Events throug

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

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary (based on square transformation): Mean=56.42, Std. Dev.=12.65, n=19. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8813, critical = 0.863. Kappa = 1.906 (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 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling Events throug

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

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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

	MW-D1	MW-D3	MW-D2	MW-U1 (bg)
2/28/2017	2.9	3.9	5.7 (F1)	2.2
3/27/2017	3.4	3.8	5.4	2.1
4/24/2017	4.2	3.8	5.6	1.8 (J)
5/22/2017	5.9	4.6	6	2.6
6/19/2017	3.7	4	5	1.9 (J)
7/17/2017	3.9	4.4	5.2	2.2
8/14/2017	3.9	4.7	5.4	2
9/13/2017	3.1	4.5	5.5	2.2
6/5/2018	2	4.1	5.1	1.8 (J)
11/29/2018	1.5 (J)	4.4	5.1	1.7 (J)
4/29/2019	2.1	4	4.8	1.4 (J)
10/23/2019	4.1	5	6.1	9.8 (D)
4/27/2020	2.5	5.1	5.1	2.4
11/19/2020	3.7	4.6	5.9	2.4
4/26/2021	1.6 (J)	3.9	5	9.833 (F1D)
10/26/2021	2.5	3.1	4.9	1.7 (J)
4/26/2022	2.9	4.1	3.8	1.9 (J)
10/19/2022				<2
10/20/2022	2.5	2.8	3.5	

Prediction Limit

Constituent: Field pH (SU) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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

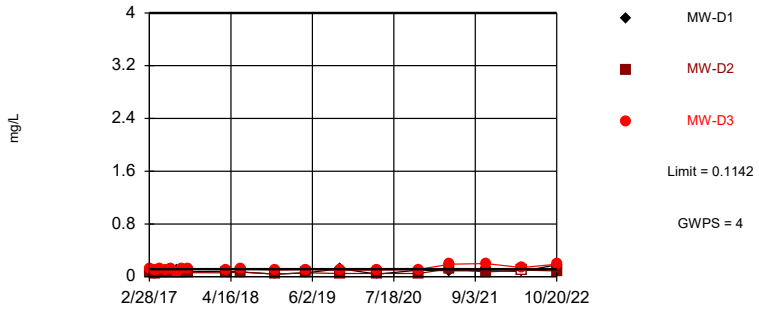
	MW-D1	MW-D2	MW-D3	MW-U1 (bg)
2/28/2017	6.67	6.85	6.87	7.74
3/27/2017	6.55	6.83	6.92	7.78
4/24/2017	7.5	7.1	7.03	7.45
5/22/2017	6.39	6.86	6.88	7.77
6/19/2017	5.66	6.22	6.47	5.07
7/17/2017	6.2	6.68	7.01	6.37
8/14/2017	6.36	6.81	6.86	7.45
9/13/2017	5.88	6.44	6.56	7.63
3/22/2018	6.54	4.38	8.73	7.87
6/5/2018	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	

Hollow symbols indicate censored values.

Exceeds Limit: MW-D1, MW-D3

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.2571, Std. Dev.=0.04242, n=19, 10.53% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8829, critical = 0.863. Kappa = 1.906 (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.

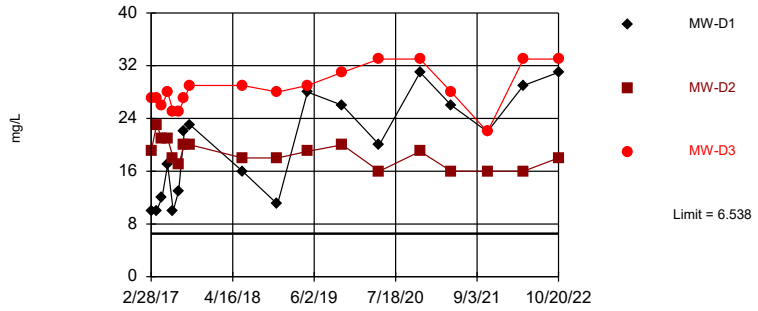
Constituent: Fluoride Analysis Run 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling Events through

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

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

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=1.429, Std. Dev.=0.2293, n=18, 11.11% NDs. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8845, critical = 0.858. Kappa = 1.924 (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.

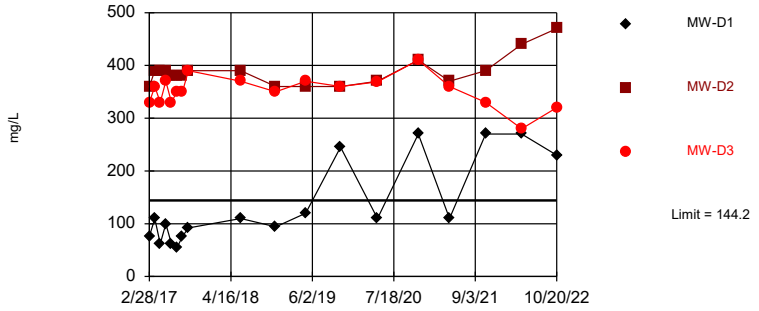
Constituent: Sulfate Analysis Run 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling Events through

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

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

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=99.33, Std. Dev.=23.3, n=18. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.858. Kappa = 1.924 (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 1/16/2023 10:59 AM View: Sanitas_Statistics Sampling

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

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/16/2023 11:00 AM View: Sanitas_Statistics Sampling Events through 19

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	

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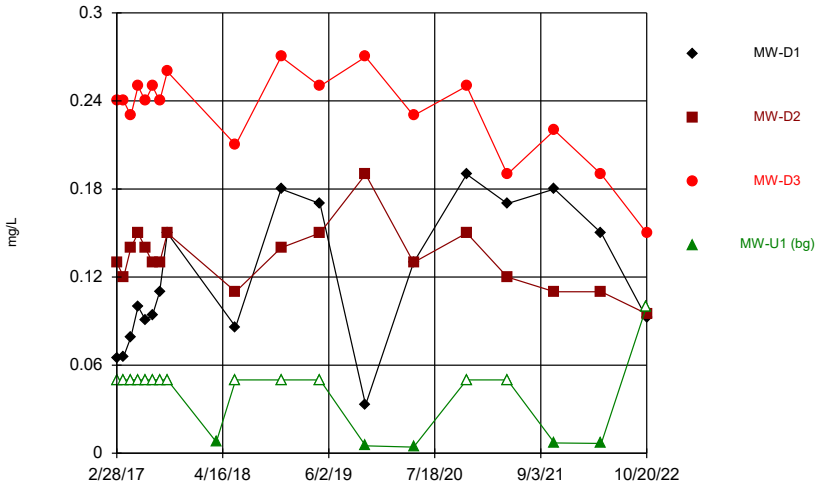
Hollow symbols indicate censored values.

Time Series



Constituent: Boron Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling Events through 1

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

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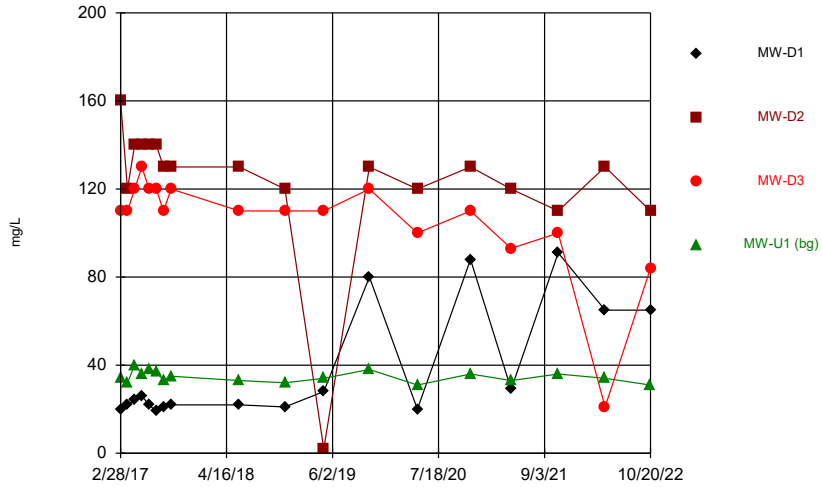
Time Series



Constituent: Calcium Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling Events through

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

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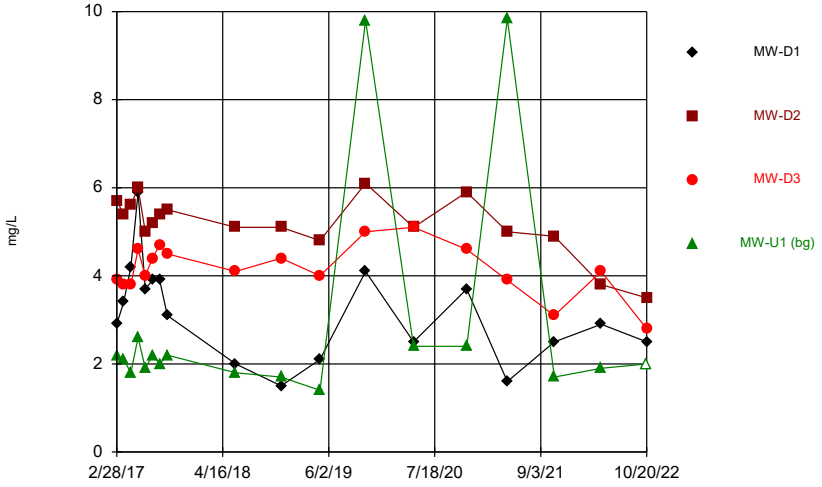
Hollow symbols indicate censored values.

Time Series



Constituent: Chloride Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling Events throug

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

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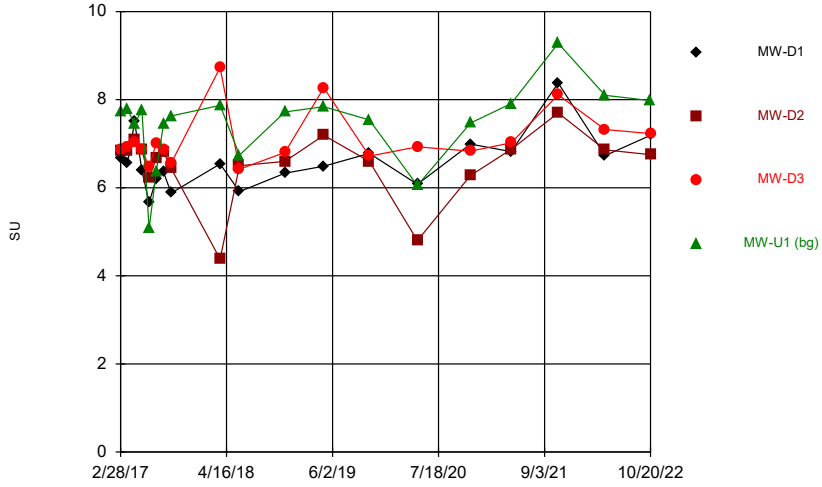
Time Series



Constituent: Field pH Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling Events throug

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

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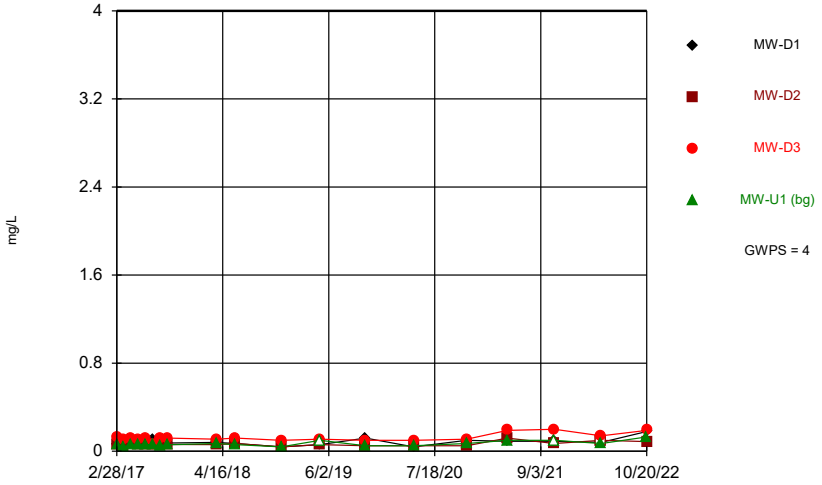
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling Events through

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

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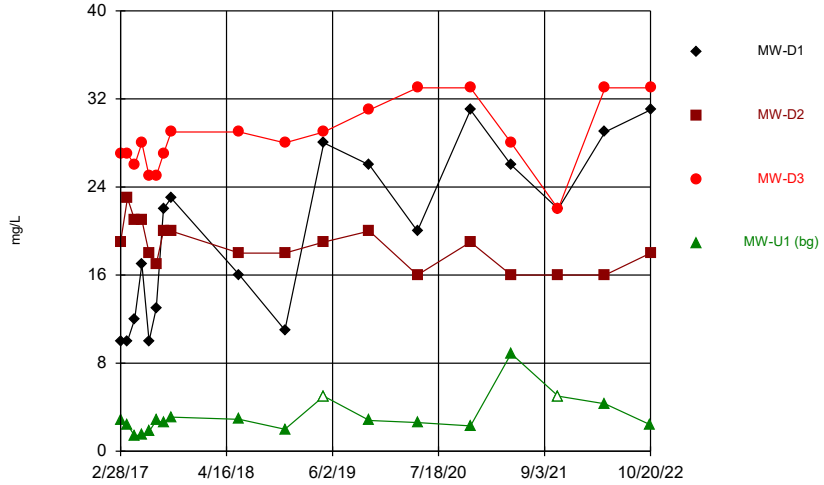
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfate Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling Events through

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

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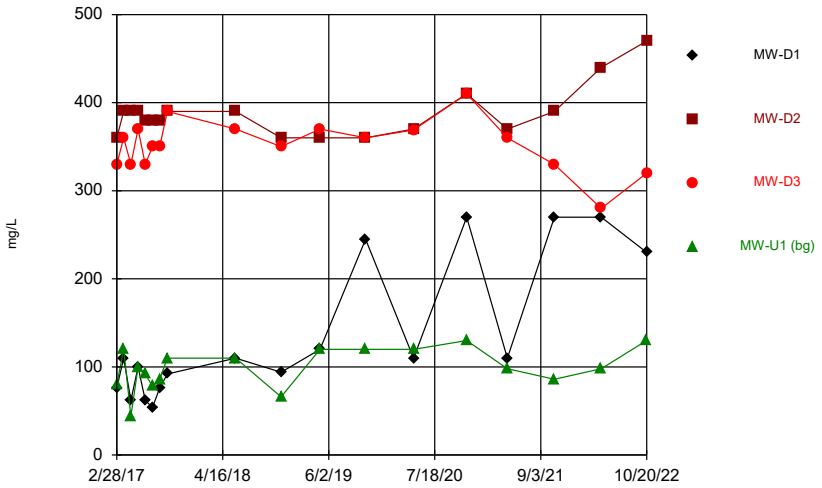
Time Series



Constituent: Total Dissolved Solids Analysis Run 1/16/2023 11:42 AM View: Sanitas_Statistics Sampling

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

Summary Report

Constituent: Antimony Analysis Run 1/16/2023 10:55 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0025
Mean Value = 0.002346
Median Value = 0.0025
Standard Deviation = 0.0005381
Coefficient of Variation = 0.2294
Skewness = -3.175

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175
MW-D2	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175
MW-D3	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175
MW-U1 (bg)	13	13	0.0005	0.0025	0.002346	0.0025	0.0005547	0.2364	-3.175

Summary Report

Constituent: Arsenic Analysis Run 1/16/2023 10:55 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 10/20/2022, a summary of the selected data set:

Observations = 76
ND/Trace = 70
Wells = 4
Minimum Value = 0.00015
Maximum Value = 0.0025
Mean Value = 0.001219
Median Value = 0.0013
Standard Deviation = 0.0004447
Coefficient of Variation = 0.3646
Skewness = 0.4748

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	19	19	0.00025	0.0025	0.001308	0.0013	0.0003757	0.2873	0.5489
MW-D2	19	15	0.00027	0.0025	0.001223	0.0013	0.0004348	0.3556	0.511
MW-D3	19	5	0.00048	0.0025	0.001057	0.001	0.0004897	0.4631	1.246
MW-U1 (bg)	19	15	0.00015	0.0025	0.00129	0.0013	0.000461	0.3574	-0.0319

Summary Report

Constituent: Barium Analysis Run 1/16/2023 10:55 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 10/20/2022, a summary of the selected data set:

Observations = 76
ND/Trace = 12
Wells = 4
Minimum Value = 0.0018
Maximum Value = 0.23
Mean Value = 0.07599
Median Value = 0.044
Standard Deviation = 0.07474
Coefficient of Variation = 0.9836
Skewness = 0.4538

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	19	0	0.0095	0.027	0.0147	0.014	0.004992	0.3396	1.143
MW-D2	19	0	0.087	0.19	0.1414	0.14	0.0233	0.1647	-0.3637
MW-D3	19	0	0.061	0.23	0.1453	0.15	0.05877	0.4044	-0.087
MW-U1 (bg)	19	0	0.0018	0.0062	0.002521	0.0022	0.0009761	0.3872	3.025

Summary Report

Constituent: Beryllium Analysis Run 1/16/2023 10:55 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.0004
Maximum Value = 0.0025
Mean Value = 0.001915
Median Value = 0.002
Standard Deviation = 0.0004616
Coefficient of Variation = 0.241
Skewness = -2.635

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635
MW-D2	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635
MW-D3	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635
MW-U1 (bg)	13	13	0.0004	0.0025	0.001915	0.002	0.0004758	0.2484	-2.635

Summary Report

Constituent: Cadmium Analysis Run 1/16/2023 10:55 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 56
ND/Trace = 56
Wells = 4
Minimum Value = 0.000071
Maximum Value = 0.0025
Mean Value = 0.001045
Median Value = 0.001
Standard Deviation = 0.0004648
Coefficient of Variation = 0.4446
Skewness = 1.691

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	14	14	0.0002	0.0025	0.00105	0.001	0.0004686	0.4463	1.887
MW-D2	14	13	0.000075	0.0025	0.001041	0.001	0.0004869	0.4677	1.523
MW-D3	14	13	0.000071	0.0025	0.001041	0.001	0.0004875	0.4684	1.512
MW-U1 (bg)	14	14	0.0002	0.0025	0.00105	0.001	0.0004686	0.4463	1.887

Summary Report

Constituent: Chromium Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 10/20/2022, a summary of the selected data set:

Observations = 68
ND/Trace = 62
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0051
Mean Value = 0.002318
Median Value = 0.0025
Standard Deviation = 0.0008966
Coefficient of Variation = 0.3869
Skewness = 0.73

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	17	15	0.0005	0.005	0.002524	0.0025	0.0008678	0.3439	0.641
MW-D2	17	14	0.0005	0.0038	0.002388	0.0025	0.0006698	0.2804	-1.194
MW-D3	17	15	0.0005	0.0037	0.002476	0.0025	0.0005911	0.2387	-1.813
MW-U1 (bg)	17	1	0.0011	0.0051	0.001882	0.0014	0.00124	0.6585	2.081

Summary Report

Constituent: Cobalt Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 68
ND/Trace = 67
Wells = 4
Minimum Value = 0.00035
Maximum Value = 0.0025
Mean Value = 0.002063
Median Value = 0.0025
Standard Deviation = 0.0007167
Coefficient of Variation = 0.3474
Skewness = -1.205

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	17	17	0.0005	0.0025	0.002382	0.0025	0.0004851	0.2036	-3.75
MW-D2	17	15	0.00047	0.0025	0.002292	0.0025	0.0005936	0.259	-2.487
MW-D3	17	2	0.00035	0.0025	0.001312	0.0013	0.0005622	0.4284	0.7009
MW-U1 (bg)	17	17	0.0005	0.0025	0.002265	0.0025	0.0006642	0.2933	-2.373

Summary Report

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 10/20/2022, a summary of the selected data set:

Observations = 76
ND/Trace = 20
Wells = 4
Minimum Value = 0
Maximum Value = 1.28
Mean Value = 0.4679
Median Value = 0.4715
Standard Deviation = 0.2756
Coefficient of Variation = 0.589
Skewness = 0.5639

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	19	4	0.0994	0.833	0.4356	0.439	0.2374	0.5451	0.1521
MW-D2	19	5	0.0139	1.28	0.5346	0.506	0.2835	0.5302	0.5968
MW-D3	19	6	0.0501	1.28	0.5745	0.545	0.2755	0.4795	1.066
MW-U1 (bg)	19	5	0	0.801	0.327	0.298	0.2553	0.7807	0.3737

Summary Report

Constituent: Fluoride Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 10/20/2022, a summary of the selected data set:

Observations = 76
ND/Trace = 51
Wells = 4
Minimum Value = 0.04
Maximum Value = 0.2
Mean Value = 0.0845
Median Value = 0.07
Standard Deviation = 0.03637
Coefficient of Variation = 0.4304
Skewness = 1.254

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	19	0	0.04	0.18	0.08079	0.075	0.03198	0.3959	1.539
MW-D2	19	1	0.04	0.12	0.06521	0.06	0.0191	0.293	1.536
MW-D3	19	0	0.06	0.2	0.1242	0.12	0.03469	0.2793	0.9391
MW-U1 (bg)	19	2	0.04	0.13	0.06779	0.06	0.02351	0.3468	1.218

Summary Report

Constituent: Lead Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0013
Mean Value = 0.001164
Median Value = 0.0013
Standard Deviation = 0.0003321
Coefficient of Variation = 0.2853
Skewness = -2.119

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	12	0.00025	0.0013	0.001181	0.0013	0.0003119	0.2642	-2.409
MW-D2	13	11	0.00025	0.0013	0.001086	0.0013	0.0004096	0.3771	-1.333
MW-D3	13	13	0.00025	0.0013	0.001219	0.0013	0.0002912	0.2389	-3.175
MW-U1 (bg)	13	12	0.00025	0.0013	0.001169	0.0013	0.0003295	0.2818	-2.163

Summary Report

Constituent: Lithium Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 60
ND/Trace = 59
Wells = 4
Minimum Value = 0.00034
Maximum Value = 0.005
Mean Value = 0.002417
Median Value = 0.0025
Standard Deviation = 0.0008526
Coefficient of Variation = 0.3528
Skewness = 0.3034

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	15	14	0.0005	0.005	0.00252	0.0025	0.0008571	0.3401	0.822
MW-D2	15	13	0.0005	0.005	0.00248	0.0025	0.0009473	0.382	0.5088
MW-D3	15	12	0.00048	0.005	0.002445	0.0025	0.0009156	0.3744	0.7303
MW-U1 (bg)	15	14	0.00034	0.0025	0.002223	0.0025	0.0007325	0.3296	-2.165

Summary Report

Constituent: Mercury Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 52
ND/Trace = 52
Wells = 4
Minimum Value = 0.000077
Maximum Value = 0.0002
Mean Value = 0.0001918
Median Value = 0.0002
Standard Deviation = 0.00002747
Coefficient of Variation = 0.1432
Skewness = -3.237

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	12	0.000077	0.0002	0.0001905	0.0002	0.00003411	0.179	-3.175
MW-D2	13	11	0.00011	0.0002	0.0001915	0.0002	0.00002512	0.1311	-2.94
MW-D3	13	12	0.00011	0.0002	0.0001931	0.0002	0.00002496	0.1293	-3.175
MW-U1 (bg)	13	12	0.000099	0.0002	0.0001922	0.0002	0.00002801	0.1457	-3.175

Summary Report

Constituent: Molybdenum Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 10/20/2022, a summary of the selected data set:

Observations = 68
ND/Trace = 68
Wells = 4
Minimum Value = 0.0012
Maximum Value = 0.02
Mean Value = 0.008435
Median Value = 0.01
Standard Deviation = 0.004412
Coefficient of Variation = 0.523
Skewness = 0.1648

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	17	17	0.002	0.02	0.01041	0.01	0.003411	0.3276	0.6201
MW-D2	17	14	0.0012	0.02	0.008959	0.01	0.00484	0.5403	0.06074
MW-D3	17	4	0.0017	0.01	0.004665	0.003	0.003458	0.7412	0.8233
MW-U1 (bg)	17	17	0.002	0.02	0.009706	0.01	0.003636	0.3746	0.445

Summary Report

Constituent: Selenium Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 60
ND/Trace = 57
Wells = 4
Minimum Value = 0.00021
Maximum Value = 0.0028
Mean Value = 0.001101
Median Value = 0.0013
Standard Deviation = 0.000442
Coefficient of Variation = 0.4015
Skewness = 0.01535

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	15	14	0.00025	0.0013	0.001165	0.0013	0.0003557	0.3052	-2.165
MW-D2	15	12	0.00025	0.0013	0.001098	0.0013	0.0003804	0.3464	-1.484
MW-D3	15	11	0.00021	0.0028	0.001175	0.0013	0.0006131	0.5216	0.6699
MW-U1 (bg)	15	8	0.00039	0.0013	0.0009647	0.0013	0.0003819	0.3959	-0.3031

Summary Report

Constituent: Thallium Analysis Run 1/16/2023 10:56 AM View: Sanitas_Statistics Sampling Events through 19
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

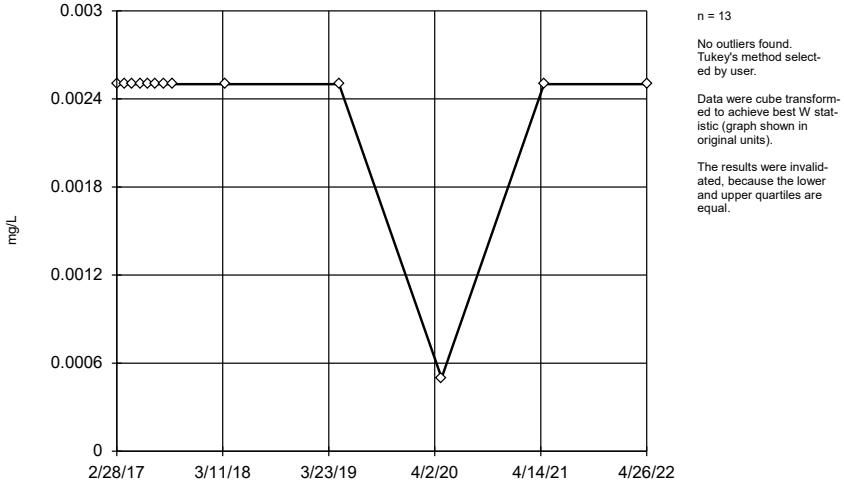
For observations made between 2/28/2017 and 4/26/2022, a summary of the selected data set:

Observations = 68
ND/Trace = 66
Wells = 4
Minimum Value = 0.000085
Maximum Value = 0.0005
Mean Value = 0.0003543
Median Value = 0.0005
Standard Deviation = 0.0001876
Coefficient of Variation = 0.5295
Skewness = -0.5141

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	17	17	0.0001	0.0005	0.0004765	0.0005	0.00009701	0.2036	-3.75
MW-D2	17	7	0.000085	0.0005	0.0002794	0.00013	0.0001939	0.6939	0.2675
MW-D3	17	3	0.000095	0.0005	0.000185	0.00012	0.0001512	0.8174	1.652
MW-U1 (bg)	17	17	0.0001	0.0005	0.0004765	0.0005	0.00009701	0.2036	-3.75

Tukey's Outlier Screening

MW-D1



n = 13

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: Antimony Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events throug

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

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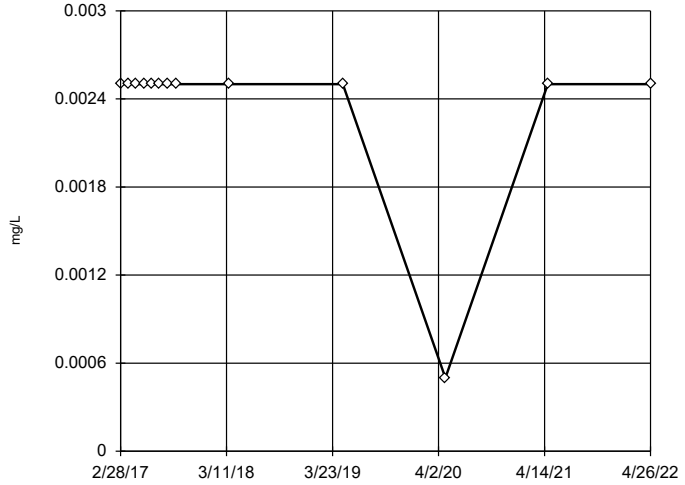
Tukey's Outlier Screening

MW-D2



n = 13

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: Antimony Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events throug

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

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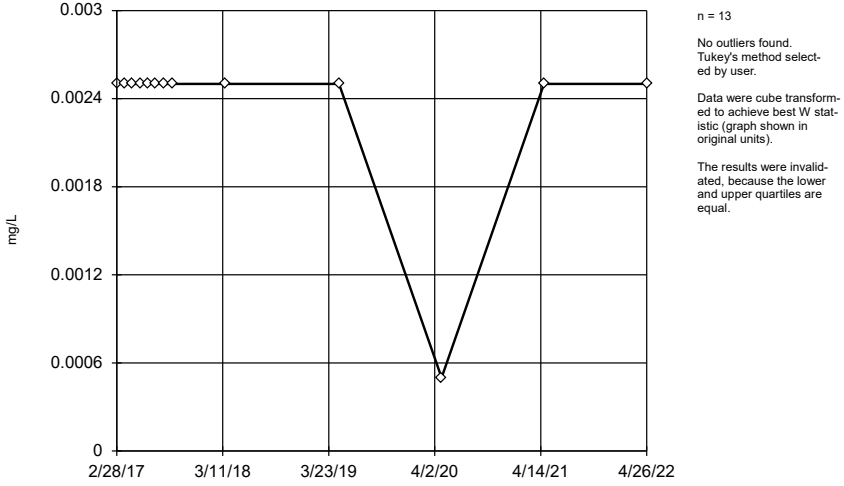
Tukey's Outlier Screening

MW-D3



n = 13

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: Antimony Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events throug

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

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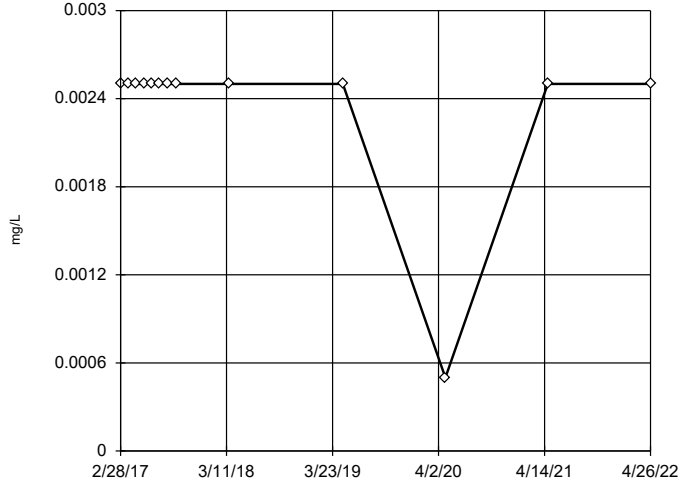
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

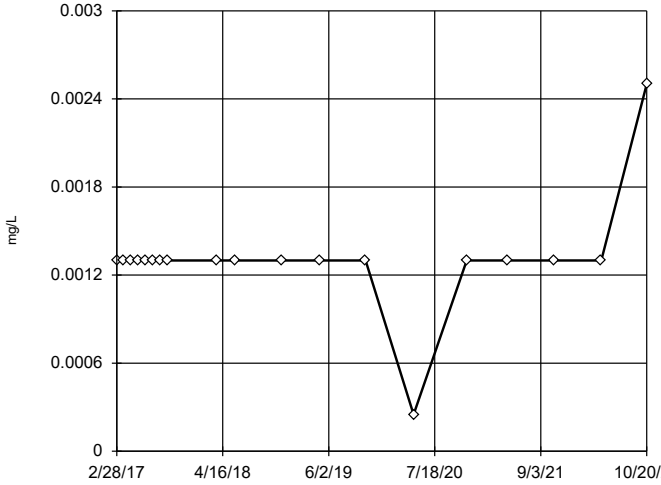
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events throug

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

Tukey's Outlier Screening

MW-D1



n = 19

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 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events through

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

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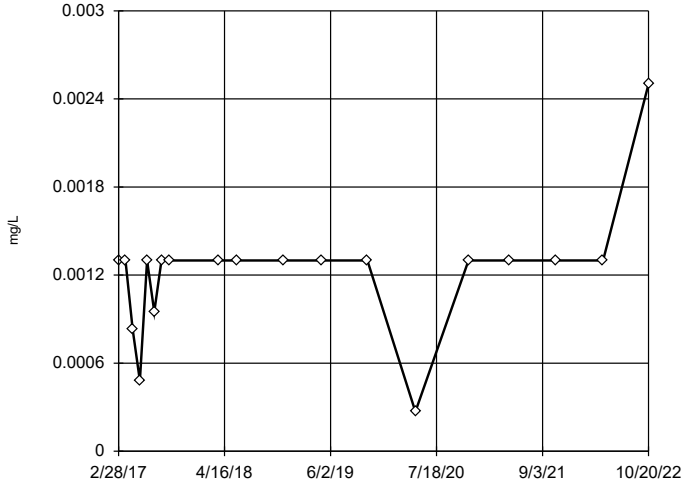
Tukey's Outlier Screening

MW-D2



n = 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: Arsenic Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events through

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

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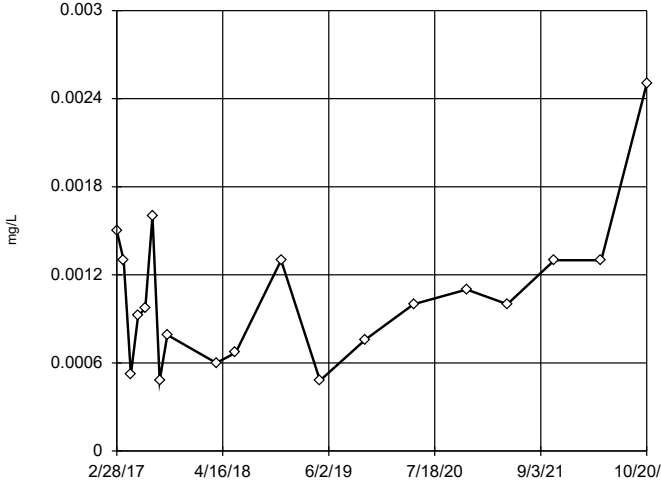
Tukey's Outlier Screening

MW-D3



n = 19

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 = 0.009496, low cutoff = 0.00009172, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events through

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

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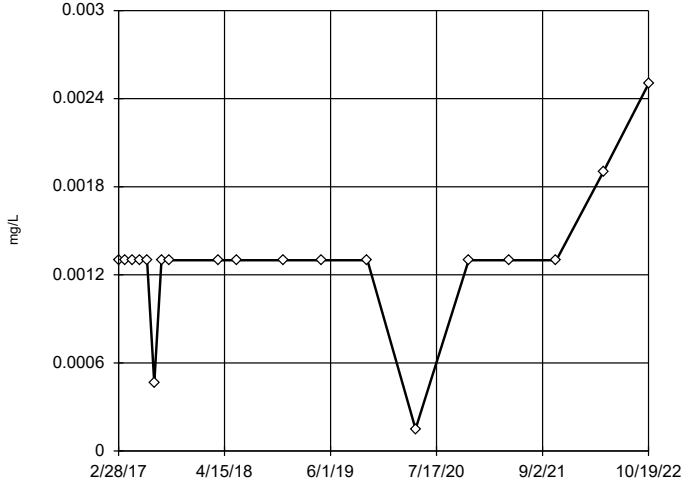
Tukey's Outlier Screening

MW-U1 (bg)



n = 19

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

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

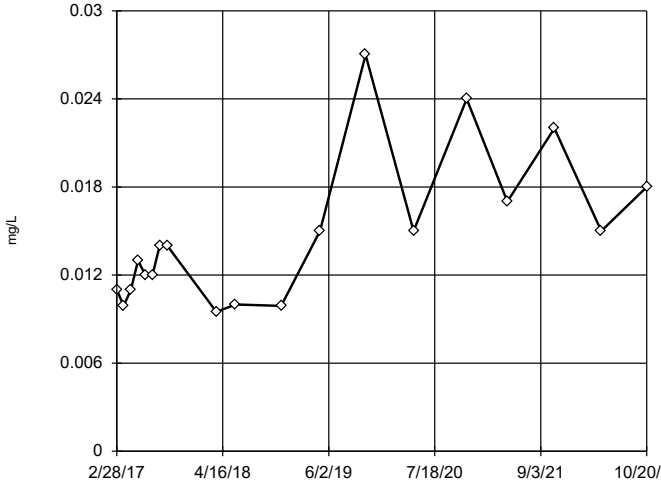
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 1/16/2023 10:34 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D1



n = 19

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 = 0.06275, low cutoff = 0.00298, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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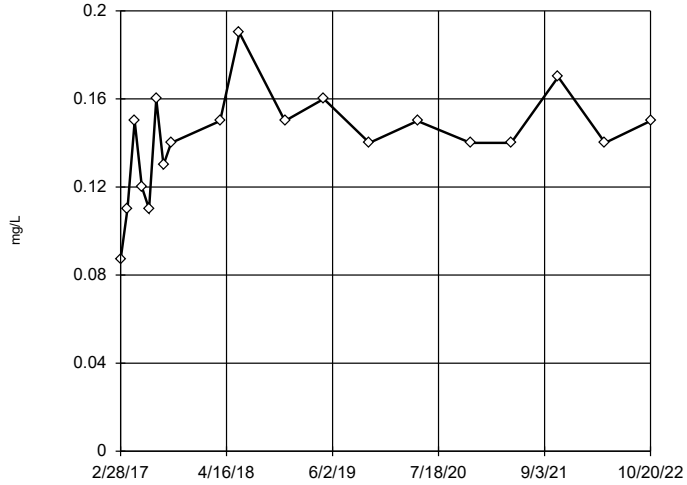
Tukey's Outlier Screening

MW-D2



n = 19

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 = 0.1982, low cutoff = 0.01, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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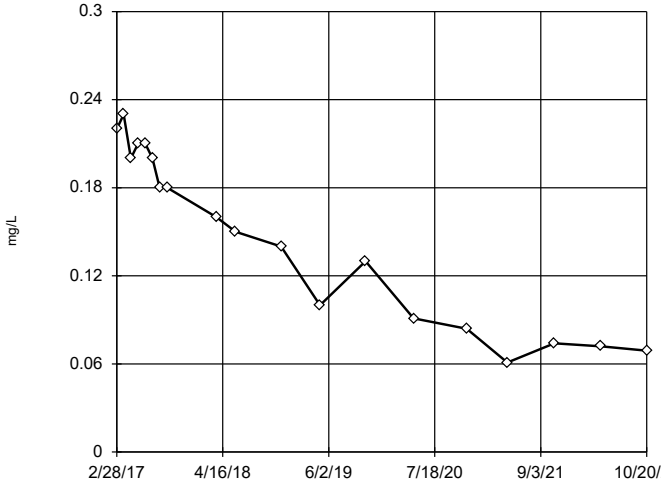
Tukey's Outlier Screening

MW-D3



n = 19

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

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

High cutoff = 0.548, low cutoff = -0.264, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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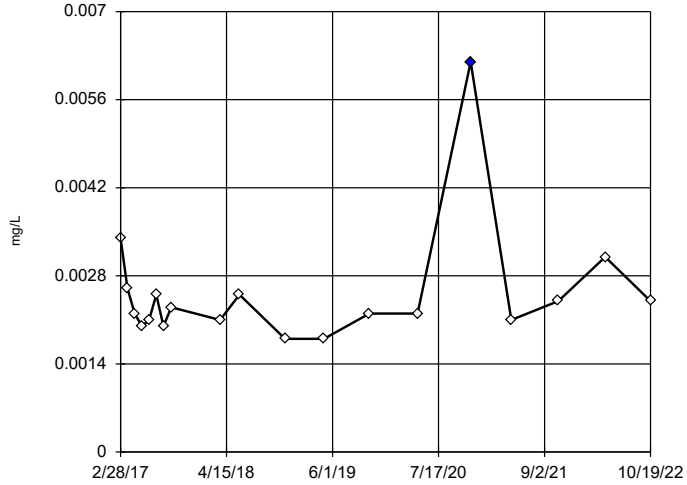
Tukey's Outlier Screening

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).

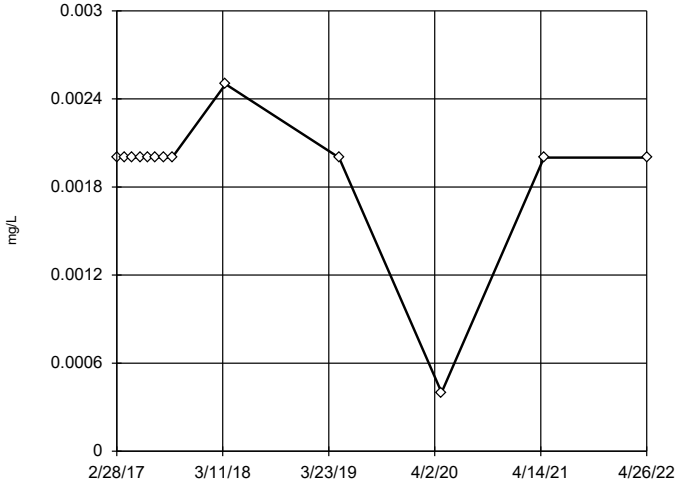
High cutoff = 0.004218, low cutoff = 0.001245, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D1



n = 13

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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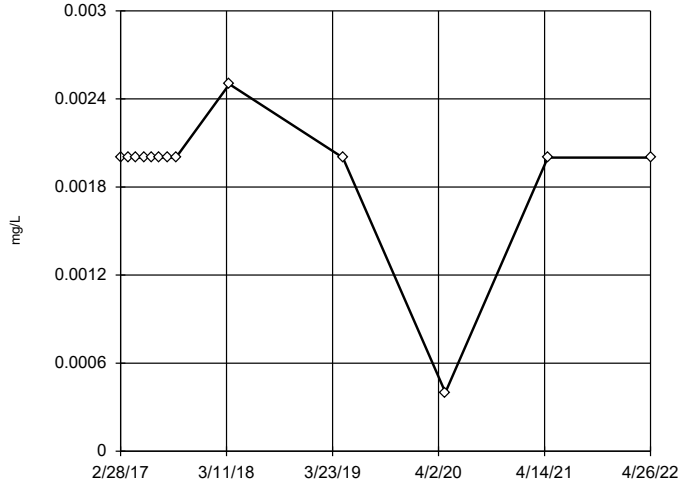
Tukey's Outlier Screening

MW-D2



n = 13

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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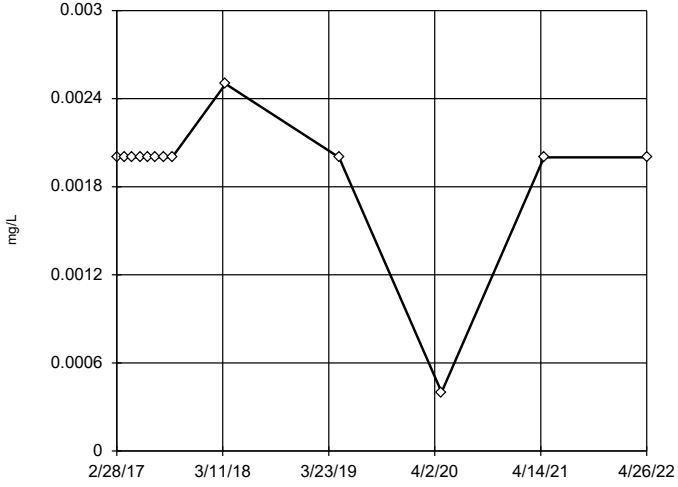
Tukey's Outlier Screening

MW-D3



n = 13

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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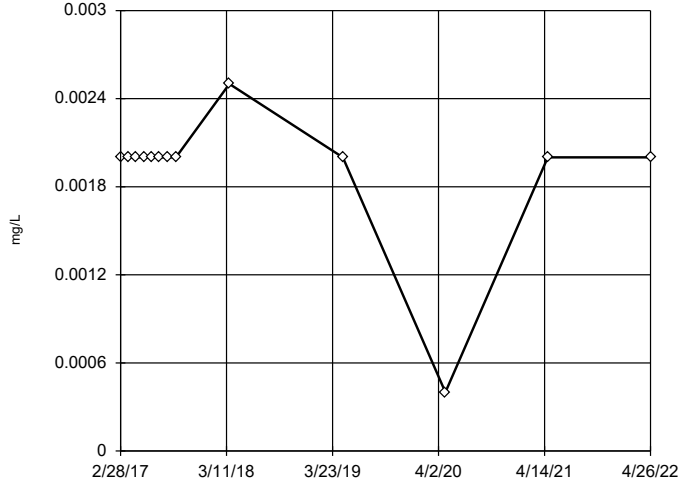
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

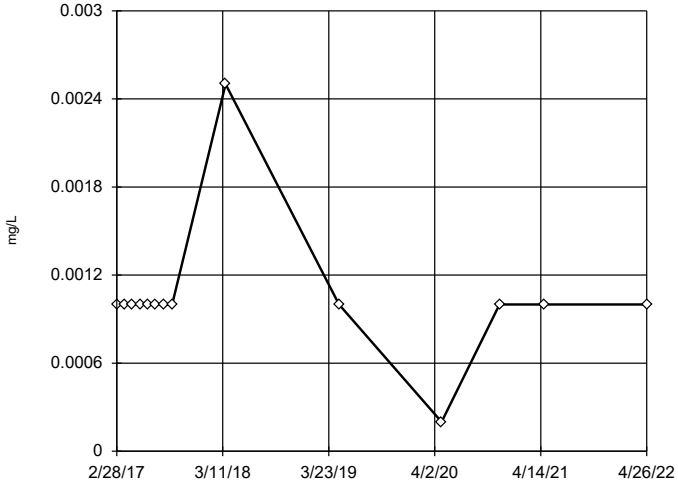
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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: Cadmium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

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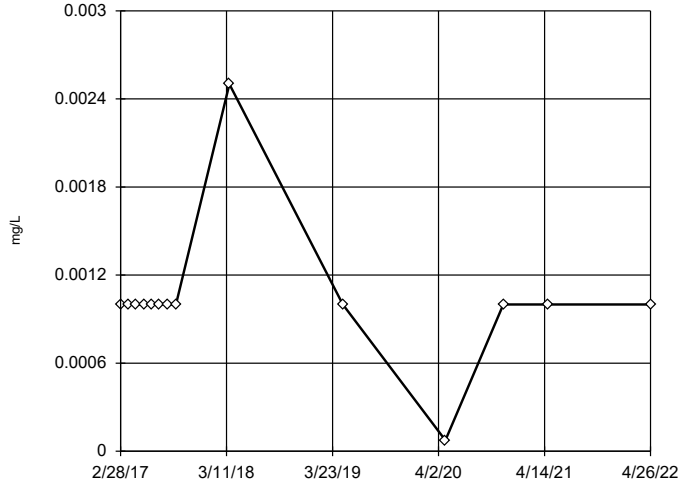
Tukey's Outlier Screening

MW-D2



n = 14

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

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

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

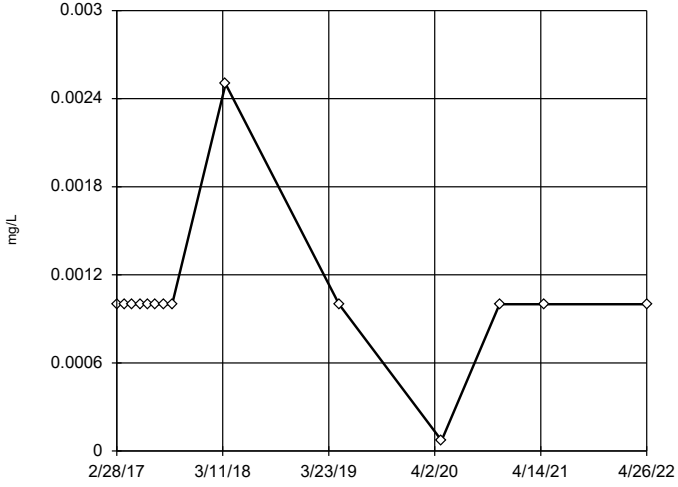
Constituent: Cadmium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

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.

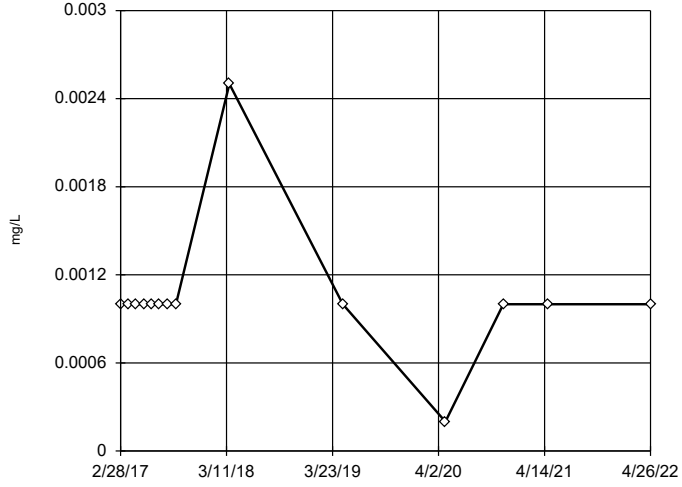
Constituent: Cadmium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

Tukey's Outlier Screening

MW-U1 (bg)



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).

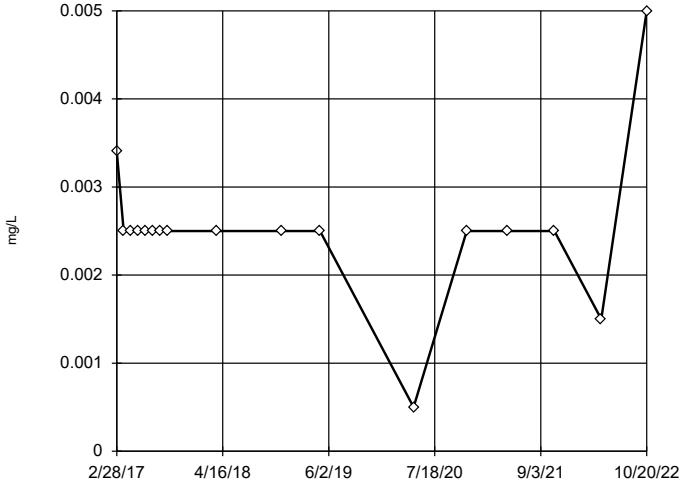
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

Tukey's Outlier Screening

MW-D1



n = 17

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: Chromium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

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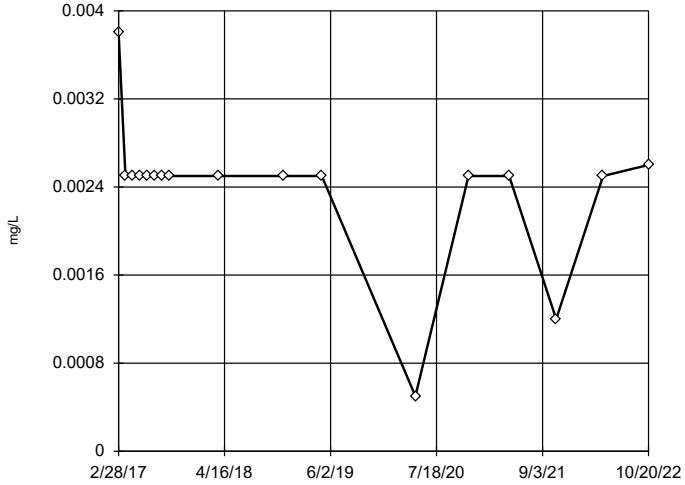
Tukey's Outlier Screening

MW-D2



n = 17

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: Chromium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

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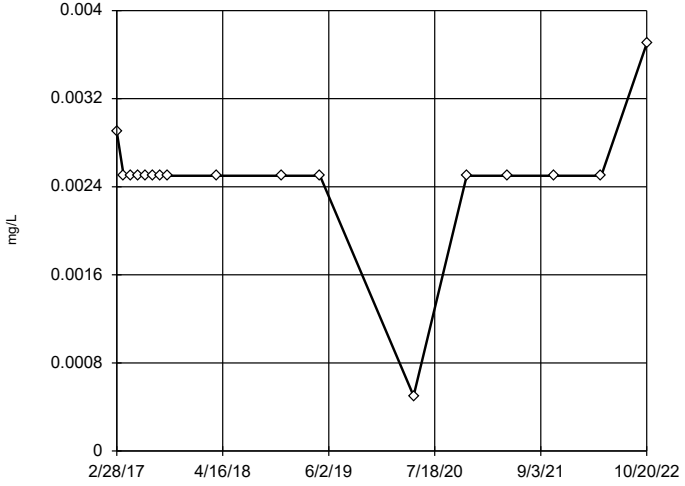
Tukey's Outlier Screening

MW-D3



n = 17

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: Chromium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

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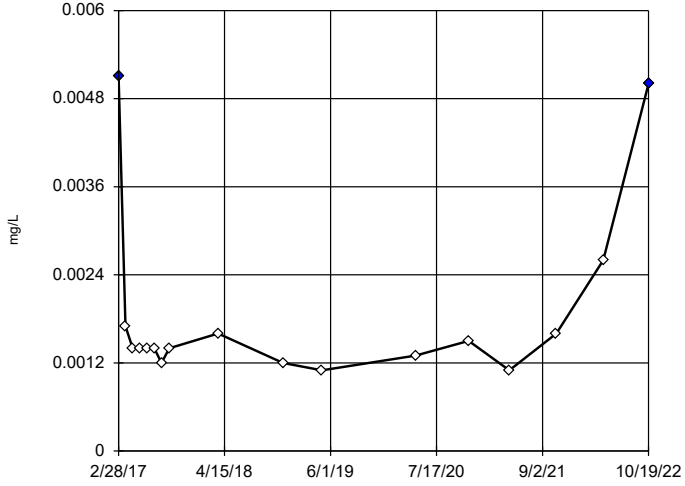
Tukey's Outlier Screening

MW-U1 (bg)



n = 17

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).

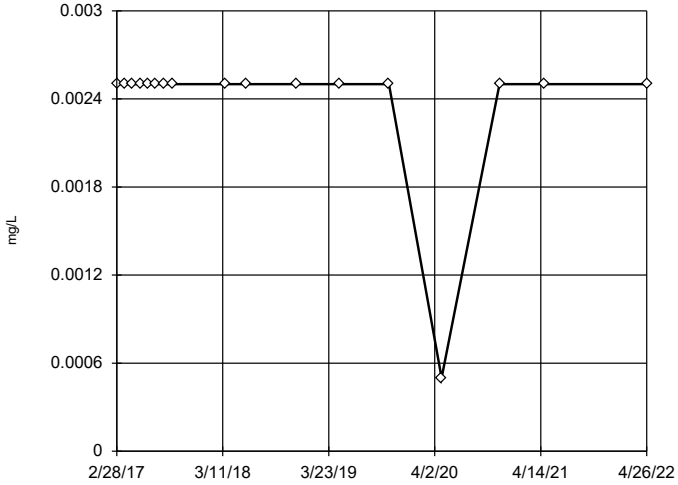
High cutoff = 0.003797, low cutoff = 0.0005425, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throu

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

Tukey's Outlier Screening

MW-D1



n = 17

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

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

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

Constituent: Cobalt Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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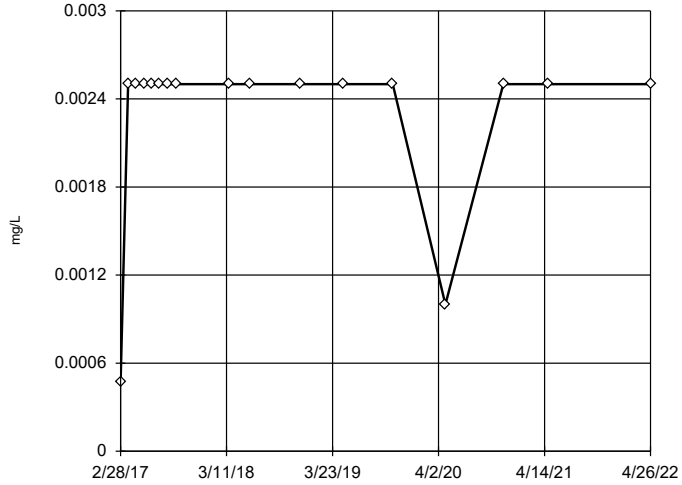
Tukey's Outlier Screening

MW-D2



n = 17

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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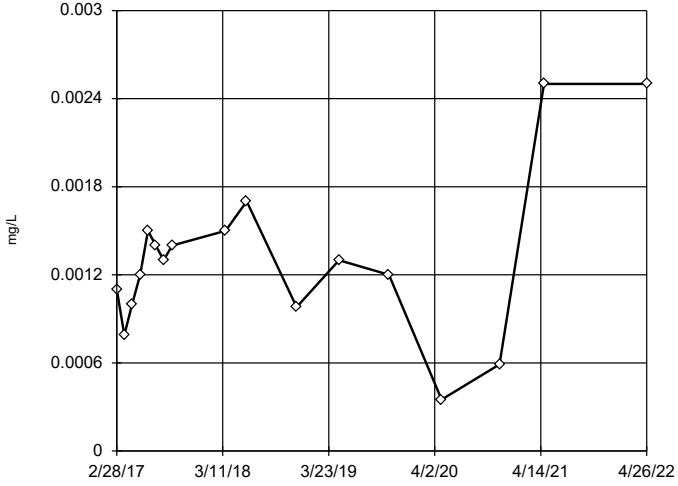
Tukey's Outlier Screening

MW-D3



n = 17

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 = 0.003664, low cutoff = 0.00009343, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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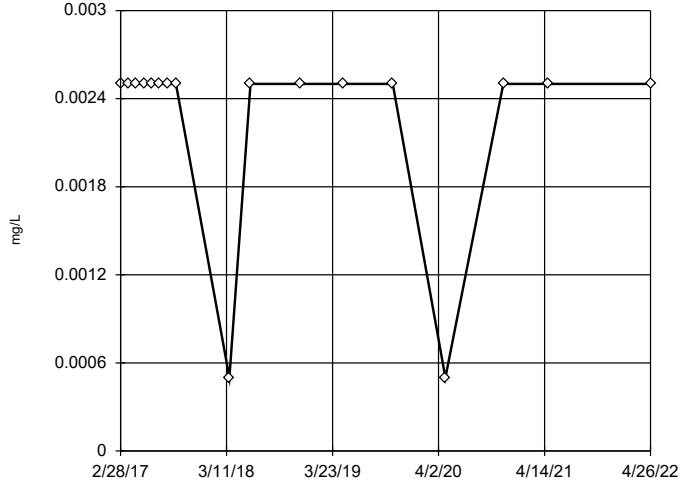
Tukey's Outlier Screening

MW-U1 (bg)



n = 17

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

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

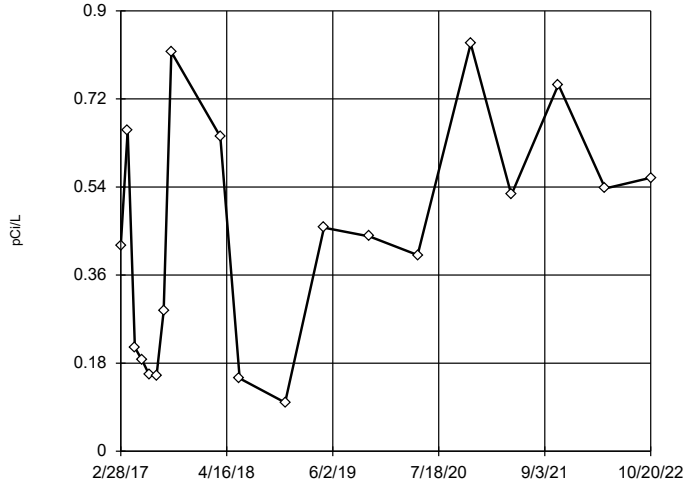
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D1



n = 19

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

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

High cutoff = 2.014, low cutoff = -1.185, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sa

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

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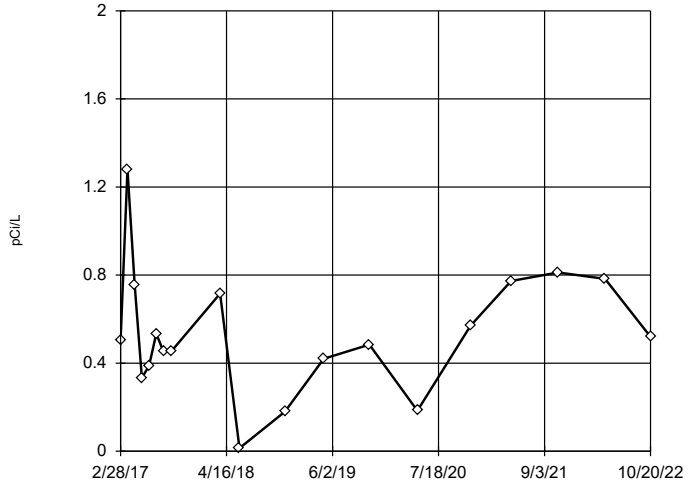
Tukey's Outlier Screening

MW-D2



n = 19

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

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

High cutoff = 1.86, low cutoff = -0.716, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sa

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

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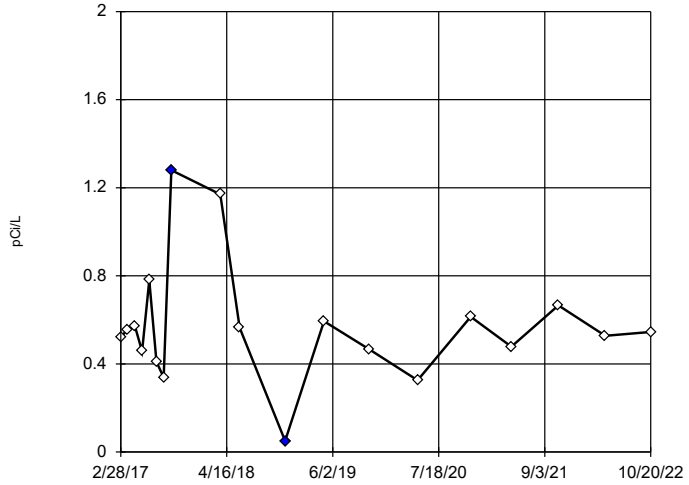
Tukey's Outlier Screening

MW-D3



n = 19

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 = 1.224, low cutoff = 0.1248, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sa

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

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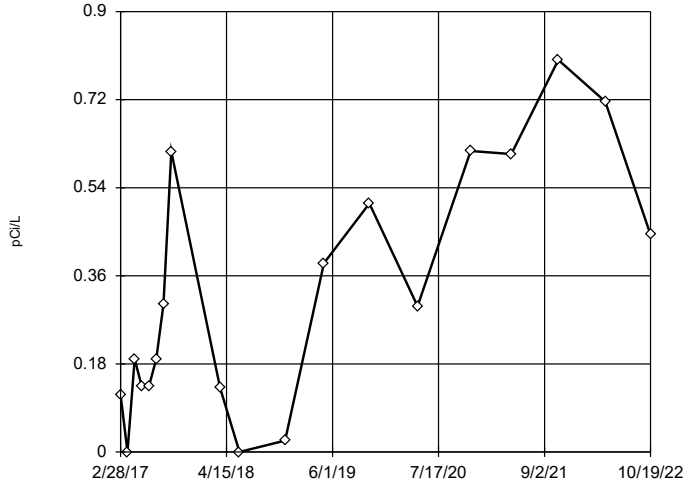
Tukey's Outlier Screening

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).

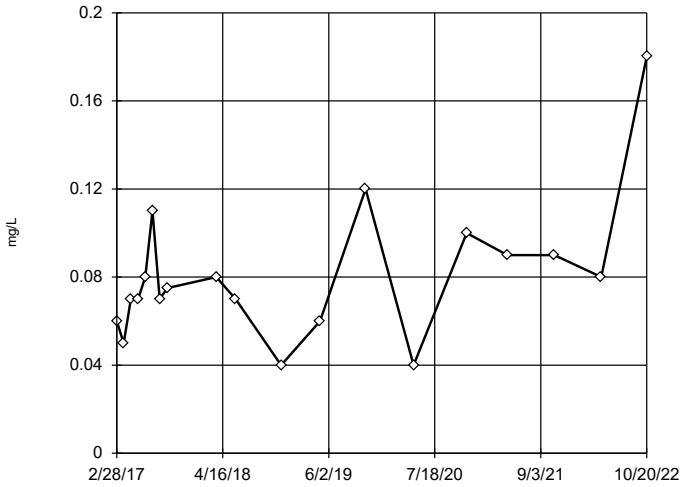
High cutoff = 4.144, low cutoff = -0.7982, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sa

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

Tukey's Outlier Screening

MW-D1



n = 19

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 = 0.3038, low cutoff = 0.01778, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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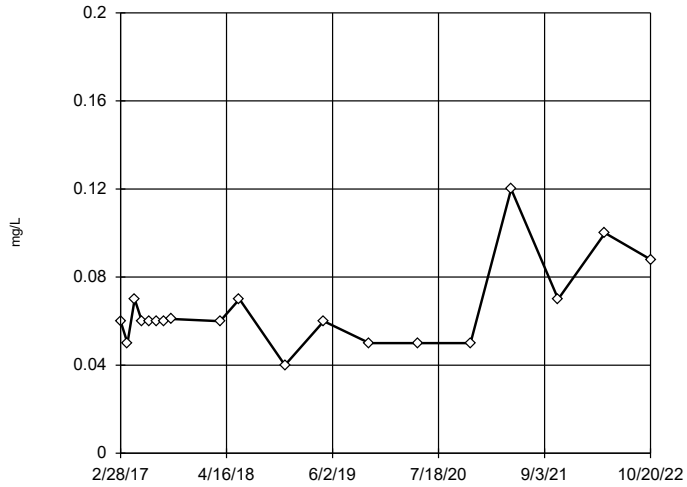
Tukey's Outlier Screening

MW-D2



n = 19

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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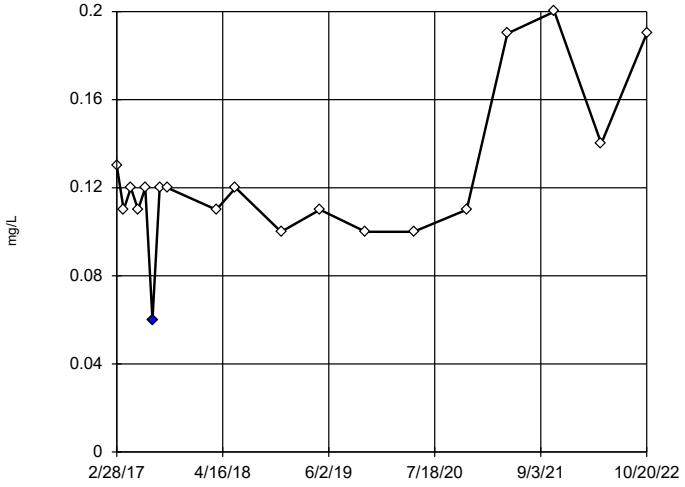
Tukey's Outlier Screening

MW-D3



n = 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 = 0.2146, low cutoff = 0.06664, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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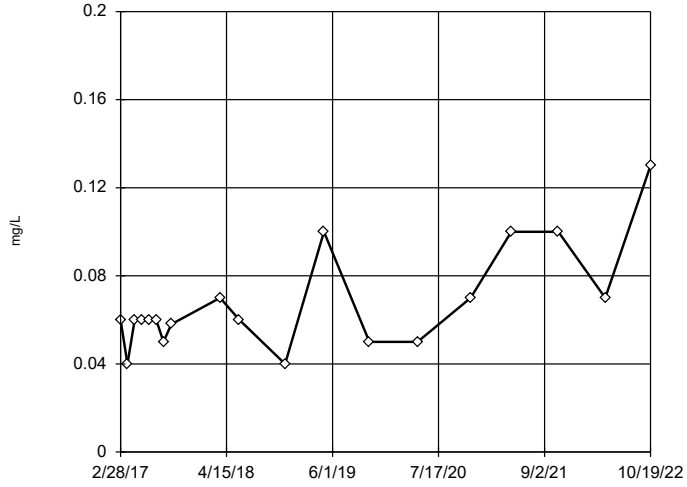
Tukey's Outlier Screening

MW-U1 (bg)



n = 19

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

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

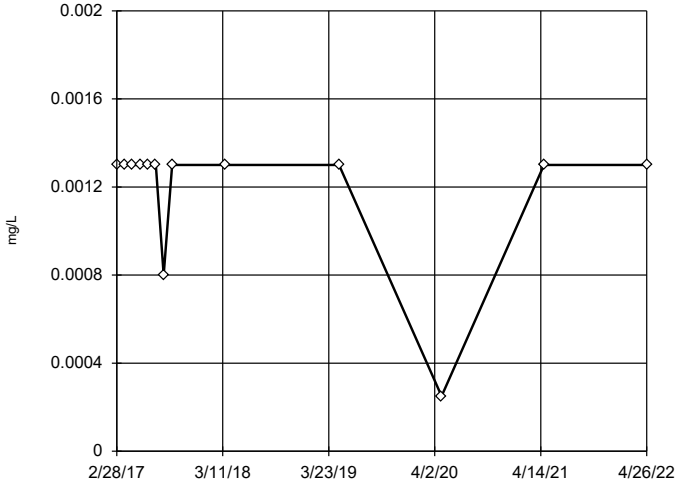
High cutoff = 0.1921, low cutoff = 0.01822, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D1



n = 13

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

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

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

Constituent: Lead Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through 19

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

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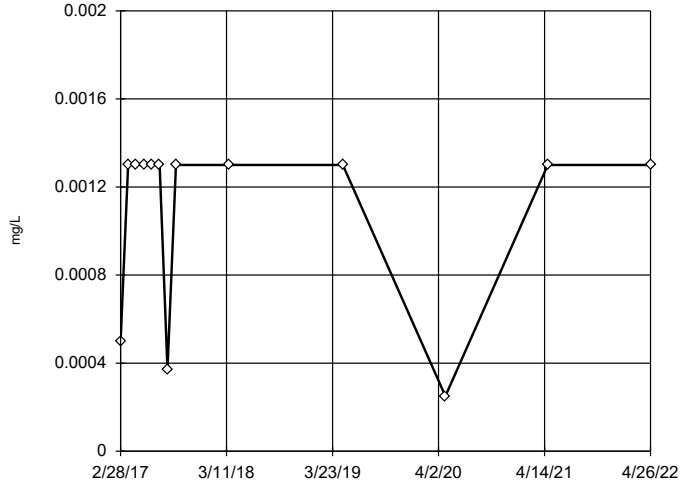
Tukey's Outlier Screening

MW-D2



n = 13

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 = 0.00545, low cutoff = 0.0001923, based on IQR multiplier of 3.

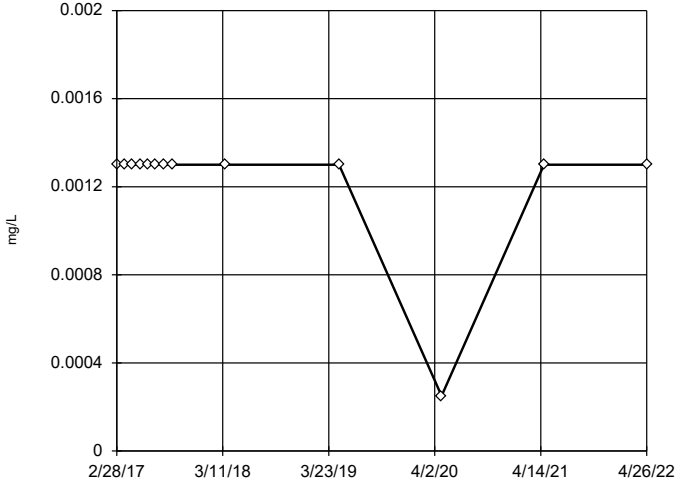
Constituent: Lead Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through 19

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

Tukey's Outlier Screening

MW-D3



n = 13

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through 19

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

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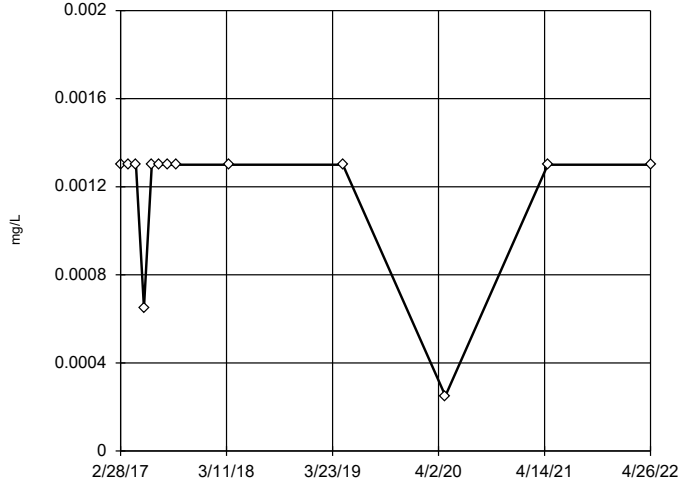
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

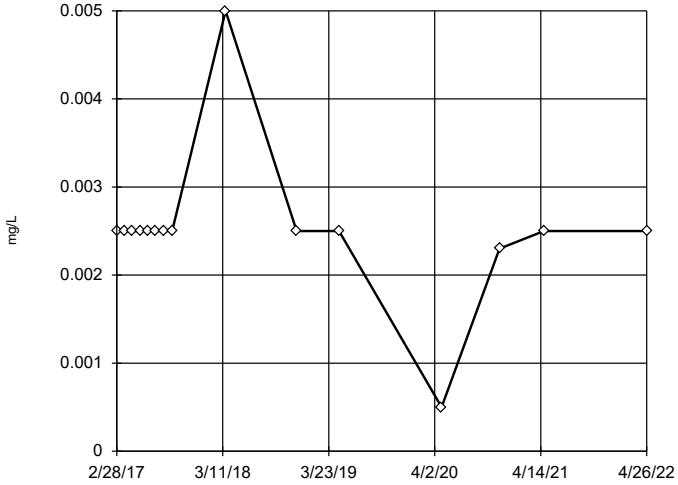
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through 19

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.

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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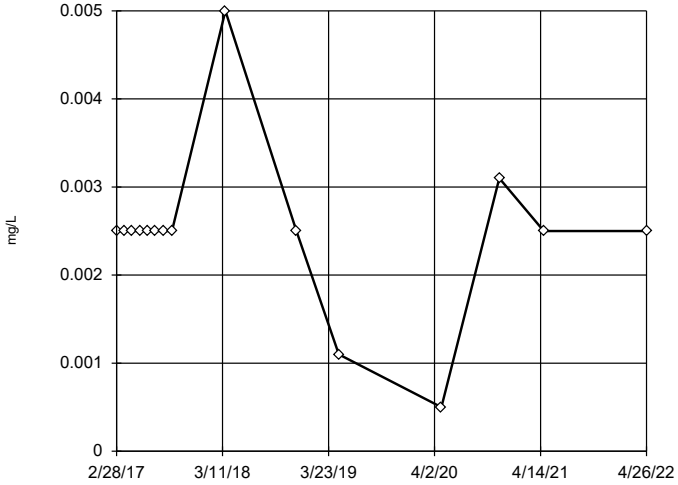
Tukey's Outlier Screening

MW-D2



n = 15

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

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.

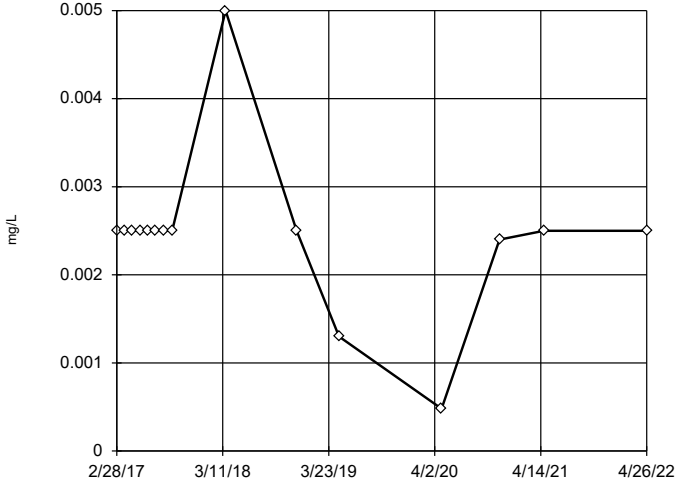
Constituent: Lithium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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.

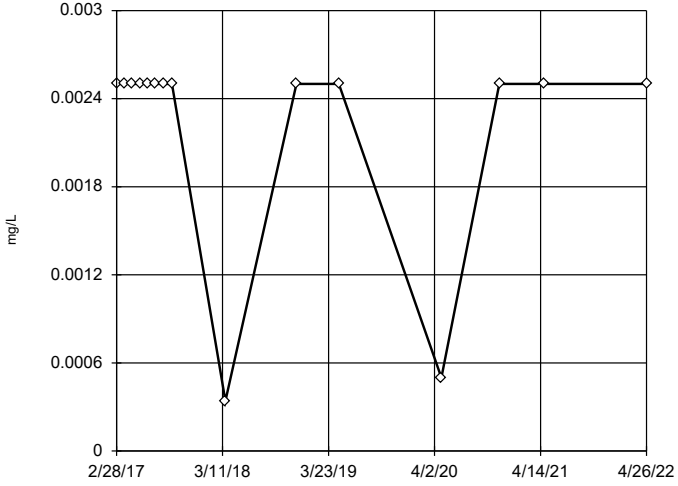
Constituent: Lithium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-U1 (bg)



n = 15

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

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

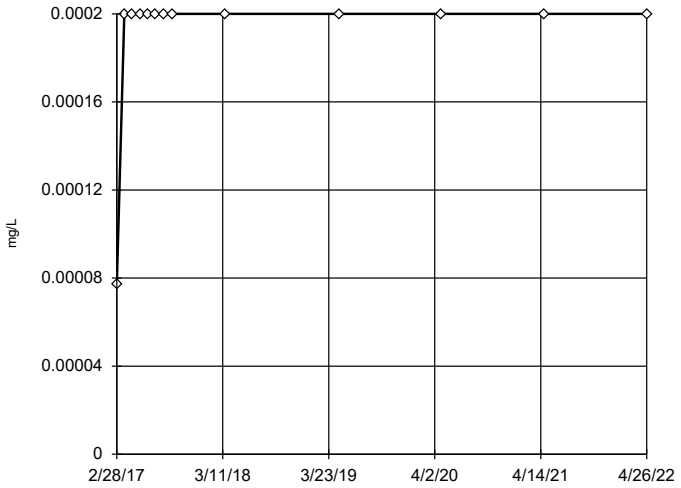
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D1



n = 13

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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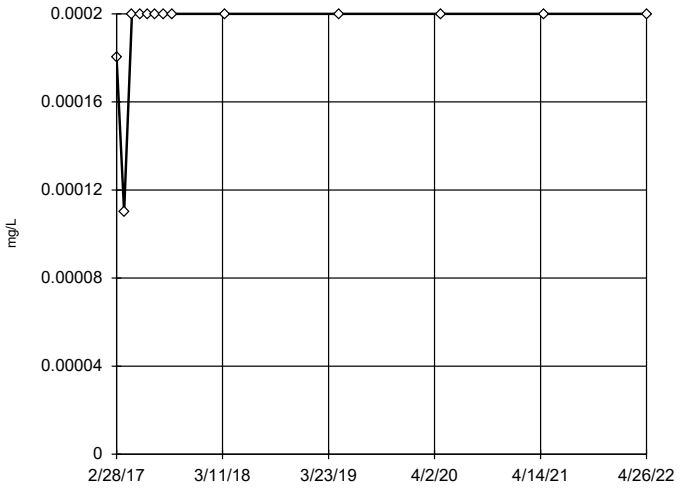
Tukey's Outlier Screening

MW-D2



n = 13

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

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

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

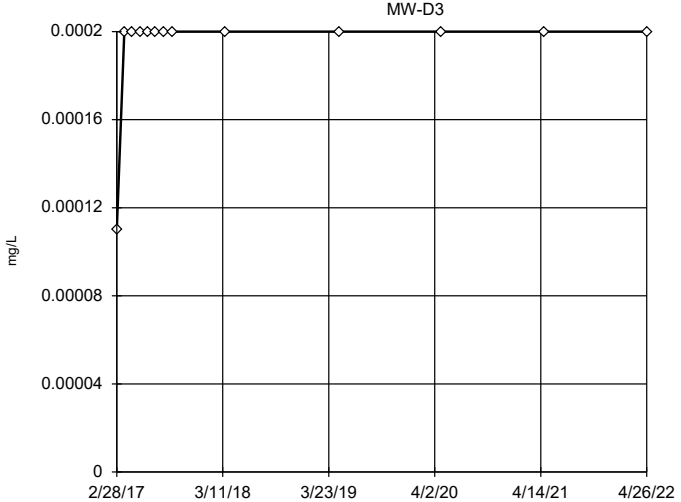
Constituent: Mercury Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D3



n = 13

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: Mercury Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

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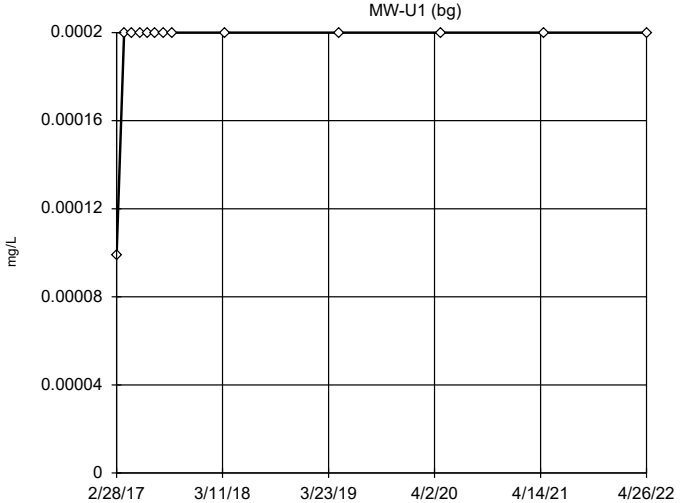
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

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

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

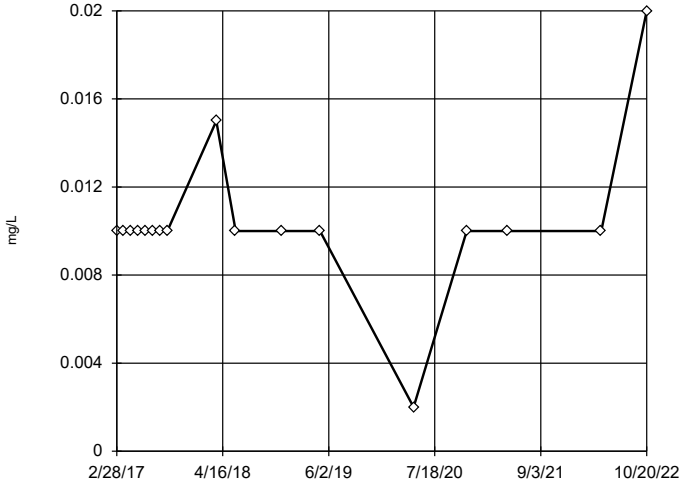
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events through

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

Tukey's Outlier Screening

MW-D1



n = 17

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events thr

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

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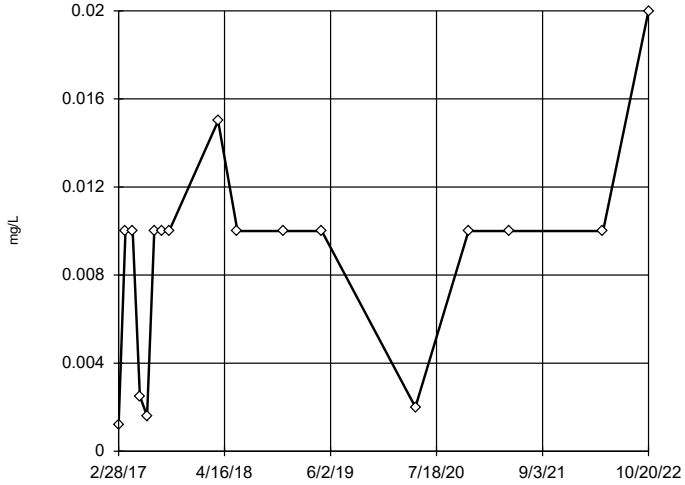
Tukey's Outlier Screening

MW-D2



n = 17

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

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

High cutoff = 0.02125, low cutoff = -0.005, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events thr

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

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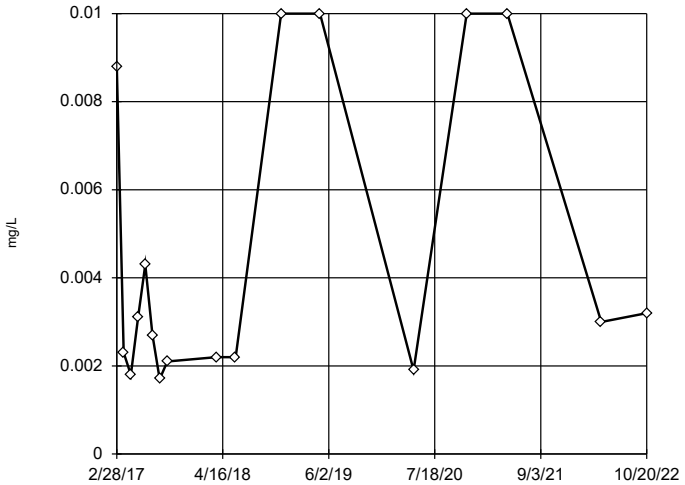
Tukey's Outlier Screening

MW-D3



n = 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).

High cutoff = 0.7798, low cutoff = 0.00002586, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events thr

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

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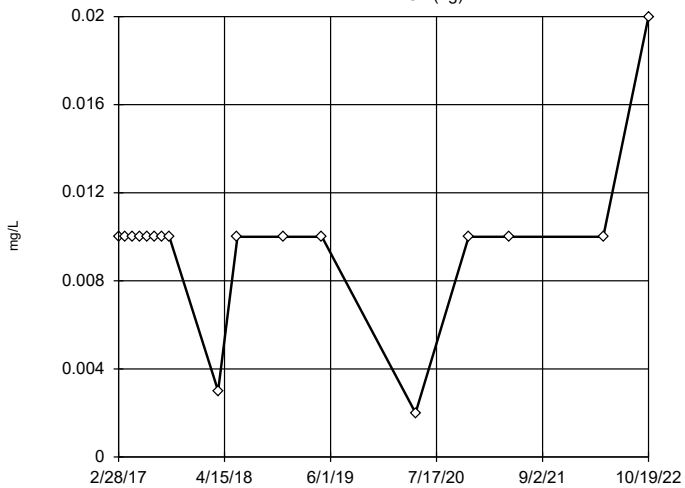
Tukey's Outlier Screening

MW-U1 (bg)



n = 17

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

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

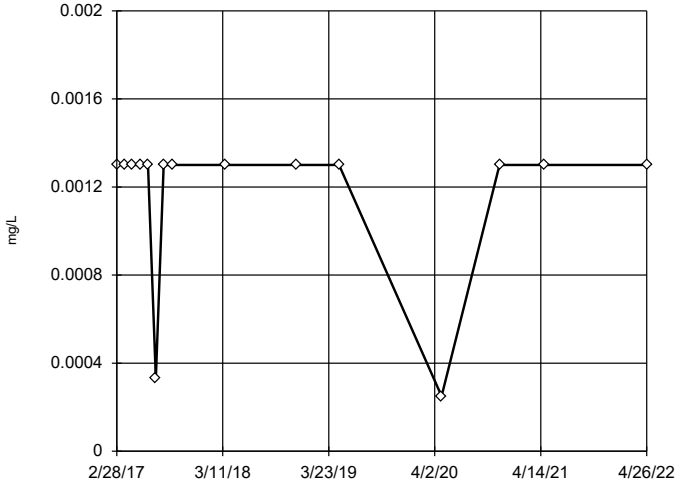
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events thr

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 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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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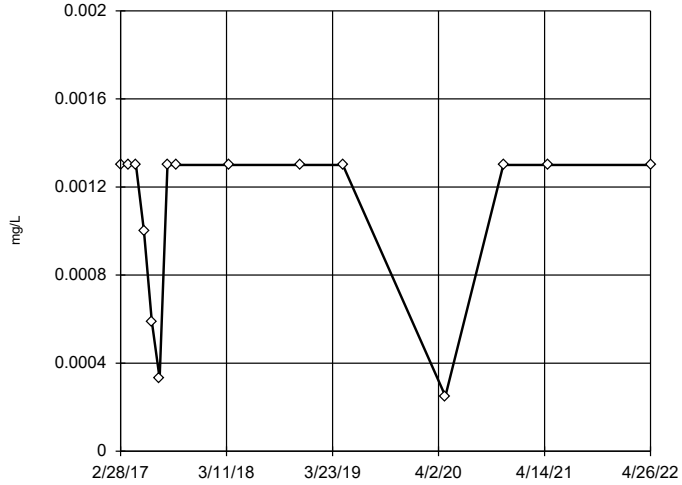
Tukey's Outlier Screening

MW-D2



n = 15

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

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

High cutoff = 0.001939, low cutoff = -0.001034, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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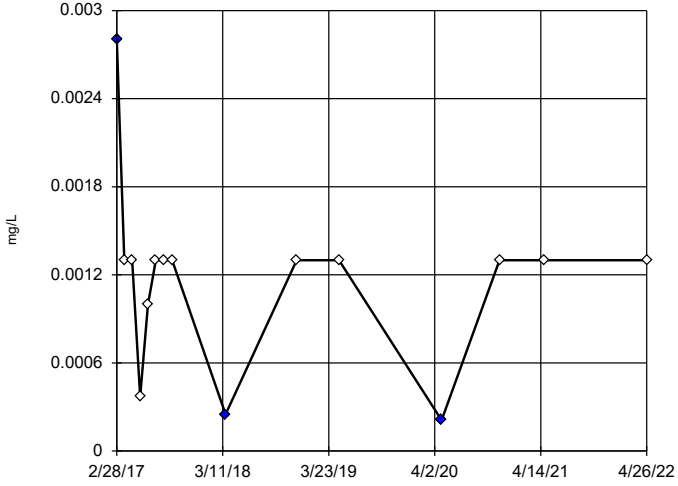
Tukey's Outlier Screening

MW-D3



n = 15

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 = 0.002436, low cutoff = 0.0003358, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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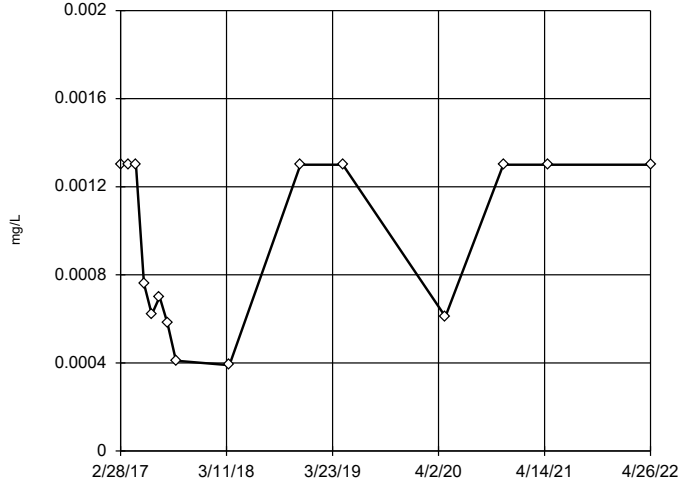
Tukey's Outlier Screening

MW-U1 (bg)



n = 15

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

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

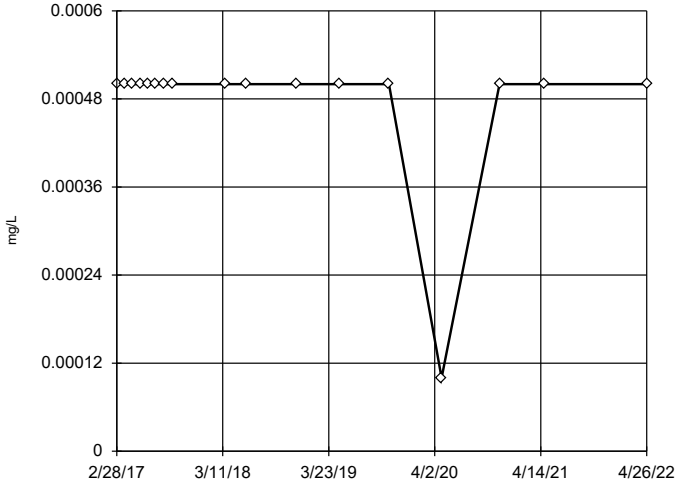
High cutoff = 0.01258, low cutoff = 0.00006302, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

Tukey's Outlier Screening

MW-D1



n = 17

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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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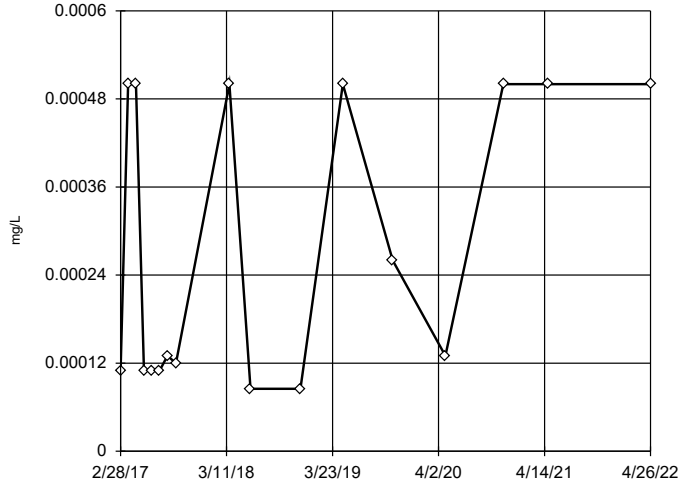
Tukey's Outlier Screening

MW-D2



n = 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).

High cutoff = 0.04696, low cutoff = 0.000001171, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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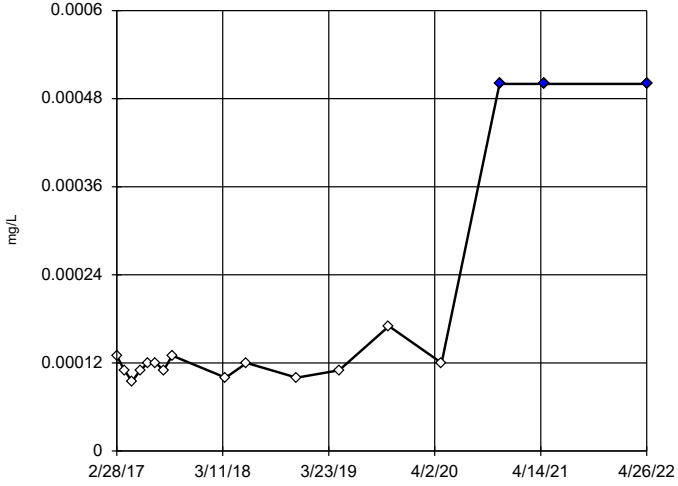
Tukey's Outlier Screening

MW-D3



n = 17

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 = 0.0003669, low cutoff = 0.00004456, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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

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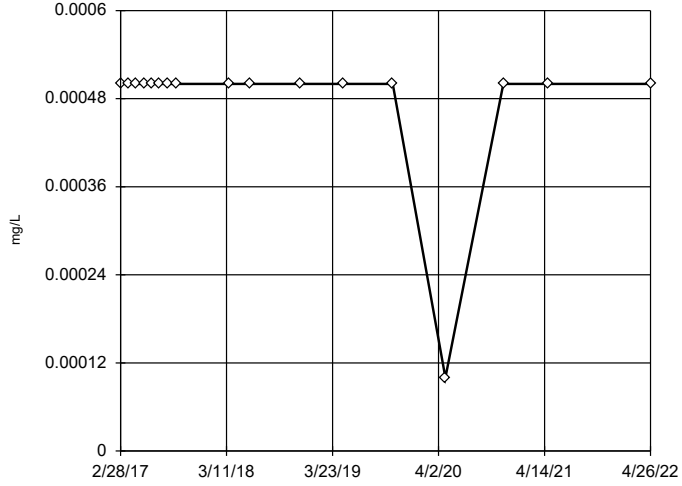
Tukey's Outlier Screening

MW-U1 (bg)



n = 17

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

Data were 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 1/16/2023 10:35 AM View: Sanitas_Statistics Sampling Events throug

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 1/16/2023, 10:41 AM

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	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	19	0.001308	0.0003757	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	19	0.001223	0.0004348	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.001057	0.0004897	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	19	0.00129	0.000461	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.0147	0.004992	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.1414	0.0233	x^2	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.1453	0.05877	normal	ShapiroWilk
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**19**	**0.002521**	**0.0009761**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004869	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004875	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Chromium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002524	0.0008678	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002388	0.0006698	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	17	0.002476	0.0005911	unknown	ShapiroWilk
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051,0.005**	**2/28/2017...**	**NP**	**NaN**	**17**	**0.001882**	**0.00124**	**ln(x)**	**ShapiroWilk**
Cobalt (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002382	0.0004851	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002292	0.0005936	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	17	0.001312	0.0005622	sqrt(x)	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.002265	0.0006642	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.4356	0.2374	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.5346	0.2835	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**MW-D3**	**Yes**	**1.28,0.0501**	**9/13/2017...**	**NP**	**NaN**	**19**	**0.5745**	**0.2755**	**sqrt(x)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.327	0.2553	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.08079	0.03198	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.06521	0.0191	ln(x)	ShapiroWilk
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06**	**7/17/2017**	**NP**	**NaN**	**19**	**0.1242**	**0.03469**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.06779	0.02351	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001181	0.0003119	unknown	ShapiroWilk
Lead (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	13	0.001086	0.0004096	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001219	0.0002912	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001169	0.0003295	unknown	ShapiroWilk
Lithium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.00252	0.0008571	unknown	ShapiroWilk
Lithium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	15	0.00248	0.0009473	unknown	ShapiroWilk
Lithium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	15	0.002445	0.0009156	unknown	ShapiroWilk
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	15	0.002223	0.0007325	unknown	ShapiroWilk
Mercury (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.01041	0.003411	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.008959	0.00484	normal	ShapiroWilk

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	17	0.004665	0.003458	ln(x)	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.009706	0.003636	unknown	ShapiroWilk
Selenium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.001165	0.0003557	unknown	ShapiroWilk
Selenium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	15	0.001098	0.0003804	x^2	ShapiroWilk
Selenium (mg/L)	**MW-D3**	**Yes**	**0.0028,0....**	**2/28/2017...**	**NP**	**NaN**	**15**	**0.001175**	**0.0006131**	**sqrt(x)**	**ShapiroWilk**
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	15	0.000...	0.0003819	ln(x)	ShapiroWilk
Thallium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk
Thallium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.000...	0.0001939	ln(x)	ShapiroWilk
Thallium (mg/L)	**MW-D3**	**Yes**	**0.0005,0....**	**11/19/202...**	**NP**	**NaN**	**17**	**0.000185**	**0.0001512**	**ln(x)**	**ShapiroWilk**
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	19	0.001308	0.0003757	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	19	0.001223	0.0004348	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.001057	0.0004897	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	19	0.00129	0.000461	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.0147	0.004992	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.1414	0.0233	x^2	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.1453	0.05877	normal	ShapiroWilk
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**19**	**0.002521**	**0.0009761**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004869	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004875	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Chromium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002524	0.0008678	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002388	0.0006698	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	17	0.002476	0.0005911	unknown	ShapiroWilk
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051,0.005**	**2/28/2017...**	**NP**	**NaN**	**17**	**0.001882**	**0.00124**	**ln(x)**	**ShapiroWilk**
Cobalt (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002382	0.0004851	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002292	0.0005936	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	17	0.001312	0.0005622	sqrt(x)	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.002265	0.0006642	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.4356	0.2374	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.5346	0.2835	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**MW-D3**	**Yes**	**1.28,0.0501**	**9/13/2017...**	**NP**	**NaN**	**19**	**0.5745**	**0.2755**	**sqrt(x)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.327	0.2553	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.08079	0.03198	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.06521	0.0191	ln(x)	ShapiroWilk
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06**	**7/17/2017**	**NP**	**NaN**	**19**	**0.1242**	**0.03469**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.06779	0.02351	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001181	0.0003119	unknown	ShapiroWilk
Lead (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	13	0.001086	0.0004096	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001219	0.0002912	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001169	0.0003295	unknown	ShapiroWilk
Lithium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.00252	0.0008571	unknown	ShapiroWilk
Lithium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	15	0.00248	0.0009473	unknown	ShapiroWilk
Lithium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	15	0.002445	0.0009156	unknown	ShapiroWilk
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	15	0.002223	0.0007325	unknown	ShapiroWilk
Mercury (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.01041	0.003411	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.008959	0.00484	normal	ShapiroWilk

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	17	0.004665	0.003458	ln(x)	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.009706	0.003636	unknown	ShapiroWilk
Selenium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.001165	0.0003557	unknown	ShapiroWilk
Selenium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	15	0.001098	0.0003804	x^2	ShapiroWilk
Selenium (mg/L)	**MW-D3**	**Yes**	**0.0028,0....**	**2/28/2017...**	**NP**	**NaN**	**15**	**0.001175**	**0.0006131**	**sqrt(x)**	**ShapiroWilk**
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	15	0.000...	0.0003819	ln(x)	ShapiroWilk
Thallium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk
Thallium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.000...	0.0001939	ln(x)	ShapiroWilk
Thallium (mg/L)	**MW-D3**	**Yes**	**0.0005,0....**	**11/19/202...**	**NP**	**NaN**	**17**	**0.000185**	**0.0001512**	**ln(x)**	**ShapiroWilk**
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	19	0.001308	0.0003757	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	19	0.001223	0.0004348	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.001057	0.0004897	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	19	0.00129	0.000461	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.0147	0.004992	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.1414	0.0233	x^2	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.1453	0.05877	normal	ShapiroWilk
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**19**	**0.002521**	**0.0009761**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004869	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004875	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Chromium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002524	0.0008678	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002388	0.0006698	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	17	0.002476	0.0005911	unknown	ShapiroWilk
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051,0.005**	**2/28/2017...**	**NP**	**NaN**	**17**	**0.001882**	**0.00124**	**ln(x)**	**ShapiroWilk**
Cobalt (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002382	0.0004851	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002292	0.0005936	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	17	0.001312	0.0005622	sqrt(x)	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.002265	0.0006642	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.4356	0.2374	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.5346	0.2835	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**MW-D3**	**Yes**	**1.28,0.0501**	**9/13/2017...**	**NP**	**NaN**	**19**	**0.5745**	**0.2755**	**sqrt(x)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.327	0.2553	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.08079	0.03198	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.06521	0.0191	ln(x)	ShapiroWilk
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06**	**7/17/2017**	**NP**	**NaN**	**19**	**0.1242**	**0.03469**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.06779	0.02351	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001181	0.0003119	unknown	ShapiroWilk
Lead (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	13	0.001086	0.0004096	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001219	0.0002912	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001169	0.0003295	unknown	ShapiroWilk
Lithium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.00252	0.0008571	unknown	ShapiroWilk
Lithium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	15	0.00248	0.0009473	unknown	ShapiroWilk
Lithium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	15	0.002445	0.0009156	unknown	ShapiroWilk
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	15	0.002223	0.0007325	unknown	ShapiroWilk
Mercury (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.01041	0.003411	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.008959	0.00484	normal	ShapiroWilk

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	17	0.004665	0.003458	ln(x)	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.009706	0.003636	unknown	ShapiroWilk
Selenium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.001165	0.0003557	unknown	ShapiroWilk
Selenium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	15	0.001098	0.0003804	x^2	ShapiroWilk
Selenium (mg/L)	**MW-D3**	**Yes**	**0.0028,0....**	**2/28/2017...**	**NP**	**NaN**	**15**	**0.001175**	**0.0006131**	**sqrt(x)**	**ShapiroWilk**
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	15	0.000...	0.0003819	ln(x)	ShapiroWilk
Thallium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk
Thallium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.000...	0.0001939	ln(x)	ShapiroWilk
Thallium (mg/L)	**MW-D3**	**Yes**	**0.0005,0....**	**11/19/202...**	**NP**	**NaN**	**17**	**0.000185**	**0.0001512**	**ln(x)**	**ShapiroWilk**
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Antimony (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.002346	0.0005547	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	19	0.001308	0.0003757	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	19	0.001223	0.0004348	unknown	ShapiroWilk
Arsenic (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.001057	0.0004897	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	19	0.00129	0.000461	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.0147	0.004992	ln(x)	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.1414	0.0233	x^2	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	19	0.1453	0.05877	normal	ShapiroWilk
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**19**	**0.002521**	**0.0009761**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Beryllium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001915	0.0004758	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004869	unknown	ShapiroWilk
Cadmium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	14	0.001041	0.0004875	unknown	ShapiroWilk
Cadmium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	14	0.00105	0.0004686	unknown	ShapiroWilk
Chromium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002524	0.0008678	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002388	0.0006698	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	17	0.002476	0.0005911	unknown	ShapiroWilk
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051,0.005**	**2/28/2017...**	**NP**	**NaN**	**17**	**0.001882**	**0.00124**	**ln(x)**	**ShapiroWilk**
Cobalt (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.002382	0.0004851	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	17	0.002292	0.0005936	unknown	ShapiroWilk
Cobalt (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	17	0.001312	0.0005622	sqrt(x)	ShapiroWilk
Cobalt (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.002265	0.0006642	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.4356	0.2374	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.5346	0.2835	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**MW-D3**	**Yes**	**1.28,0.0501**	**9/13/2017...**	**NP**	**NaN**	**19**	**0.5745**	**0.2755**	**sqrt(x)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.327	0.2553	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	19	0.08079	0.03198	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	19	0.06521	0.0191	ln(x)	ShapiroWilk
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06**	**7/17/2017**	**NP**	**NaN**	**19**	**0.1242**	**0.03469**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	19	0.06779	0.02351	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.001181	0.0003119	unknown	ShapiroWilk
Lead (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	13	0.001086	0.0004096	ln(x)	ShapiroWilk
Lead (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.001219	0.0002912	unknown	ShapiroWilk
Lead (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.001169	0.0003295	unknown	ShapiroWilk
Lithium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.00252	0.0008571	unknown	ShapiroWilk
Lithium (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	15	0.00248	0.0009473	unknown	ShapiroWilk
Lithium (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	15	0.002445	0.0009156	unknown	ShapiroWilk
Lithium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	15	0.002223	0.0007325	unknown	ShapiroWilk
Mercury (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D2	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-D3	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Mercury (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	13	0.000...	0.0000...	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.01041	0.003411	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.008959	0.00484	normal	ShapiroWilk

Outlier Analysis

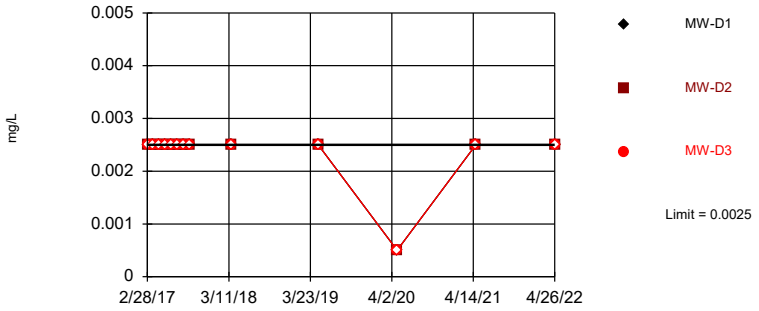
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:41 AM

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	17	0.004665	0.003458	ln(x)	ShapiroWilk
Molybdenum (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.009706	0.003636	unknown	ShapiroWilk
Selenium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	15	0.001165	0.0003557	unknown	ShapiroWilk
Selenium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	15	0.001098	0.0003804	x^2	ShapiroWilk
Selenium (mg/L)	**MW-D3**	**Yes**	**0.0028,0....**	**2/28/2017...**	**NP**	**NaN**	**15**	**0.001175**	**0.0006131**	**sqrt(x)**	**ShapiroWilk**
Selenium (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	15	0.000...	0.0003819	ln(x)	ShapiroWilk
Thallium (mg/L)	MW-D1	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk
Thallium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	17	0.000...	0.0001939	ln(x)	ShapiroWilk
Thallium (mg/L)	**MW-D3**	**Yes**	**0.0005,0....**	**11/19/202...**	**NP**	**NaN**	**17**	**0.000185**	**0.0001512**	**ln(x)**	**ShapiroWilk**
Thallium (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP	NaN	17	0.000...	0.0000...	unknown	ShapiroWilk

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. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

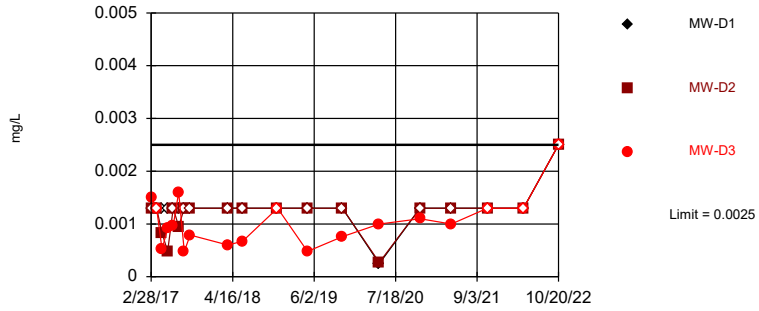
Constituent: Antimony Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events throug

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 19 background values. 78.95% 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: Arsenic Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through

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

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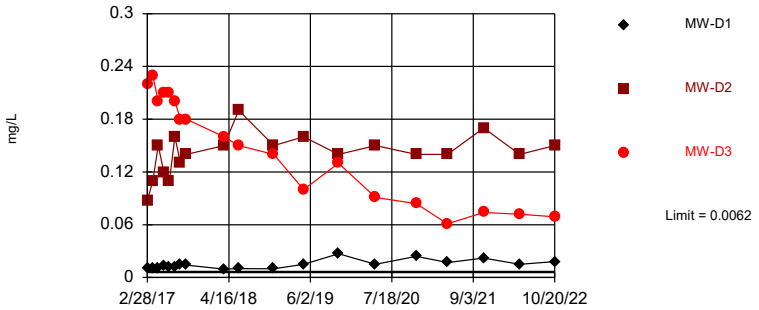
Exceeds Limit: MW-D1, MW-D2, MW-D3

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 19 background values. 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.

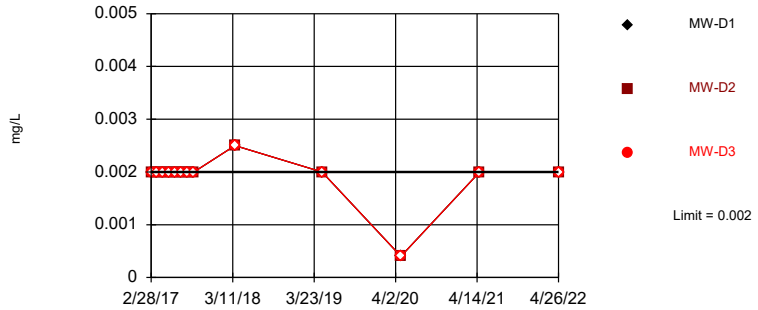
Constituent: Barium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through

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. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

Constituent: Beryllium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events throug

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

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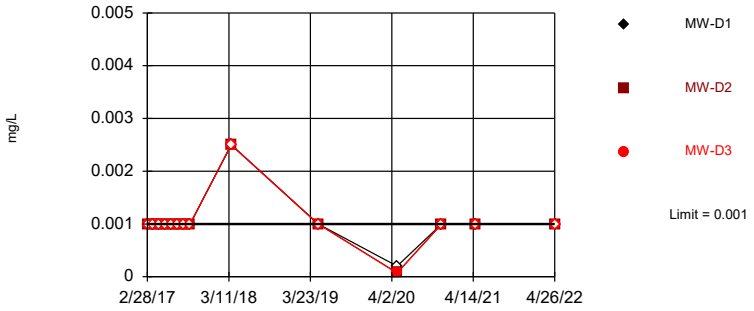
Hollow symbols indicate censored values.

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. 72.07% coverage at alpha=0.01; 80.66% coverage at alpha=0.05; 95.12% coverage at alpha=0.5. Report alpha = 0.4877.

Constituent: Cadmium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events throu

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

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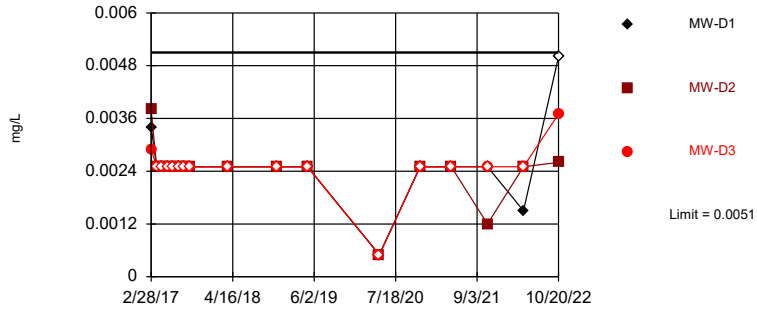
Hollow symbols indicate censored values.

Within Limit

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because 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. 5.882% 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: Chromium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events throu

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

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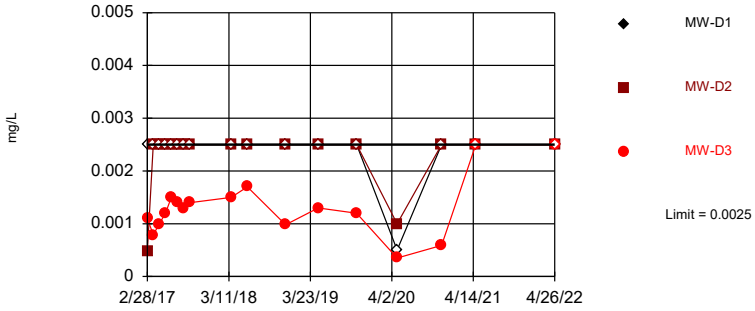
Hollow symbols indicate censored values.

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. 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: Cobalt Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through

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

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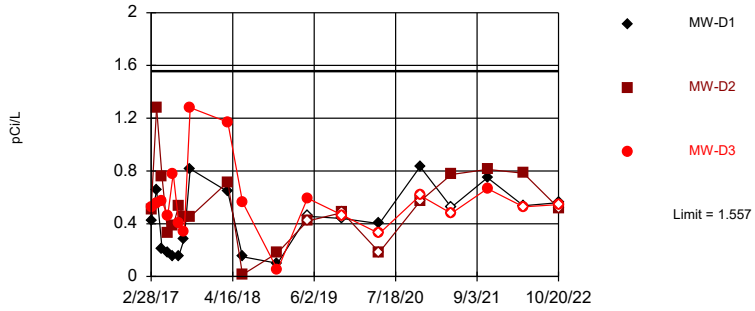
Hollow symbols indicate censored values.

Within Limit

Tolerance Limit

Interwell Parametric



95% coverage. Most recent observation is compared with limit. Background Data Summary (after Cohen`s Adjustment): Mean=0.4524, Std. Dev.=0.3868, n=19, 26.32% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9234, critical = 0.863. Report alpha = 0.01.

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sa

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

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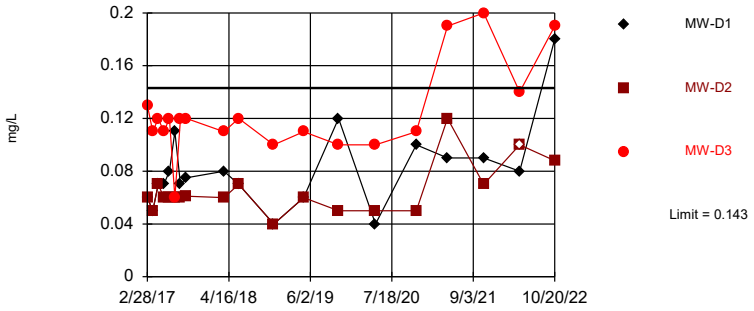
Hollow symbols indicate censored values.

Exceeds Limit: MW-D1, MW-D3

Tolerance Limit

Interwell Parametric



95% coverage. Most recent observation is compared with limit. Background Data Summary (based on square root transformation): Mean=0.2571, Std. Dev.=0.04242, n=19, 10.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8829, critical = 0.863. Report alpha = 0.01.

Constituent: Fluoride Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through

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

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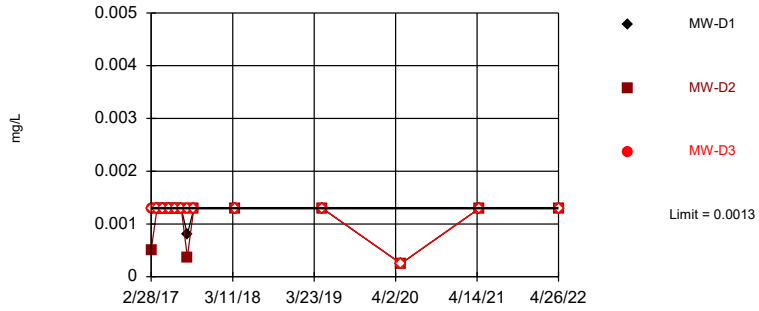
Hollow symbols indicate censored values.

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 13 background values. 92.31% NDs. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

Constituent: Lead Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through 19

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

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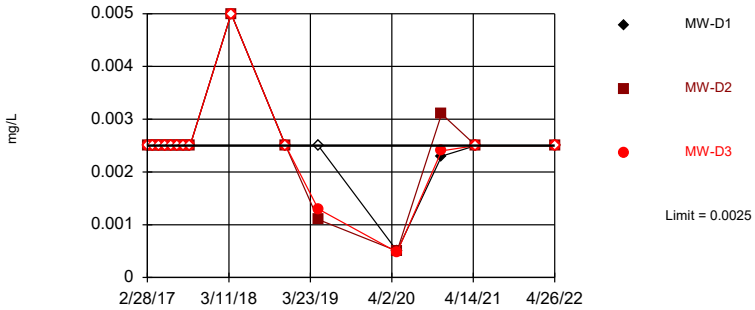
Hollow symbols indicate censored values.

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 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: Lithium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through

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

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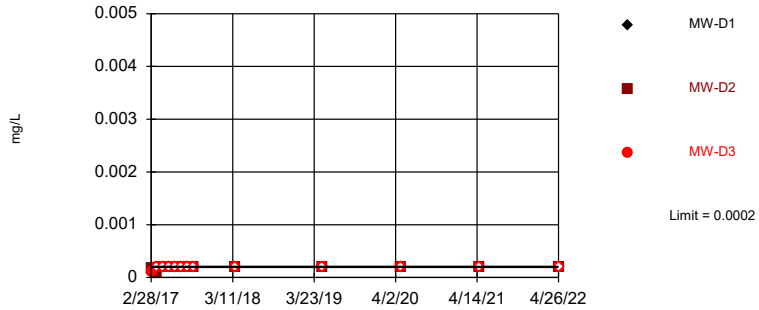
Hollow symbols indicate censored values.

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 13 background values. 92.31% NDs. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

Constituent: Mercury Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events through

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

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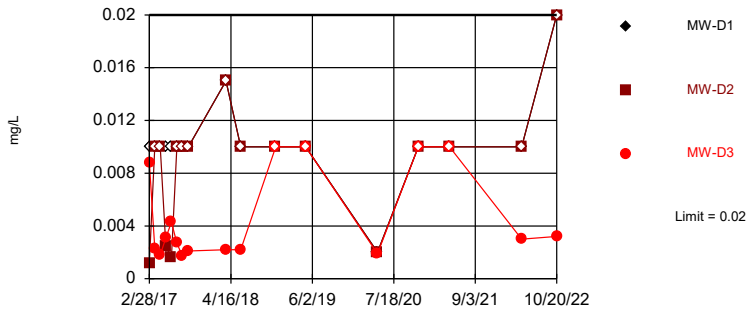
Hollow symbols indicate censored values.

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. 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: Molybdenum Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events thr

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

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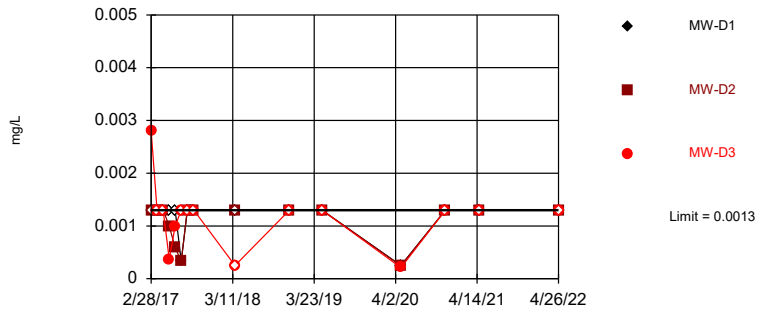
Hollow symbols indicate censored values.

Within Limit

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because 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 15 background values. 53.33% 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: Selenium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events throug

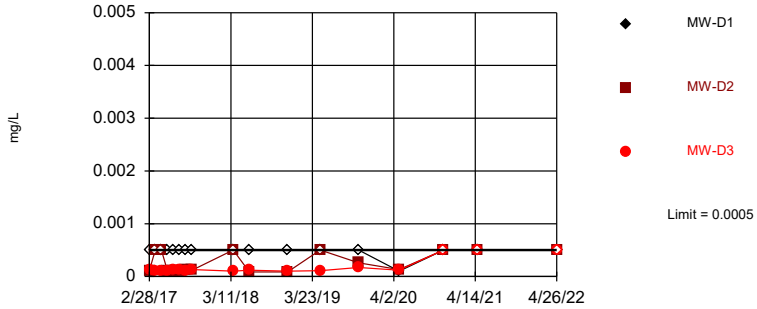
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

Sanitas™ v.9.6.32 Software licensed to Geosyntec Consultants. UG
Hollow symbols indicate censored values.

Within Limit

Tolerance Limit

Interwell Non-parametric



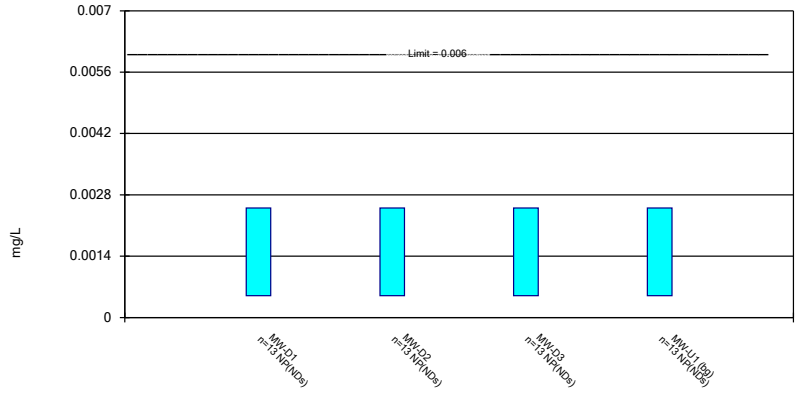
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Most recent observation is compared with limit. All background values were censored; limit is most recent reporting limit. 76.37% coverage at alpha=0.01; 83.79% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4181.

Constituent: Thallium Analysis Run 1/16/2023 10:45 AM View: Sanitas_Statistics Sampling Events throug

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

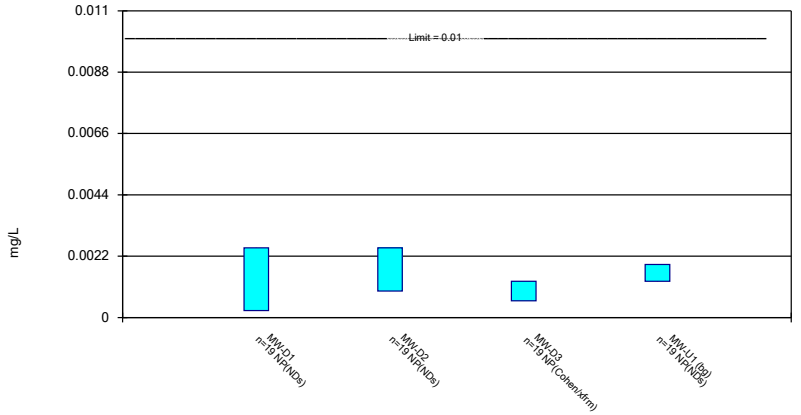


Constituent: Antimony Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events throug

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

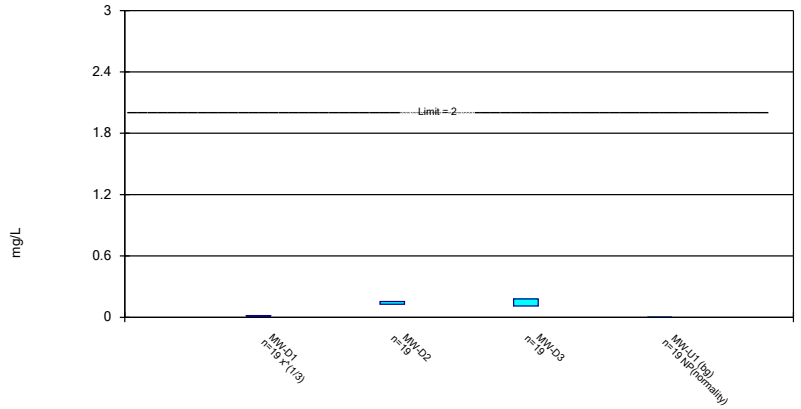


Constituent: Arsenic Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through

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

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.

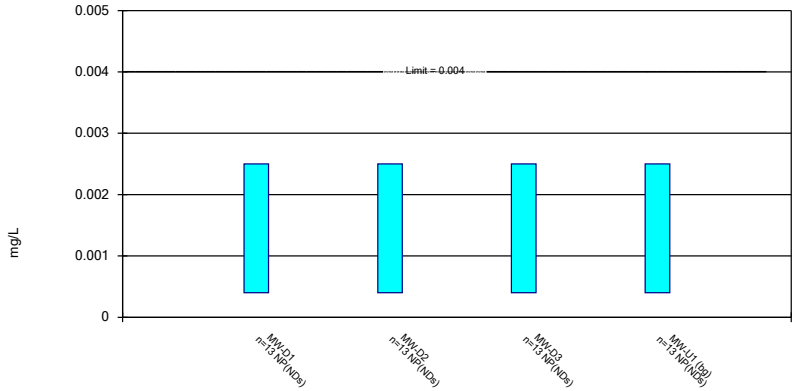


Constituent: Barium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

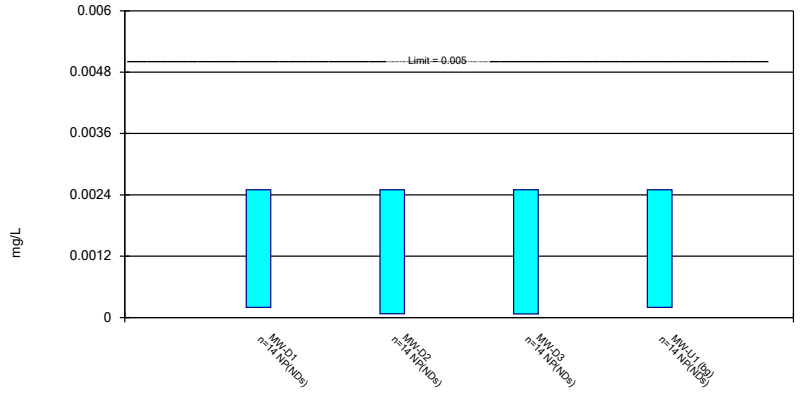


Constituent: Beryllium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events throug

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events throu

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

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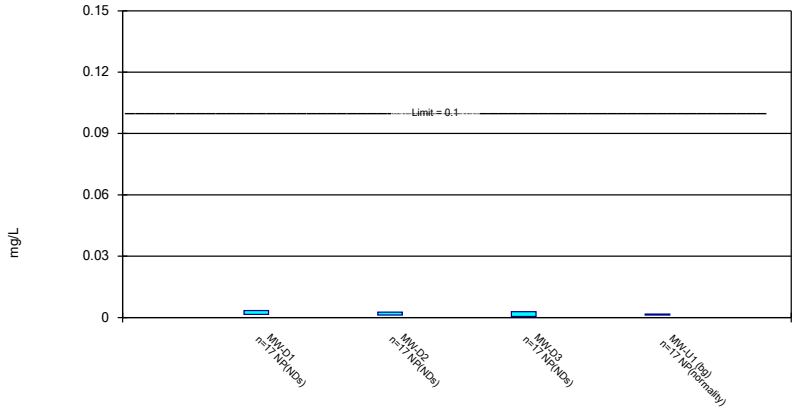
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events throu

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

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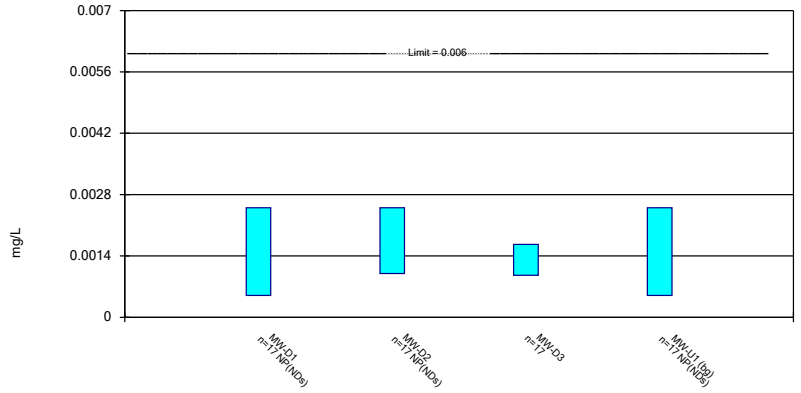
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



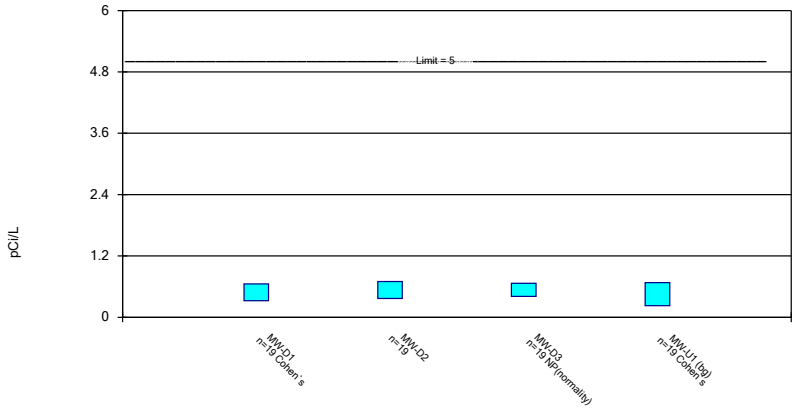
Constituent: Cobalt Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through

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

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.

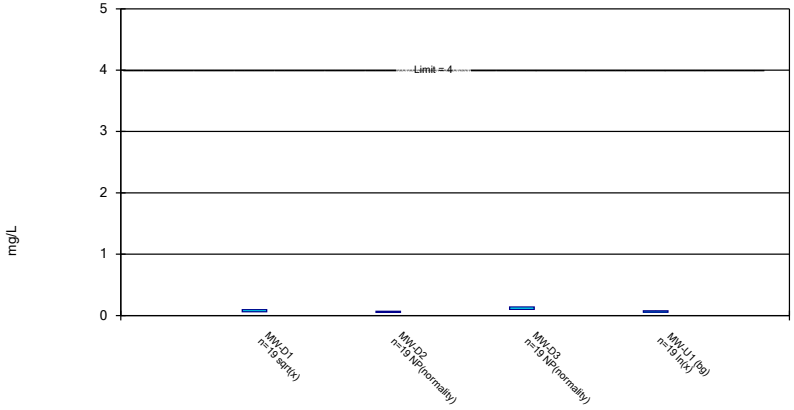


Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sa

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

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.

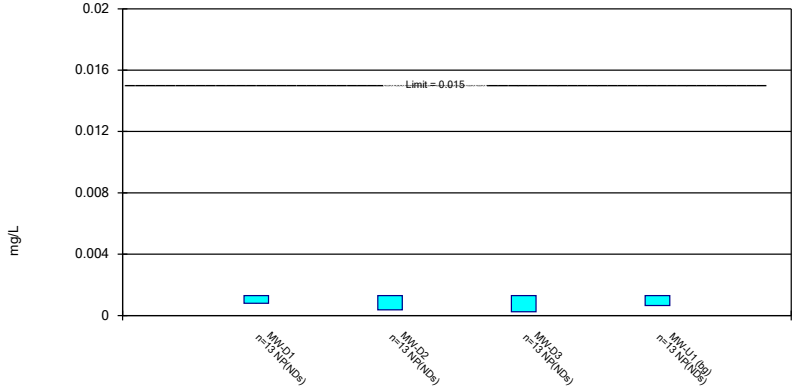


Constituent: Fluoride Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

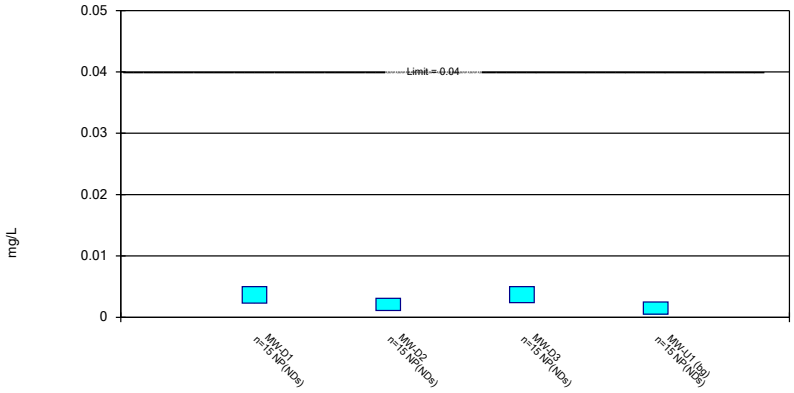


Constituent: Lead Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through 19

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

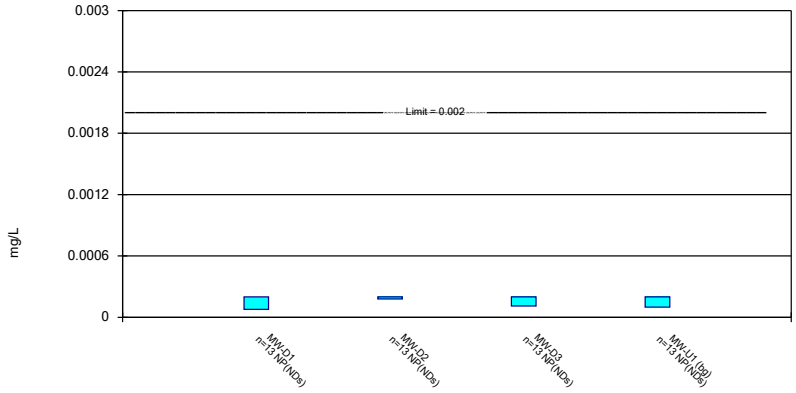


Constituent: Lithium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

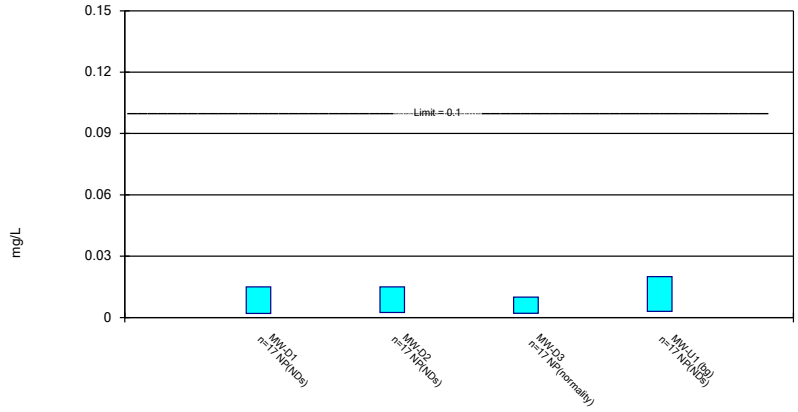


Constituent: Mercury Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events through

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

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events thr

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

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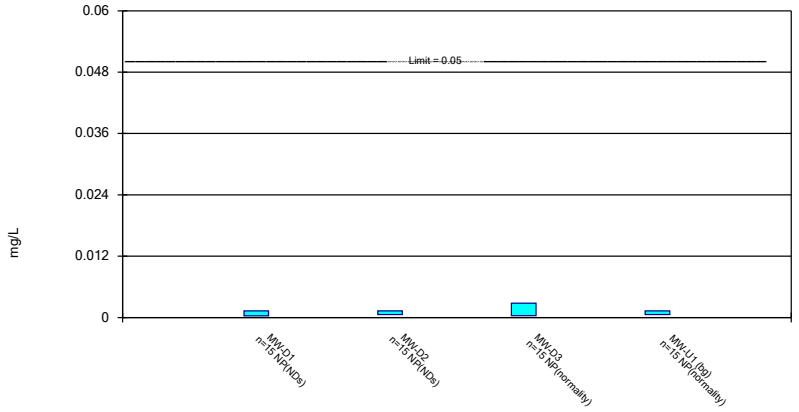
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events throug

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

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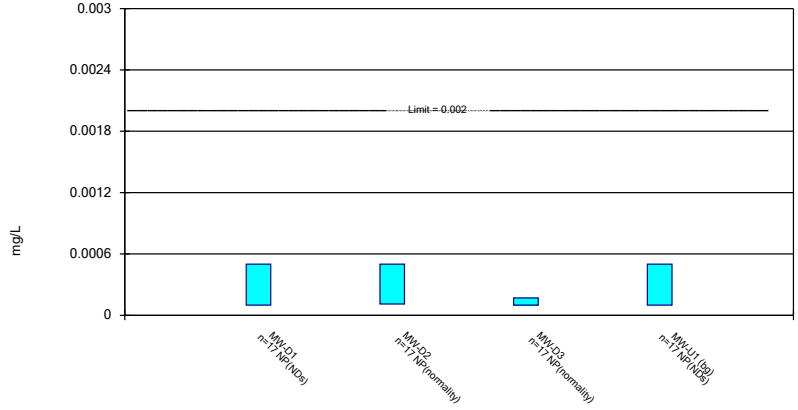
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/16/2023 10:49 AM View: Sanitas_Statistics Sampling Events throug

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

Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-D1	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D2	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D3	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.006	n/a	No	13	0.002346	0.0005547	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D1	0.0025	0.00025	0.01	n/a	No	19	0.001308	0.0003757	100	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D2	0.0025	0.00095	0.01	n/a	No	19	0.001223	0.0004348	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D3	0.0013	0.0006	0.01	n/a	No	19	0.001057	0.0004897	26.32	None	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	MW-U1 (bg)	0.0019	0.0013	0.01	n/a	No	19	0.00129	0.000461	78.95	None	No	0.01	NP (NDs)
Barium (mg/L)	MW-D1	0.01706	0.01174	2	n/a	No	19	0.0147	0.004992	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MW-D2	0.1551	0.1278	2	n/a	No	19	0.1414	0.0233	0	None	No	0.01	Param.
Barium (mg/L)	MW-D3	0.1797	0.1109	2	n/a	No	19	0.1453	0.05877	0	None	No	0.01	Param.
Barium (mg/L)	MW-U1 (bg)	0.0026	0.002	2	n/a	No	19	0.002521	0.0009761	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-D1	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D2	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D3	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-U1 (bg)	0.0025	0.0004	0.004	n/a	No	13	0.001915	0.0004758	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D1	0.0025	0.0002	0.005	n/a	No	14	0.00105	0.0004686	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D2	0.0025	0.000075	0.005	n/a	No	14	0.001041	0.0004869	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D3	0.0025	0.000071	0.005	n/a	No	14	0.001041	0.0004875	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-U1 (bg)	0.0025	0.0002	0.005	n/a	No	14	0.00105	0.0004686	100	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D1	0.0034	0.0015	0.1	n/a	No	17	0.002524	0.0008678	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D2	0.0026	0.0012	0.1	n/a	No	17	0.002388	0.0006698	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D3	0.0029	0.0005	0.1	n/a	No	17	0.002476	0.0005911	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-U1 (bg)	0.0017	0.0012	0.1	n/a	No	17	0.001882	0.00124	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-D1	0.0025	0.0005	0.006	n/a	No	17	0.002382	0.0004851	100	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D2	0.0025	0.001	0.006	n/a	No	17	0.002292	0.0005936	88.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D3	0.001665	0.0009601	0.006	n/a	No	17	0.001312	0.0005622	11.76	None	No	0.01	Param.
Cobalt (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.006	n/a	No	17	0.002265	0.0006642	100	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MW-D1	0.6538	0.325	5	n/a	No	19	0.4356	0.2374	21.05	Cohen`s	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-D2	0.7006	0.3686	5	n/a	No	19	0.5346	0.2835	26.32	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-D3	0.666	0.409	5	n/a	No	19	0.5745	0.2755	31.58	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	0.6789	0.2259	5	n/a	No	19	0.327	0.2553	26.32	Cohen`s	No	0.01	Param.
Fluoride (mg/L)	MW-D1	0.09629	0.06196	4	n/a	No	19	0.08079	0.03198	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-D2	0.07	0.05	4	n/a	No	19	0.06521	0.0191	5.263	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D3	0.14	0.1	4	n/a	No	19	0.1242	0.03469	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-U1 (bg)	0.07756	0.05365	4	n/a	No	19	0.06779	0.02351	10.53	None	ln(x)	0.01	Param.
Lead (mg/L)	MW-D1	0.0013	0.0008	0.015	n/a	No	13	0.001181	0.0003119	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D2	0.0013	0.00037	0.015	n/a	No	13	0.001086	0.0004096	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-D3	0.0013	0.00025	0.015	n/a	No	13	0.001219	0.0002912	100	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-U1 (bg)	0.0013	0.00065	0.015	n/a	No	13	0.001169	0.0003295	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D1	0.005	0.0023	0.04	n/a	No	15	0.00252	0.0008571	93.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D2	0.0031	0.0011	0.04	n/a	No	15	0.00248	0.0009473	86.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D3	0.005	0.0024	0.04	n/a	No	15	0.002445	0.0009156	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-U1 (bg)	0.0025	0.0005	0.04	n/a	No	15	0.002223	0.0007325	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D1	0.0002	0.000077	0.002	n/a	No	13	0.000...	0.0000...	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D2	0.0002	0.00018	0.002	n/a	No	13	0.000...	0.0000...	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D3	0.0002	0.00011	0.002	n/a	No	13	0.000...	0.0000...	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-U1 (bg)	0.0002	0.000099	0.002	n/a	No	13	0.000...	0.0000...	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D1	0.015	0.002	0.1	n/a	No	17	0.01041	0.003411	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D2	0.015	0.0025	0.1	n/a	No	17	0.008959	0.00484	82.35	None	No	0.01	NP (NDs)

Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 1/16/2023, 10:50 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	MW-D3	0.01	0.0021	0.1	n/a	No	17	0.004665	0.003458	23.53	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-U1 (bg)	0.02	0.003	0.1	n/a	No	17	0.009706	0.003636	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D1	0.0013	0.00033	0.05	n/a	No	15	0.001165	0.0003557	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D2	0.0013	0.00059	0.05	n/a	No	15	0.001098	0.0003804	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D3	0.0028	0.00037	0.05	n/a	No	15	0.001175	0.0006131	73.33	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-U1 (bg)	0.0013	0.00058	0.05	n/a	No	15	0.000...	0.0003819	53.33	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D1	0.0005	0.0001	0.002	n/a	No	17	0.000...	0.0000...	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-D2	0.0005	0.00011	0.002	n/a	No	17	0.000...	0.0001939	41.18	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-D3	0.00017	0.0001	0.002	n/a	No	17	0.000185	0.0001512	17.65	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-U1 (bg)	0.0005	0.0001	0.002	n/a	No	17	0.000...	0.0000...	100	None	No	0.01	NP (NDs)

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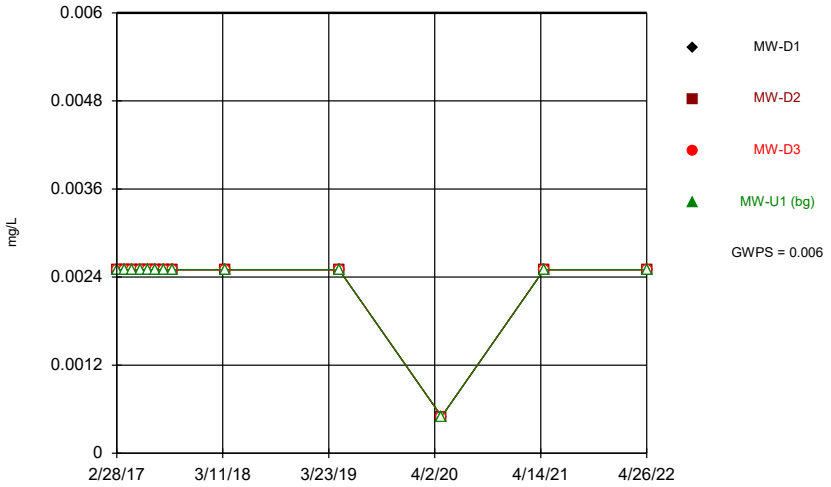
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events throug

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

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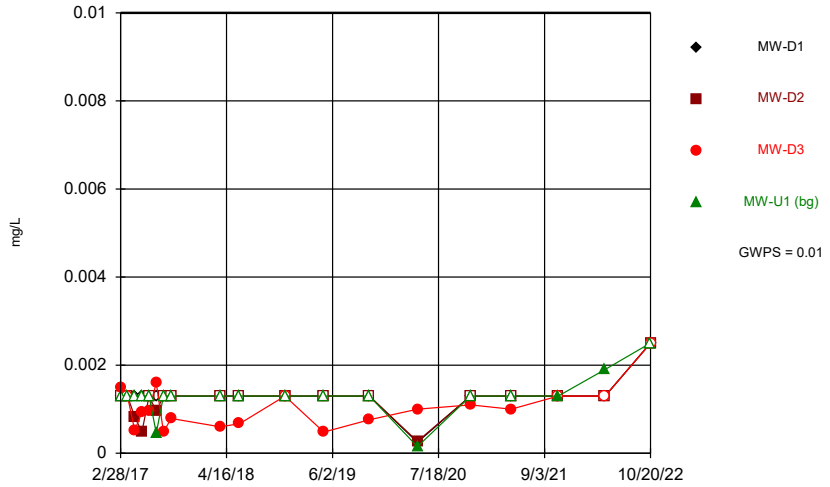
Time Series



Constituent: Arsenic Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through

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

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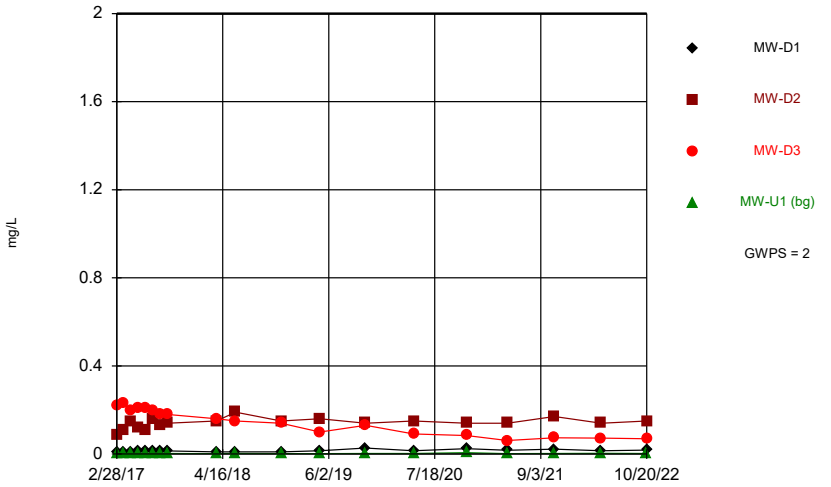
Time Series



Constituent: Barium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through

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

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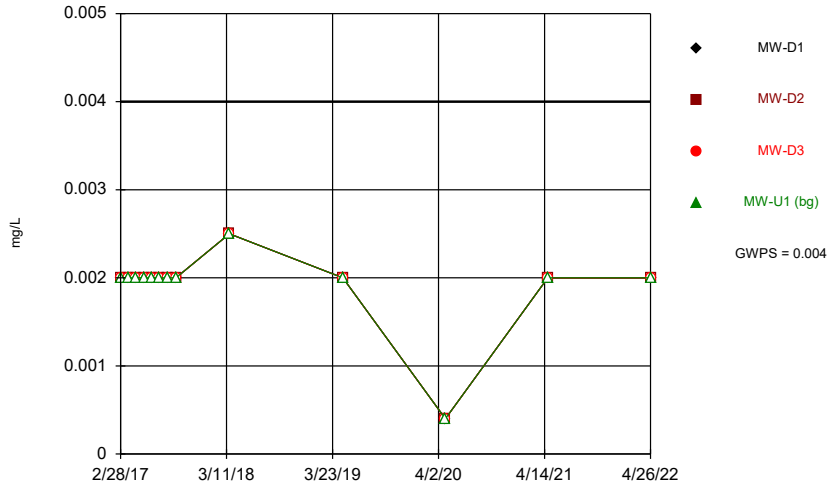
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events throug

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

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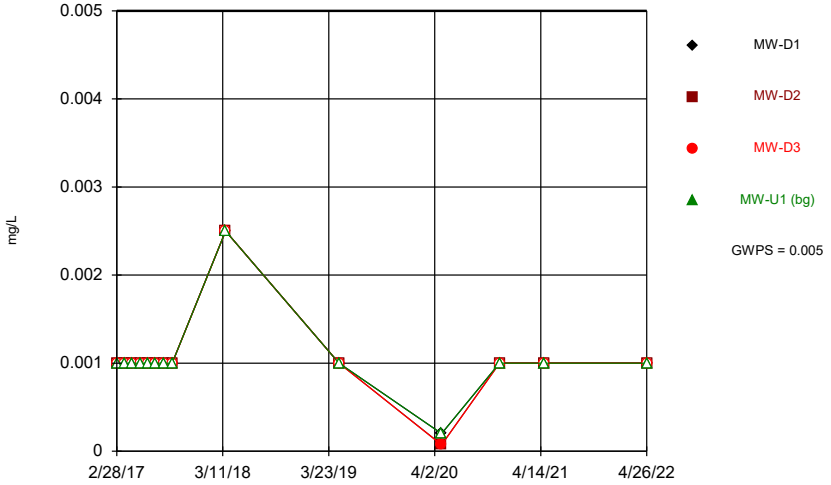
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events throu

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

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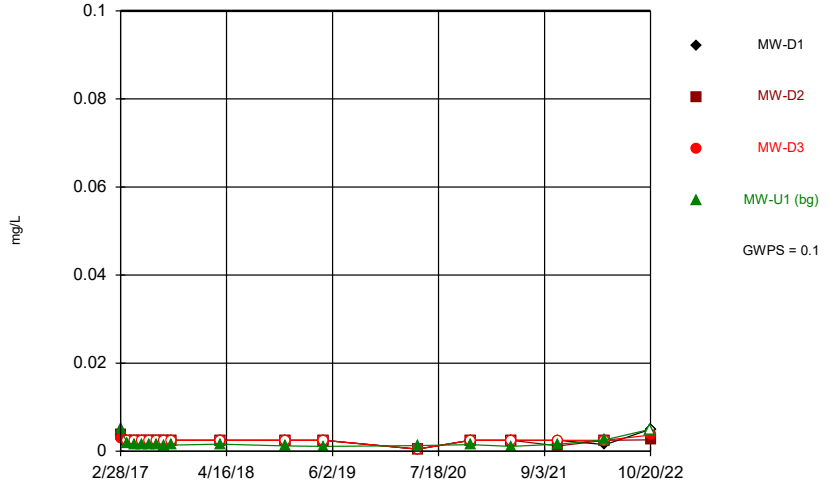
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events throu

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

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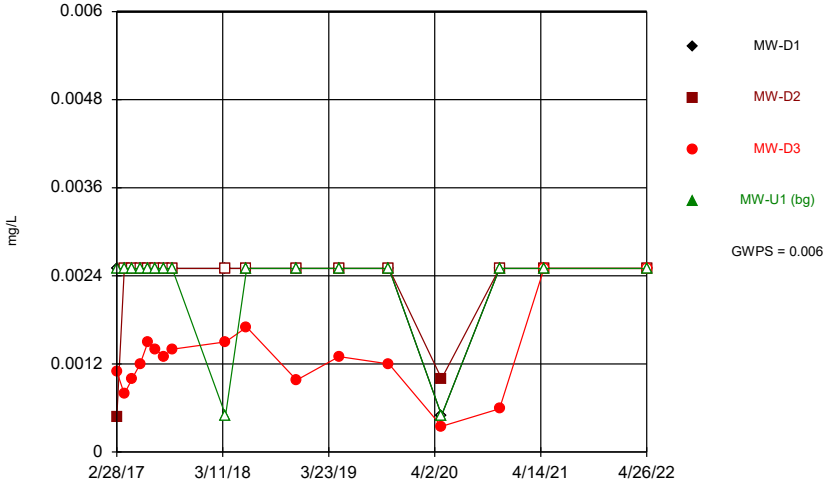
Hollow symbols indicate censored values.

Time Series

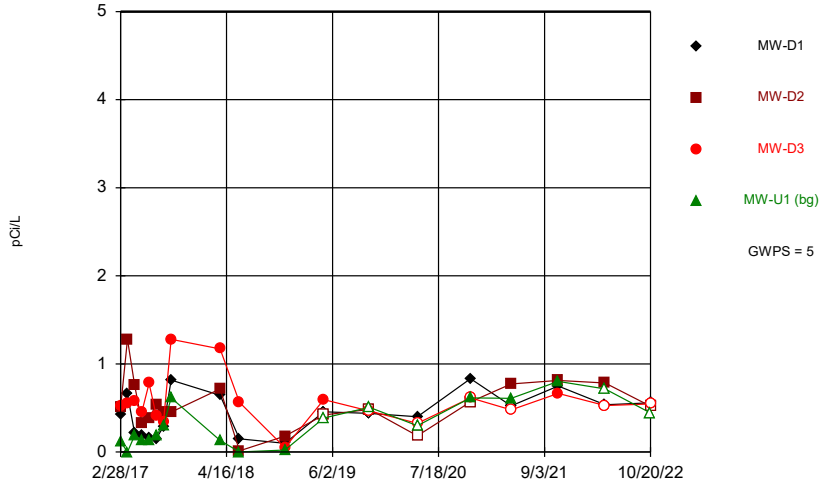


Constituent: Cobalt Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through

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: Combined Radium 226 + 228 Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sa

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

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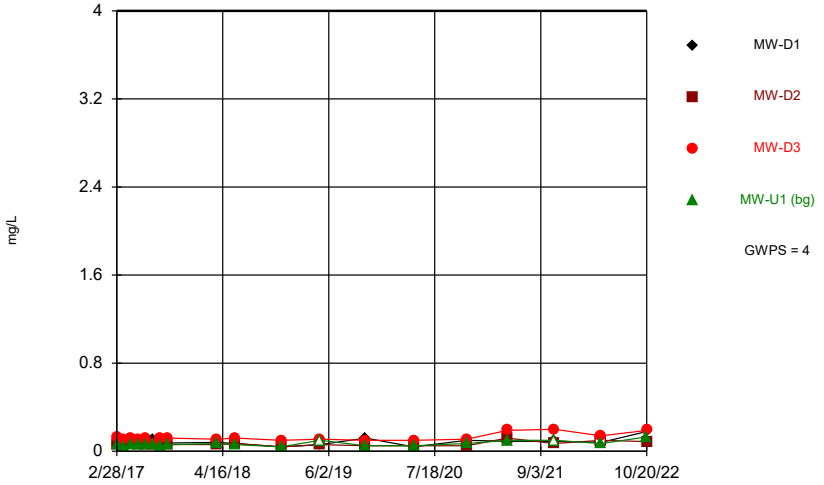
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through

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

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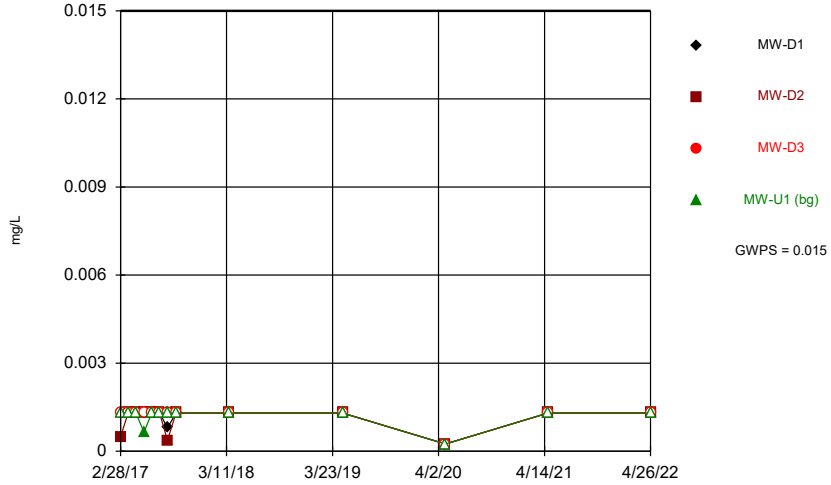
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through 19

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

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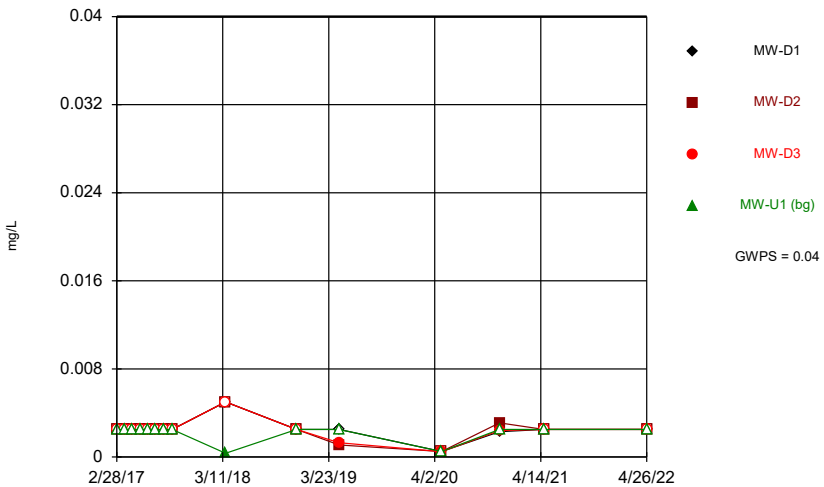
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through

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

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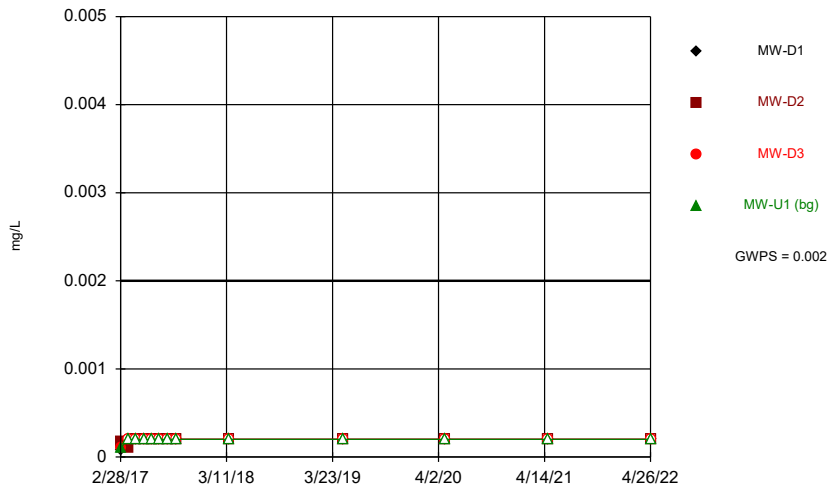
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events through

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

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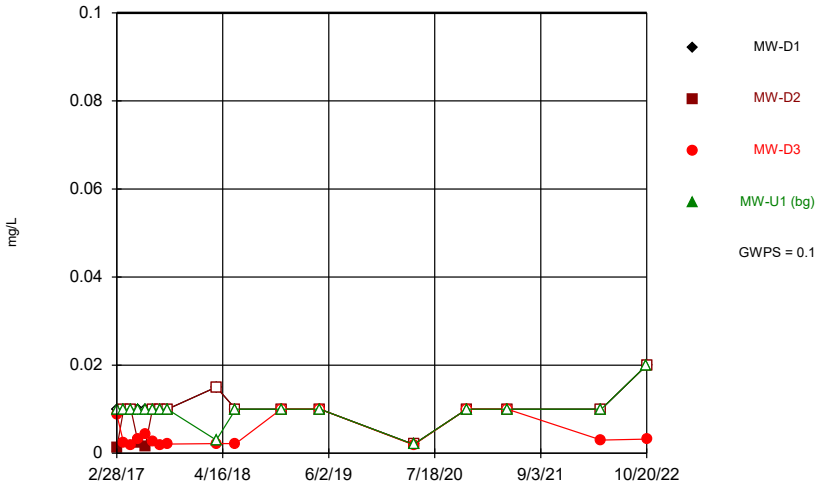
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events thr

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

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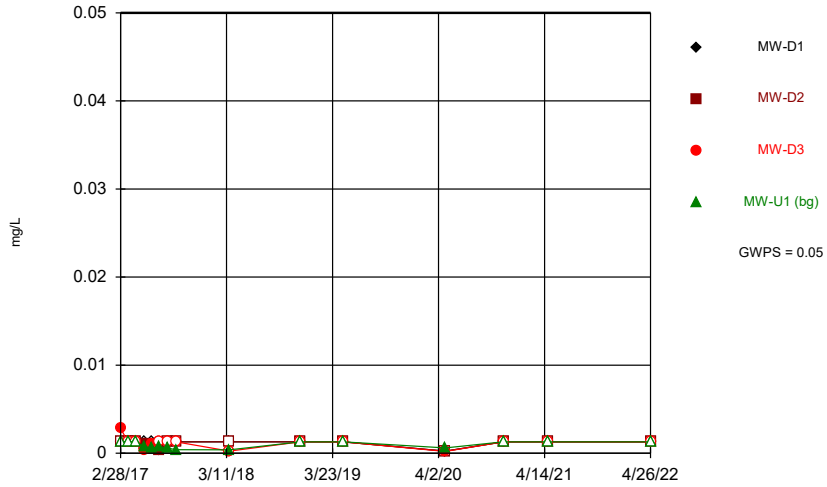
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events throug

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

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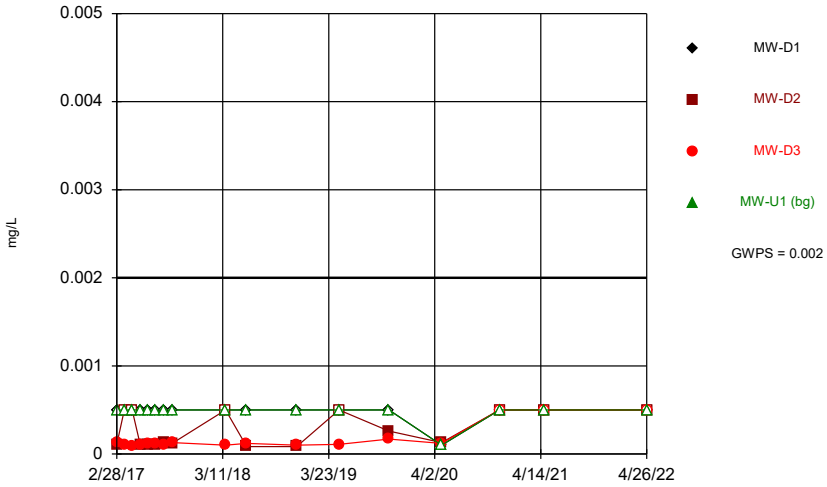
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 1/16/2023 10:53 AM View: Sanitas_Statistics Sampling Events throug

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