Prepared for

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

2021 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

CRISP COUNTY POWER COMMISSION
PLANT CRISP ASH POND
Warwick, Georgia

Prepared by

Geosyntec consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

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Geosyntec
consultants

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.

JIMMY WHITMER

Printed Name of Qualified Groundwater Scientist

PG001302 — Registration No.

Georgia — Registration State

7/30/2021

Stamp/Signature/Date

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LIST OF ACRONYMS

CCPC	Crisp County Power Commission
CCR	Coal Combustion Residuals
C.F.R.	Code of Federal Regulations
DNR	Department of Natural Resources
DO	Dissolved Oxygen
ft/day	Feet per Day
ft/ft	Feet per Foot
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
RSL	Regional Screening Levels
SESD	Science and Ecosystem Support Division
SOP	Standard Operating Procedure
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
s.u.	Standard Unit
USEPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit

EXECUTIVE SUMMARY

Crisp County Power Commission (CCPC) has been monitoring the groundwater quality at the Plant Crisp Ash Pond (ash pond) in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule [40 Code of Federal Regulations (C.F.R.) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rule for CCR (391-3-4-.10). The timeline and status of the monitoring program and the relevant findings and conclusions derived for the reporting period (i.e., between January and June 2021) are summarized as follows:

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

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

- Pursuant to Rule 391-3-4-.10(6), no Statistically Significant Levels above the Groundwater Protection Standards were identified during the reporting period.

- Pursuant to 40 C.F.R. §257.95(d)(1) and GA EPD CCR Rule, assessment monitoring will continue at the ash pond. The next assessment report will be submitted to the GA EPD in January 2022.

1.0 INTRODUCTION

1.1 Overview

Geosyntec Consultants (Geosyntec) of Kennesaw, Georgia, at the request of Crisp County Power Commission (CCPC), prepared this 2021 Semi-Annual Groundwater Monitoring Report for the ash pond located at CCPC's Plant Crisp. 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 the subsequently enacted Section 391-3-4-.10(6) of the Georgia Environmental Protection Division (GA EPD) Coal Combustion Residuals (CCR) Rule (eff. March 28, 2018).

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 for this reporting period consisted of performing a semi-annual monitoring event in April 2021. The April 2021 assessment monitoring event was performed for constituents listed in Appendix III to part §257 (referred herein as Appendix III constituents) and Appendix IV to part §257 (referred herein as Appendix IV constituents) (40 C.F.R. §257.95(b)). The groundwater monitoring and statistical analysis were performed consistent with the Groundwater Monitoring and Statistical Analysis Plan prepared for the ash pond in October 2017 and revised in December 2019.

The purpose of this report is to present a summary of the April 2021 groundwater assessment monitoring activities and associated laboratory and statistical analysis results. The report has been prepared to meet the semi-annual reporting requirements of GA EPD CCR Rule 391-3-4-.10(6)(c)[1].

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

In summary, the April 2021 sampling event detected concentrations of 40 C.F.R. §257, Appendix IV constituents, but at concentrations below their respective USEPA's maximum contaminant levels (MCLs).

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. 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 19 November 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 rule 391-3-4- .10 and other GA EPD regulations as applicable. GA EPD issued a permit on August 17, 2020.

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 has embankments on the western and partially southern and northern sides. The maximum embankment height is on the west end and is approximately 22 feet [Rizzo Associates, 2015]. The ash pond was classified as a low hazard unit during the United States Environmental Protection Agency's (USEPA) coal combustion residuals impoundment assessment, dated February 2014 and conducted by CDM Smith [CDM Smith, 2014].

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} cm/sec (0.41 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. 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 certified well network by a qualified groundwater scientist will be performed by 2022 (i.e., within five years after installation).

2.0 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS RESULTS

2.1 Groundwater Sampling and Laboratory Analysis

The groundwater assessment monitoring event for this reporting period was conducted on April 26, 2021. The groundwater samples were collected in accordance with the USEPA Science and Ecosystem Support Division (SESD) Standard Operating Procedure (SOP No. SESDPROC-301-R4) [USEPA, Athens, Georgia, 2017]. Prior to sampling, depth to groundwater and total well depth were measured for each monitoring well using an electrical water level indicator. The water level indicator was cleaned between wells following the decontamination procedure listed under SESDPROC-205-R3 [USEPA, Athens, Georgia, 2015]. Depth to groundwater data and groundwater elevations are summarized in **Table 2**. The groundwater elevation data was used to prepare a potentiometric surface map, provided as **Figure 2**. Based on the potentiometric surface map, groundwater flow direction is from southeast towards northwest with a hydraulic gradient of approximately 0.012 ft/ft (**Table 3**). The average horizontal groundwater flow velocity was calculated using Darcy's equation as approximately 8.7 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 Hach 2100P 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;
- 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 groundwater samples were analyzed for Appendix III constituents (i.e., boron, calcium, chloride, fluoride, sulfate, total dissolved solids) and Appendix IV constituents (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226 and 228 combined, selenium, and thallium). The metal constituents were analyzed as total recoverable as the samples were not field-filtered. Radium was analyzed at Eurofins Test America Laboratories in St. Louis, MO. Groundwater pH, also an Appendix III constituent, was measured in the field using a Horiba water quality meter.

Field duplicate samples (DUP-16) was collected from MW-D3 for quality assurance/quality control (QA/QC). The duplicate sample was collected in laboratory-provided bottles and submitted under the same chain-of-custody as the primary samples for analysis of the same parameters by Test America laboratories.

2.2 Groundwater Monitoring Results

Laboratory analytical results for Appendix III constituents from the April 2021 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 (arsenic, barium, fluoride, and radium 226 and 228 combined) were detected in the downgradient monitoring wells. Similarly, low levels of barium, chromium, fluoride, and radium 226 and 228 combined 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 maximum contaminant levels (MCLs). Low level Appendix IV constituents detected during the April 2021 monitoring event can be naturally occurring as some of these constituents were also detected at low concentrations in the background well. Laboratory reports are included in **Appendix B**.

The April 2021 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 ASSESSMENT MONITORING 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, 2020b]. 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 IV constituents.

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

(i) To calculate statistically derived background concentration for each Appendix IV constituent. The statistically derived background concentration is used as Groundwater Protection Standard (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 40 C.F.R. §141.66) or the standard listed under 40 C.F.R. §257.95 (h)(2) for those constituents without an established MCL.

(ii) To construct a lower confidence interval for each 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.

3.1 GWPS for Appendix IV Constituents

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 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), 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.

- USEPA's updated GWPS have not yet been incorporated under GA EPD's CCR Rule[2]. The GWPS based on the GA EPD CCR Rule is:

  (1) the federally established MCL for Appendix IV constituents.

  (2) where an MCL has not been established, the background concentration for Appendix IV constituents.

  (3) background levels for constituents where the background level is higher than the MCL for Appendix IV constituents.

3.2 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.

[2] GA EPD has adopted Federal CCR Rule as provided in 80 Fed. Reg. 21468 (April 17, 2015); as amended at 80 Fed. Reg. 37988 (July 2, 2015) and 81 Fed. Reg. 51807 (August 5, 2016). Portions of these federal rules have since been repealed. See, e.g. 83 Fed. Reg. 36,435 (July 30, 2018).

4.0 STATISTICAL ANALYSIS RESULTS

The statistical analysis results are summarized in **Table 6**, 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 7 shows the lower confidence limit constructed for each 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 monitoring period. The Sanitas™ statistical calculations and time-series graphs for each constituent are provided in **Appendix C**.

5.0 FUTURE GROUNDWATER MONITORING PROGRAM

Data collected during the assessment monitoring event indicated that Appendix IV constituents detected in the downgradient monitoring wells were below their respective GWPS. Pursuant to the CCR Rule 40 C.F.R. §257.95(d)(1) and GA EPD's CCR Rules, CCPC will continue groundwater sampling semi-annually for Appendix III and Appendix IV constituents. The next semi-annual groundwater monitoring report will be submitted by 31 January 2022 pursuant to the Georgia rule 391-3-4-.10(6)(c).

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	Northing	TOC Elevation (ft, MSL)	Screen Interval Elevation (ft, MSL)
MW-D1	Downgradient	2/22/2017	23.16	2365315.12	670708.47	241.77	218.85-228.85
MW-D2	Downgradient	2/21/2017	23.37	2365308.73	671291.61	232.66	209.64-219.64
MW-D3	Downgradient	2/22/2017	23.54	2365715.53	671291.07	233.78	210.52-220.52
MW-U1	Upgradient	2/23/2017	36.95	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

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

Well ID	TOC Elevation (ft, MSL)	4/26/2021	
		Depth to Groundwater (ft, BTOC)	Groundwater Elevation (ft, MSL)
MW-D1	241.77	14.2	227.57
MW-D2	232.66	12.45	220.21
MW-D3	233.78	5.61	228.17
MW-U1	249.52	9.52	240.00
Lake Blackshear	--	--	236.91*

Notes:
ft = feet
MSL = mean sea level.
TOC = Top of casing
BTOC = Below top of casing
*: Surface water elevation

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

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]
4/26/2021	240.00	220.21	1,710	0.012	0.41	0.20	8.7

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h1 and h2 = groundwater elevation for MW-U1 and MW-D2, 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-D2.

ηe = effective porosity (estimated based on fine-grained sand aquifer) (Kresic, 2007)

V = groundwater flow velocity

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

Table 4. Appendix III Analytical Data Summary - Sampling Performed on April 26, 2021
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix III to 40 CFR Part 257 - Constituents for Detection Monitoring

Constituent	Unit	MCL[1]	MDL[2]	Upgradient Well ID	Downgradient Well ID			
				MW-U1	MW-D1	MW-D2	MW-D3	
							MW-D3	DUP-16
Boron	mg/L	N/A	0.018	ND ^3+	0.17	0.12	0.19	0.19
Calcium	mg/L	N/A	0.63	33	29	120	93 B^5-	100
Chloride	mg/L	N/A	1.4	ND F1	1.6 J	5.0	3.9	3.9
Fluoride	mg/L	4	0.032	0.1 B	0.090 JB	0.12 B	0.19 B	0.22 B
Sulfate	mg/L	N/A	1.4	1.8 J	26	16	28	29
pH[3]	SU	N/A	--	7.91	6.82	6.87	7.02	7.03
Total Dissolved Solids	mg/L	N/A	5.0	98	110	370	360	350

Notes:

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.
F1 - MS and/or MSD recovery exceeds control limits.
^3+ - Reporting Limit Check Standard is outside acceptance limits, high biased
^5- - Linear Range Check (LRC) is outside acceptance limits, low biased.
SU - standard unit.
N/A - not applicable because the constituent does not have an MCL.
-- There is no MDL for pH.
1. MCLs indicate USEPA maximum contaminant levels. MCLs are established under 40 CFR §141.62 and 40 CFR §141.66.
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 April 26, 2021
Crisp County Power Commission
Plant Crisp Ash Pond

Appendix IV to 40 CFR Part 257 - Constituents for Assessment Monitoring

Constituent	Unit	MCL[1]	USEPA's Health-Based Level[2]	MDL[3]	Upgradient Well ID	Downgradient Well ID			
					MW-U1	MW-D1	MW-D2	MW-D3	
								MW-D3	DUP-16
Antimony	mg/L	0.006	N/A	0.0015	ND	ND	ND	ND	ND
Arsenic	mg/L	0.01	N/A	0.000390	ND	ND	ND	0.0010 J	0.00080 J
Barium	mg/L	2	N/A	0.00070	0.0021 J	0.017	0.14	0.061	0.065
Beryllium	mg/L	0.004	N/A	0.000170	ND	ND	ND	ND	ND
Cadmium	mg/L	0.005	N/A	0.000280	ND	ND	ND	ND	ND
Chromium	mg/L	0.1[4]	N/A	0.0010	0.0011 J	ND	ND	ND	ND
Cobalt	mg/L	N/A	0.006	0.00056	ND	ND	ND	ND	ND
Fluoride	mg/L	4	N/A	0.032	0.10 B	0.09 JB	0.12 B	0.19 B	0.22 B
Lead	mg/L	0.015[5]	N/A	0.000290	ND	ND	ND	ND	ND
Lithium	mg/L	N/A	0.04	0.0019	ND	ND	ND	ND	ND
Mercury	mg/L	0.002[6]	N/A	0.00007	ND	ND	ND	ND	ND
Molybdenum	mg/L	N/A	0.1	0.0045	ND	ND	ND	ND	ND
Radium 226 and 228 Combined	pCi/L	5	N/A	--[7]	0.609	-0.033 U	0.773	0.352 U	0.395 U
Selenium	mg/L	0.05	N/A	0.00082	ND	ND	ND	ND	ND
Thallium	mg/L	0.002	N/A	0.000120	ND	ND	ND	ND	ND

Notes:

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

B - compound was found in the blank and sample.

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. MDL indicates minimum detection limit, which is the minimum concentration of analyte that can be measured and reported.
4. MCL value for total chromium.
5. Lead Treatment Technology Action Level is 0.015 mg/L.
6. Value for inorganic mercury.
7. During the analysis of radium, background concentrations are substracted, thus each sample have a different Minimum Detectable Concentration (MDC). The MDCs were as follows: 0.451 pCi/L for MW-U1, 0.524 pCi/L for MW-D1, 0.440 pCi/L for MW-D2, 0.478 pCi/L for MW-D3, and 0.597 pCi/L for DUP-14.

Table 6. 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 Groundwater Protection Standard (GWPS) for the Site
Antimony [mg/L]	MW-U1	12	12	100%	<0.0005	<0.0025	0.0025	0.006	0.006
	MW-D1	12	12	100%	<0.0005	<0.0025			
	MW-D2	12	12	100%	<0.0005	<0.0025			
	MW-D3	12	12	100%	<0.0005	<0.0025			
Arsenic [mg/L]	MW-U1	16	14	88%	0.00015 (JB)	<0.0013	0.0013	0.01	0.01
	MW-D1	16	16	100%	<0.00025	<0.0013			
	MW-D2	16	12	75%	0.00027 (B)	<0.0013			
	MW-D3	16	2	13%	0.00048 (J)	0.0016			
Barium [mg/L]	MW-U1	16	0	0%	0.0018	0.0062	0.0062	2	2
	MW-D1	16	0	0%	0.0095	0.027			
	MW-D2	16	0	0%	0.087	0.190			
	MW-D3	16	0	0%	0.061	0.230			
Beryllium [mg/L]	MW-U1	12	12	100%	<0.0004	<0.0025	0.002	0.004	0.004
	MW-D1	12	12	100%	<0.0004	<0.0025			
	MW-D2	12	12	100%	<0.0004	<0.0025			
	MW-D3	12	12	100%	<0.0004	<0.0025			
Cadmium [mg/L]	MW-U1	13	13	100%	<0.0002	<0.0025	0.001	0.005	0.005
	MW-D1	13	13	100%	<0.0002	<0.0025			
	MW-D2	13	12	92%	0.000075 (J)	<0.0025			
	MW-D3	13	12	92%	0.000071 (J)	<0.0025			
Chromium [mg/L]	MW-U1	14	0	0%	0.0011	0.0051	0.0051	0.1	0.1
	MW-D1	14	13	93%	<0.0005	0.0034			
	MW-D2	14	13	93%	<0.0005	0.0038			
	MW-D3	14	13	93%	<0.0005	0.0029			
Cobalt [mg/L]	MW-U1	16	16	100%	<0.0005	<0.0025	0.0025	0.006	0.0025*
	MW-D1	16	16	100%	<0.0005	<0.0025			
	MW-D2	16	14	88%	0.00047 (J)	<0.0025			
	MW-D3	16	1	6%	0.00035 (J)	<0.0025			
Fluoride [mg/L]	MW-U1	16	1	6%	0.040	0.100	0.12	4	4
	MW-D1	16	0	0%	0.040	0.120			
	MW-D2	16	0	0%	0.040	0.190			
	MW-D3	16	0	0%	0.060	0.130			
Lead [mg/L]	MW-U1	12	11	92%	<0.00025	<0.0013	0.0013	0.015	0.0013*
	MW-D1	12	11	92%	<0.00025	<0.0013			
	MW-D2	12	10	83%	<0.00025	<0.0013			
	MW-D3	12	12	100%	<0.00025	<0.0013			
Lithium [mg/L]	MW-U1	14	13	93%	0.00034 (J)	<0.0025	0.0025	0.04	0.0025*
	MW-D1	14	13	93%	<0.0005	<0.005			
	MW-D2	14	12	86%	<0.0005	<0.005			
	MW-D3	14	11	79%	0.00048 (J)	<0.005			
Mercury [mg/L]	MW-U1	12	11	92%	0.000099 (JB)	<0.0002	0.0002	0.002	0.002
	MW-D1	12	11	92%	0.000077 (JB)	<0.0002			
	MW-D2	12	10	83%	0.00011 (JB)	<0.0002			
	MW-D3	12	11	92%	0.00011 (JB)	<0.0002			
Molybdenum [mg/L]	MW-U1	15	15	100%	<0.002	<0.01	0.01	0.10	0.01*
	MW-D1	15	15	100%	<0.002	<0.015			
	MW-D2	15	12	80%	0.0012 (J)	<0.015			
	MW-D3	15	4	27%	0.0017 (J)	<0.01			
Radium 226 and 228 228 Combined [pCi/L]	MW-U1	16	3	19%	0.000	0.615	1.15	5	5
	MW-D1	16	3	19%	0.099	<5			
	MW-D2	16	4	25%	0.014	<5			
	MW-D3	16	4	25%	0.050	<5			
Selenium [mg/L]	MW-U1	14	7	50%	0.00039	<0.0013	0.0013	0.05	0.05
	MW-D1	14	13	93%	<0.00025	<0.0013			
	MW-D2	14	11	79%	<0.00025	<0.0013			
	MW-D3	14	10	71%	0.00021 (J)	0.0028			
Thallium [mg/L]	MW-U1	16	16	100%	<0.0001	<0.0005	0.0005	0.002	0.002
	MW-D1	16	16	100%	<0.0001	<0.0005			
	MW-D2	16	6	38%	0.000085 (J)	<0.0005			
	MW-D3	16	2	13%	0.000095 (J)	<0.0005			

Notes:
mg/L = milligrams per liter
pCi/L = picocuries per liter
ND = Not Detected
NA = Not Available
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.
*: The background level or UTL was selected as GWPS because USEPA's updated GWPS have not yet been incorporated under GA EPD Rule.

Table 7. 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 8)	Lower Confidence Limit if a constituent is Detected During the April 2021 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		0.00025	No
	MW-D2		0.00083	No
	MW-D3		0.00071	No
Barium [mg/L]	MW-U1	2	Background Well	
	MW-D1		0.01	No
	MW-D2		0.1234	No
	MW-D3		0.1244	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		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Cobalt [mg/L]	MW-U1	0.0025	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Fluoride [mg/L]	MW-U1	4	Background Well	
	MW-D1		0.06	No
	MW-D2		0.05	No
	MW-D3		0.1	No
Lead [mg/L]	MW-U1	0.0013	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Lithium [mg/L]	MW-U1	0.0025	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	0.01	Background Well	
	MW-D1		ND	No
	MW-D2		ND	No
	MW-D3		ND	No
Radium 226 and 228 228 Combined [pCi/L]	MW-U1	5	Background Well	
	MW-D1		0.153	No
	MW-D2		0.184	No
	MW-D3		0.339	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, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Aerial Photograph from June 2016.

Legend

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

0 250 500 1,000 Feet

Groundwater Monitoring Well Location Map

Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants	DATE:	JULY 2021
	PROJECT NO.	GW6152
	DOCUMENT NO.	GA 210xxx
	FILE NO.	GW MONITORING WELL LOCATION MAP.MXD
KENNESAW, GA	FIGURE NO.	1

\\Aro-01\prj1$\Crisp County\GIS\MXD\2021\GW Monitoing Well Location Map.mxd 6/10/2021 3:02:02 PM

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Aerial Photograph from June 2016.

Legend

- Groundwater Monitoring Well
- Groundwater Elevation Contour - 26 April 2021 (ft, MSL)
- Groundwater Flow Direction
- Ash Pond Limits
- CCPC Property Boundary

0 250 500 1,000 Feet

Potentiometric Surface Map
26 April 2021
Crisp County Power Commission
Warwick, Georgia

Geosyntec consultants
KENNESAW, GA

DATE:	JULY 2021
PROJECT NO.	GW6152
DOCUMENT NO.	GA 210xxx
FILE NO.	APRIL 2021 POTENTIOMETRIC SURFACE MAP.MXD
FIGURE NO.	2

N:\Crisp County\GIS\MXD\2021\April 2021 Potentiometric Surface Map.mxd 6/10/2021 4:00:40 PM

APPENDIX A

Field Groundwater Sampling Forms

WATER LEVEL MEASUREMENTS

Site Name: CRISP CO POWER
Location: WARWICK GA
Date: 4/26/21

Sampling Personnel: S. RANDALL
Field Conditions: CLEAR 60°

Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-D3	0830	~~0901~~	5.61	22.52		
MW-D2	0840	~~0911~~	12.45	22.40		
MW-D1	0850	~~0912~~	14.2	22.60		
MW-U1	0900	~~0931~~	9.52	37.15		
END	OF	DAY	WATER	LEVELS		
MW-D3	1630		5.67	22.52		
MW-D2	1635		12.54	22.40		
MW-D1	1640		14.02	22.60		
MW-U1	1650		9.48	37.15		

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-01-20210426	DATE: 4/26/21

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): 14.2	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) = (22.60 feet – 14.2 = 8.4 feet) X 0.16 gallons/foot = 1.25 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: 1255	PURGING ENDED AT: 1342	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1256	0.0	0.0	0.066	14.15	6.82	27.91	291	41.7	10	165	CLEAR
1317	1.25	1.25	0.066	14.25	6.20	24.27	191	58.0	2	198	CLEAR
1322	0.33	1.58	0.066	14.33	6.27	24.12	195	36.2	1	198	CLEAR
1327	0.33	1.91	0.066	14.15	6.24	24.11	195	33.8	1	199	CLEAR
1332	0.33	2.24	0.066	14.14	6.26	23.11	188	37.8	1	204	CLEAR
1337	0.33	2.57	0.066	14.13	6.25	23.31	189	38.0	1	205	CLEAR
1342	0.33	2.90	0.066	14.13	6.25	23.35	189	38.3	1	208	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: S. RANDALL	SAMPLER(S) SIGNATURE(S): Stephen W. Randall	SAMPLING INITIATED AT: 1345	SAMPLING ENDED AT: 1405
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: CLEAR, EXCELLENT
3. Sampling & Purging Equipment Condition: DO ERATIC.
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-D2-20210426	DATE: 4/26/21

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): 12.45	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) = (22.40 feet – 12.45 9.54 feet) X 0.16 gallons/foot = 1.66 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: 0955	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1000	0.0	0.0	0.066	12.8	6.87	19.66	571	9.2	13.0	134	CLEAR
1025	1.6	1.6	0.066	13.81	6.78	20.04	550	6.1	3.0	132	CLEAR
1030	0.33	1.93	0.066	13.91	6.79	20.13	551	4.9	2.0	132	CLEAR
1035	0.33	2.26	0066	14.04	6.80	20.33	551	4.7	1.0	128	CLEAR
1040	0.33	2.59	0.066	14.1	6.80	20.39	551	4.6	1.0	126	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: S. RANDALL	SAMPLER(S) SIGNATURE(S): Stephen W. Randall	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1105
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: NO PROBLEMS NOTED
3. Sampling & Purging Equipment Condition: EXCELLENT
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; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible 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

0800 DUP-16-20210426

SITE NAME: CRISP COUNTY POWER COMMISSION	SITE LOCATION: 961 Power Dam Road, Warwick, GA 31796	
WELL NO: MW-03	SAMPLE ID: MW-03-20210426	DATE: 4/26/21

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): 5.61	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) = (22.52 feet – 5.61 16.91 feet) X 0.16 gallons/foot = 2.70 2.75 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: 1110	PURGING ENDED AT: 1206	TOTAL VOLUME PURGED (gallons): 3.74

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1110	0.0	0.0	0.066	6.5	7.02	21.92	522	10.2	3	151	CLEAR
1151	2.75	2.75	0.066	7.95	7.03	26.17	462	3.4	1	115	CLEAR
1156	0.33	3.08	0.066	8.08	7.03	26.49	458	3.7	1	114	CLEAR
1201	0.33	3.41	0.066	8.08	7.03	26.94	455	3.2	1	111	CLEAR
1206	0.33	3.74	0.066	7.98	7.03	27.37	453	3.5	1	109	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: S. RANDALL	SAMPLER(S) SIGNATURE(S): Stephen W. Randall	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT: 1245
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: EXCELLENT, CLEAR
3. Sampling & Purging Equipment Condition: EXCELLENT
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-41	SAMPLE ID: MW-41-20210426	DATE: 4/26/2021

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): 9.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (37.15 feet − 9.52 27.4 feet) X 0.16 gallons/foot = 4.42 gallons 4.5

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
1 = 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: 1420	PURGING ENDED AT: 1555	TOTAL VOLUME PURGED (gallons): 5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mv)	COLOR (describe)
1422	0.0	0.0	0.066	9.9	7.91	29.53	149	5.31	5	125	CLEAR
1540	4.5	4.5	0.066	10.1	7.92	26.12	155	4.07	1	146	CLEAR
1545	0.33	4.83	0.066	10.1	7.92	26.19	155	4.08	1	147	CLEAR
1550	0.33	5.16	0.066	10.1	7.91	26.22	154	4.10	1	147	CLEAR
1555	0.33	5.49	0.066	10.2	7.92	26.15	155	4.14	1	147	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: Stephen W. Randall	SAMPLER(S) SIGNATURE(S): Stephen W. Randall	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1620
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: EXCELLENT, CLEAR
3. Sampling & Purging Equipment Condition: DO SEEMS TO HAVE CLEARED
4. Site Condition that may Affect Sampling Present? ____ Yes (describe below) ✓ No

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

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

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

APPENDIX B

Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-202647-1
Laboratory Sample Delivery Group: Crisp Co. Power
Client Project/Site: CCR App.III/IV GW Monitoring

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

Attn: Dawit Yifru

Cheyenne R Whitmire

Authorized for release by:
5/13/2021 11:33:04 AM

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

Table of Contents

Job ID: 400-202647-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-202647-1

Metals
Method 6020: The method blank for preparation batch 400-529524 and analytical batch 400-529803 contained Lithium 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: CRI recover outside SOP's criteria. The sample is ND; therefore, the data is reported. MW-U1-20210426 (400-202647-5)

Method 7470A: ICV was inadvertently omitted during the calibration process 400-529808. The associated laboratory control sample (LCS) met acceptance criteria and ICV passed when analyzed. Therefore, data is report. DUP-16-20210426 (400-202647-1), MW-D2-20210426 (400-202647-2), MW-D3-20210426 (400-202647-3), MW-D1-20210426 (400-202647-4), MW-U1-20210426 (400-202647-5), (LCS 400-529577/15-A), (MB 400-529577/14-A), (400-202594-Q-2-A), (400-202594-Q-2-B MS), (400-202594-Q-2-C MSD) and (400-202594-Q-2-A SD ^5)

General Chemistry
Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-531000 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 App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Client Sample ID: DUP-16-20210426 — Lab Sample ID: 400-202647-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00080	J	0.0013	0.00039	mg/L	5		6020	Total Recoverable
Barium	0.065		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.19		0.050	0.018	mg/L	5		6020	Total Recoverable
Calcium	100		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	350		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22	B	0.10	0.032	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	7.03				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D2-20210426 — Lab Sample ID: 400-202647-2

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	0.12		0.050	0.018	mg/L	5		6020	Total Recoverable
Calcium	120		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	370		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	5.0		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12	B	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	16		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.87				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D3-20210426 — Lab Sample ID: 400-202647-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0010	J	0.0013	0.00039	mg/L	5		6020	Total Recoverable
Barium	0.061		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.19		0.050	0.018	mg/L	5		6020	Total Recoverable
Calcium	93	B ^5-	1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	360		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Chloride	3.9		2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19	B	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	28		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.02				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-D1-20210426 — Lab Sample ID: 400-202647-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.017		0.0025	0.00070	mg/L	5		6020	Total Recoverable
Boron	0.17		0.050	0.018	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Client Sample ID: MW-D1-20210426 (Continued) — Lab Sample ID: 400-202647-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6	J	2.0	1.4	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.090	J B	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	26		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-U1-20210426 — Lab Sample ID: 400-202647-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0021	J	0.0025	0.00070	mg/L	5		6020	Total Recoverable
Calcium	33		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0011	J	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
Fluoride	0.10	B	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.91				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

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 TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-202647-1	DUP-16-20210426	Water	04/26/21 08:00	04/28/21 09:39	
400-202647-2	MW-D2-20210426	Water	04/26/21 10:45	04/28/21 09:39	
400-202647-3	MW-D3-20210426	Water	04/26/21 12:10	04/28/21 09:39	
400-202647-4	MW-D1-20210426	Water	04/26/21 13:45	04/28/21 09:39	
400-202647-5	MW-U1-20210426	Water	04/26/21 16:00	04/28/21 09:39	

Client Sample ID: DUP-16-20210426

Date Collected: 04/26/21 08:00
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	U	0.0025	0.0015	mg/L		04/28/21 14:05	04/29/21 22:05	5
Arsenic	**0.00080**	**J**	0.0013	0.00039	mg/L		04/28/21 14:05	04/29/21 22:05	5
Barium	**0.065**		0.0025	0.00070	mg/L		04/28/21 14:05	04/29/21 22:05	5
Beryllium	0.00017	U	0.0020	0.00017	mg/L		04/28/21 14:05	04/29/21 22:05	5
Boron	**0.19**		0.050	0.018	mg/L		04/28/21 14:05	04/30/21 15:54	5
Cadmium	0.00028	U	0.0010	0.00028	mg/L		04/28/21 14:05	04/29/21 22:05	5
Calcium	**100**		1.3	0.63	mg/L		04/28/21 14:05	04/30/21 18:57	25
Chromium	0.0010	U	0.0025	0.0010	mg/L		04/28/21 14:05	04/29/21 22:05	5
Cobalt	0.00056	U	0.0025	0.00056	mg/L		04/28/21 14:05	04/29/21 22:05	5
Lead	0.00029	U	0.0013	0.00029	mg/L		04/28/21 14:05	04/29/21 22:05	5
Lithium	0.0019	U	0.0025	0.0019	mg/L		04/28/21 14:05	04/29/21 22:05	5
Molybdenum	0.0045	U	0.010	0.0045	mg/L		04/28/21 14:05	04/29/21 22:05	5
Selenium	0.00082	U	0.0013	0.00082	mg/L		04/28/21 14:05	04/29/21 22:05	5
Thallium	0.00012	U	0.00050	0.00012	mg/L		04/28/21 14:05	04/29/21 22:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/21 11:00	04/29/21 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**350**		5.0	5.0	mg/L			04/29/21 12:51	1
Chloride	**3.9**		2.0	1.4	mg/L			05/08/21 02:48	1
Fluoride	**0.22**	**B**	0.10	0.032	mg/L			05/10/21 16:20	1
Sulfate	**29**		5.0	1.4	mg/L			05/09/21 15:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.03**				SU			04/26/21 07:00	1

Client Sample ID: MW-D2-20210426

Date Collected: 04/26/21 10:45
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	U	0.0025	0.0015	mg/L		04/28/21 14:05	04/29/21 22:09	5
Arsenic	0.00039	U	0.0013	0.00039	mg/L		04/28/21 14:05	04/29/21 22:09	5
Barium	**0.14**		0.0025	0.00070	mg/L		04/28/21 14:05	04/29/21 22:09	5
Beryllium	0.00017	U	0.0020	0.00017	mg/L		04/28/21 14:05	04/29/21 22:09	5
Boron	**0.12**		0.050	0.018	mg/L		04/28/21 14:05	04/30/21 15:58	5
Cadmium	0.00028	U	0.0010	0.00028	mg/L		04/28/21 14:05	04/29/21 22:09	5
Calcium	**120**		1.3	0.63	mg/L		04/28/21 14:05	04/30/21 19:01	25
Chromium	0.0010	U	0.0025	0.0010	mg/L		04/28/21 14:05	04/29/21 22:09	5
Cobalt	0.00056	U	0.0025	0.00056	mg/L		04/28/21 14:05	04/29/21 22:09	5
Lead	0.00029	U	0.0013	0.00029	mg/L		04/28/21 14:05	04/29/21 22:09	5
Lithium	0.0019	U	0.0025	0.0019	mg/L		04/28/21 14:05	04/29/21 22:09	5
Molybdenum	0.0045	U	0.010	0.0045	mg/L		04/28/21 14:05	04/29/21 22:09	5
Selenium	0.00082	U	0.0013	0.00082	mg/L		04/28/21 14:05	04/29/21 22:09	5
Thallium	0.00012	U	0.00050	0.00012	mg/L		04/28/21 14:05	04/29/21 22:09	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/21 11:00	04/29/21 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**370**		5.0	5.0	mg/L			04/29/21 12:51	1
Chloride	**5.0**		2.0	1.4	mg/L			05/08/21 02:48	1
Fluoride	**0.12**	**B**	0.10	0.032	mg/L			05/10/21 16:27	1
Sulfate	**16**		5.0	1.4	mg/L			05/09/21 15:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.87**				SU			04/26/21 09:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Client Sample ID: MW-D3-20210426

Date Collected: 04/26/21 12:10
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	U	0.0025	0.0015	mg/L		04/29/21 10:32	04/29/21 22:20	5
Arsenic	**0.0010**	**J**	0.0013	0.00039	mg/L		04/29/21 10:32	04/29/21 22:20	5
Barium	**0.061**		0.0025	0.00070	mg/L		04/29/21 10:32	04/29/21 22:20	5
Beryllium	0.00017	U	0.0020	0.00017	mg/L		04/29/21 10:32	04/29/21 22:20	5
Boron	**0.19**		0.050	0.018	mg/L		04/29/21 10:32	05/10/21 12:45	5
Cadmium	0.00028	U	0.0010	0.00028	mg/L		04/29/21 10:32	04/29/21 22:20	5
Calcium	**93**	**B ^5-**	1.3	0.63	mg/L		04/29/21 10:32	05/10/21 12:48	25
Chromium	0.0010	U	0.0025	0.0010	mg/L		04/29/21 10:32	04/29/21 22:20	5
Cobalt	0.00056	U	0.0025	0.00056	mg/L		04/29/21 10:32	04/29/21 22:20	5
Lead	0.00029	U	0.0013	0.00029	mg/L		04/29/21 10:32	04/29/21 22:20	5
Lithium	0.0019	U	0.0025	0.0019	mg/L		04/29/21 10:32	04/29/21 22:20	5
Molybdenum	0.0045	U	0.010	0.0045	mg/L		04/29/21 10:32	04/29/21 22:20	5
Selenium	0.00082	U	0.0013	0.00082	mg/L		04/29/21 10:32	04/29/21 22:20	5
Thallium	0.00012	U	0.00050	0.00012	mg/L		04/29/21 10:32	04/29/21 22:20	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/21 11:00	04/29/21 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**360**		5.0	5.0	mg/L			04/29/21 12:51	1
Chloride	**3.9**		2.0	1.4	mg/L			05/08/21 02:48	1
Fluoride	**0.19**	**B**	0.10	0.032	mg/L			05/10/21 16:30	1
Sulfate	**28**		5.0	1.4	mg/L			05/09/21 15:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.02**				SU			04/26/21 11:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Client Sample ID: MW-D1-20210426

Lab Sample ID: 400-202647-4

Date Collected: 04/26/21 13:45

Matrix: Water

Date Received: 04/28/21 09:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	U	0.0025	0.0015	mg/L		04/28/21 14:05	04/29/21 22:13	5
Arsenic	0.00039	U	0.0013	0.00039	mg/L		04/28/21 14:05	04/29/21 22:13	5
Barium	**0.017**		0.0025	0.00070	mg/L		04/28/21 14:05	04/29/21 22:13	5
Beryllium	0.00017	U	0.0020	0.00017	mg/L		04/28/21 14:05	04/29/21 22:13	5
Boron	**0.17**		0.050	0.018	mg/L		04/28/21 14:05	04/30/21 16:02	5
Cadmium	0.00028	U	0.0010	0.00028	mg/L		04/28/21 14:05	04/29/21 22:13	5
Calcium	**29**		0.25	0.13	mg/L		04/28/21 14:05	04/30/21 16:02	5
Chromium	0.0010	U	0.0025	0.0010	mg/L		04/28/21 14:05	04/29/21 22:13	5
Cobalt	0.00056	U	0.0025	0.00056	mg/L		04/28/21 14:05	04/29/21 22:13	5
Lead	0.00029	U	0.0013	0.00029	mg/L		04/28/21 14:05	04/29/21 22:13	5
Lithium	0.0019	U	0.0025	0.0019	mg/L		04/28/21 14:05	04/29/21 22:13	5
Molybdenum	0.0045	U	0.010	0.0045	mg/L		04/28/21 14:05	04/29/21 22:13	5
Selenium	0.00082	U	0.0013	0.00082	mg/L		04/28/21 14:05	04/29/21 22:13	5
Thallium	0.00012	U	0.00050	0.00012	mg/L		04/28/21 14:05	04/29/21 22:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/21 11:00	04/29/21 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**110**		5.0	5.0	mg/L			04/29/21 12:51	1
Chloride	**1.6**	**J**	2.0	1.4	mg/L			05/08/21 02:48	1
Fluoride	**0.090**	**J B**	0.10	0.032	mg/L			05/10/21 16:34	1
Sulfate	**26**		5.0	1.4	mg/L			05/09/21 15:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.82**				SU			04/26/21 12:45	1

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Client Sample ID: MW-U1-20210426

Date Collected: 04/26/21 16:00
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	U	0.0025	0.0015	mg/L		04/28/21 14:05	04/29/21 22:17	5
Arsenic	0.00039	U	0.0013	0.00039	mg/L		04/28/21 14:05	04/29/21 22:17	5
Barium	**0.0021**	**J**	0.0025	0.00070	mg/L		04/28/21 14:05	04/29/21 22:17	5
Beryllium	0.00017	U	0.0020	0.00017	mg/L		04/28/21 14:05	04/29/21 22:17	5
Boron	0.018	U ^3+	0.050	0.018	mg/L		04/28/21 14:05	04/29/21 22:17	5
Cadmium	0.00028	U	0.0010	0.00028	mg/L		04/28/21 14:05	04/29/21 22:17	5
Calcium	**33**		0.25	0.13	mg/L		04/28/21 14:05	04/30/21 16:13	5
Chromium	**0.0011**	**J**	0.0025	0.0010	mg/L		04/28/21 14:05	04/29/21 22:17	5
Cobalt	0.00056	U	0.0025	0.00056	mg/L		04/28/21 14:05	04/29/21 22:17	5
Lead	0.00029	U	0.0013	0.00029	mg/L		04/28/21 14:05	04/29/21 22:17	5
Lithium	0.0019	U	0.0025	0.0019	mg/L		04/28/21 14:05	04/29/21 22:17	5
Molybdenum	0.0045	U	0.010	0.0045	mg/L		04/28/21 14:05	04/29/21 22:17	5
Selenium	0.00082	U	0.0013	0.00082	mg/L		04/28/21 14:05	04/29/21 22:17	5
Thallium	0.00012	U	0.00050	0.00012	mg/L		04/28/21 14:05	04/29/21 22:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/21 11:00	04/29/21 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**98**		5.0	5.0	mg/L			04/29/21 12:51	1
Chloride	1.4	U F1	2.0	1.4	mg/L			05/08/21 02:54	1
Fluoride	**0.10**	**B**	0.10	0.032	mg/L			05/10/21 16:37	1
Sulfate	**1.8**	**J**	5.0	1.4	mg/L			05/09/21 15:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.91**				SU			04/26/21 15:00	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Qualifiers

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Job ID: 400-202647-1
SDG: Crisp Co. Power

Client Sample ID: DUP-16-20210426

Lab Sample ID: 400-202647-1

Date Collected: 04/26/21 08:00

Matrix: Water

Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	529803	04/29/21 22:05	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	530035	04/30/21 15:54	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		25	530035	04/30/21 18:57	AS	TAL PEN
Total/NA	Prep	7470A			529577	04/29/21 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	529808	04/29/21 17:12	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	529669	04/29/21 12:51	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	531000	05/08/21 02:48	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	531172	05/10/21 16:20	KAK	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	531034	05/09/21 15:15	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	525973	04/26/21 07:00	EHS	TAL PEN

Client Sample ID: MW-D2-20210426

Lab Sample ID: 400-202647-2

Date Collected: 04/26/21 10:45

Matrix: Water

Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	529803	04/29/21 22:09	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	530035	04/30/21 15:58	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		25	530035	04/30/21 19:01	AS	TAL PEN
Total/NA	Prep	7470A			529577	04/29/21 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	529808	04/29/21 17:14	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	529669	04/29/21 12:51	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	531000	05/08/21 02:48	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	531172	05/10/21 16:27	KAK	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	531034	05/09/21 15:15	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	525973	04/26/21 09:45	EHS	TAL PEN

Client Sample ID: MW-D3-20210426

Lab Sample ID: 400-202647-3

Date Collected: 04/26/21 12:10

Matrix: Water

Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			529524	04/29/21 10:32	KW	TAL PEN
Total Recoverable	Analysis	6020		5	529803	04/29/21 22:20	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/29/21 10:32	KW	TAL PEN
Total Recoverable	Analysis	6020		5	531201	05/10/21 12:45	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/29/21 10:32	KW	TAL PEN
Total Recoverable	Analysis	6020		25	531201	05/10/21 12:48	AS	TAL PEN

Client Sample ID: MW-D3-20210426

Lab Sample ID: 400-202647-3

Date Collected: 04/26/21 12:10
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			529577	04/29/21 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	529808	04/29/21 17:16	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	529669	04/29/21 12:51	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	531000	05/08/21 02:48	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	531172	05/10/21 16:30	KAK	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	531034	05/09/21 15:15	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	525973	04/26/21 11:10	EHS	TAL PEN

Client Sample ID: MW-D1-20210426

Lab Sample ID: 400-202647-4

Date Collected: 04/26/21 13:45
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	529803	04/29/21 22:13	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	530035	04/30/21 16:02	AS	TAL PEN
Total/NA	Prep	7470A			529577	04/29/21 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	529808	04/29/21 17:18	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	529669	04/29/21 12:51	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	531000	05/08/21 02:48	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	531172	05/10/21 16:34	KAK	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	531034	05/09/21 15:15	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	525973	04/26/21 12:45	EHS	TAL PEN

Client Sample ID: MW-U1-20210426

Lab Sample ID: 400-202647-5

Date Collected: 04/26/21 16:00
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	529803	04/29/21 22:17	AS	TAL PEN
Total Recoverable	Prep	3005A			529524	04/28/21 14:05	KW	TAL PEN
Total Recoverable	Analysis	6020		5	530035	04/30/21 16:13	AS	TAL PEN
Total/NA	Prep	7470A			529577	04/29/21 11:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	529808	04/29/21 17:20	NET	TAL PEN
Total/NA	Analysis	SM 2540C		1	529669	04/29/21 12:51	VB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	531000	05/08/21 02:54	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	531172	05/10/21 16:37	KAK	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	531034	05/09/21 15:15	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	525973	04/26/21 15:00	EHS	TAL PEN

Laboratory References:

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

Metals

Prep Batch: 529524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total Recoverable	Water	3005A	
400-202647-2	MW-D2-20210426	Total Recoverable	Water	3005A	
400-202647-3	MW-D3-20210426	Total Recoverable	Water	3005A	
400-202647-4	MW-D1-20210426	Total Recoverable	Water	3005A	
400-202647-5	MW-U1-20210426	Total Recoverable	Water	3005A	
MB 400-529524/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-529524/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-202201-E-39-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-202201-E-39-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 529577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	7470A	
400-202647-2	MW-D2-20210426	Total/NA	Water	7470A	
400-202647-3	MW-D3-20210426	Total/NA	Water	7470A	
400-202647-4	MW-D1-20210426	Total/NA	Water	7470A	
400-202647-5	MW-U1-20210426	Total/NA	Water	7470A	
MB 400-529577/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-529577/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-202594-Q-2-B MS	Matrix Spike	Total/NA	Water	7470A	
400-202594-Q-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 529803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total Recoverable	Water	6020	529524
400-202647-2	MW-D2-20210426	Total Recoverable	Water	6020	529524
400-202647-3	MW-D3-20210426	Total Recoverable	Water	6020	529524
400-202647-4	MW-D1-20210426	Total Recoverable	Water	6020	529524
400-202647-5	MW-U1-20210426	Total Recoverable	Water	6020	529524
MB 400-529524/1-A ^5	Method Blank	Total Recoverable	Water	6020	529524
LCS 400-529524/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	529524
400-202201-E-39-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	529524
400-202201-E-39-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	529524

Analysis Batch: 529808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	7470A	529577
400-202647-2	MW-D2-20210426	Total/NA	Water	7470A	529577
400-202647-3	MW-D3-20210426	Total/NA	Water	7470A	529577
400-202647-4	MW-D1-20210426	Total/NA	Water	7470A	529577
400-202647-5	MW-U1-20210426	Total/NA	Water	7470A	529577
MB 400-529577/14-A	Method Blank	Total/NA	Water	7470A	529577
LCS 400-529577/15-A	Lab Control Sample	Total/NA	Water	7470A	529577
400-202594-Q-2-B MS	Matrix Spike	Total/NA	Water	7470A	529577
400-202594-Q-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	529577

Analysis Batch: 530035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total Recoverable	Water	6020	529524
400-202647-1	DUP-16-20210426	Total Recoverable	Water	6020	529524
400-202647-2	MW-D2-20210426	Total Recoverable	Water	6020	529524

Metals (Continued)

Analysis Batch: 530035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-2	MW-D2-20210426	Total Recoverable	Water	6020	529524
400-202647-4	MW-D1-20210426	Total Recoverable	Water	6020	529524
400-202647-5	MW-U1-20210426	Total Recoverable	Water	6020	529524
MB 400-529524/1-A ^5	Method Blank	Total Recoverable	Water	6020	529524
LCS 400-529524/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	529524

Analysis Batch: 531201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-3	MW-D3-20210426	Total Recoverable	Water	6020	529524
400-202647-3	MW-D3-20210426	Total Recoverable	Water	6020	529524

General Chemistry

Analysis Batch: 529669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	SM 2540C	
400-202647-2	MW-D2-20210426	Total/NA	Water	SM 2540C	
400-202647-3	MW-D3-20210426	Total/NA	Water	SM 2540C	
400-202647-4	MW-D1-20210426	Total/NA	Water	SM 2540C	
400-202647-5	MW-U1-20210426	Total/NA	Water	SM 2540C	
MB 400-529669/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-529669/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-202594-E-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 531000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	SM 4500 Cl- E	
400-202647-2	MW-D2-20210426	Total/NA	Water	SM 4500 Cl- E	
400-202647-3	MW-D3-20210426	Total/NA	Water	SM 4500 Cl- E	
400-202647-4	MW-D1-20210426	Total/NA	Water	SM 4500 Cl- E	
400-202647-5	MW-U1-20210426	Total/NA	Water	SM 4500 Cl- E	
MB 400-531000/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-531000/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-531000/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-202647-5 MS	MW-U1-20210426	Total/NA	Water	SM 4500 Cl- E	
400-202647-5 MSD	MW-U1-20210426	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 531034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	SM 4500 SO4 E	
400-202647-2	MW-D2-20210426	Total/NA	Water	SM 4500 SO4 E	
400-202647-3	MW-D3-20210426	Total/NA	Water	SM 4500 SO4 E	
400-202647-4	MW-D1-20210426	Total/NA	Water	SM 4500 SO4 E	
400-202647-5	MW-U1-20210426	Total/NA	Water	SM 4500 SO4 E	
MB 400-531034/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-531034/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-531034/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-202647-5 MS	MW-U1-20210426	Total/NA	Water	SM 4500 SO4 E	
400-202647-5 MSD	MW-U1-20210426	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

General Chemistry

Analysis Batch: 531172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	SM 4500 F C	
400-202647-2	MW-D2-20210426	Total/NA	Water	SM 4500 F C	
400-202647-3	MW-D3-20210426	Total/NA	Water	SM 4500 F C	
400-202647-4	MW-D1-20210426	Total/NA	Water	SM 4500 F C	
400-202647-5	MW-U1-20210426	Total/NA	Water	SM 4500 F C	
MB 400-531172/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-531172/6	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-202647-1 MS	DUP-16-20210426	Total/NA	Water	SM 4500 F C	
400-202647-1 MSD	DUP-16-20210426	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 525973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	Field Sampling	
400-202647-2	MW-D2-20210426	Total/NA	Water	Field Sampling	
400-202647-3	MW-D3-20210426	Total/NA	Water	Field Sampling	
400-202647-4	MW-D1-20210426	Total/NA	Water	Field Sampling	
400-202647-5	MW-U1-20210426	Total/NA	Water	Field Sampling	

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-529524/1-A ^5
Matrix: Water
Analysis Batch: 529803

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 529524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	U	0.0025	0.0015	mg/L		04/28/21 14:05	04/29/21 20:49	5
Arsenic	0.00039	U	0.0013	0.00039	mg/L		04/28/21 14:05	04/29/21 20:49	5
Barium	0.00070	U	0.0025	0.00070	mg/L		04/28/21 14:05	04/29/21 20:49	5
Beryllium	0.00017	U	0.0020	0.00017	mg/L		04/28/21 14:05	04/29/21 20:49	5
Cadmium	0.00028	U	0.0010	0.00028	mg/L		04/28/21 14:05	04/29/21 20:49	5
Chromium	0.0010	U	0.0025	0.0010	mg/L		04/28/21 14:05	04/29/21 20:49	5
Cobalt	0.00056	U	0.0025	0.00056	mg/L		04/28/21 14:05	04/29/21 20:49	5
Lead	0.00029	U	0.0013	0.00029	mg/L		04/28/21 14:05	04/29/21 20:49	5
Lithium	0.00200	J	0.0025	0.0019	mg/L		04/28/21 14:05	04/29/21 20:49	5
Molybdenum	0.0045	U	0.010	0.0045	mg/L		04/28/21 14:05	04/29/21 20:49	5
Selenium	0.00082	U	0.0013	0.00082	mg/L		04/28/21 14:05	04/29/21 20:49	5
Thallium	0.00012	U	0.00050	0.00012	mg/L		04/28/21 14:05	04/29/21 20:49	5

Lab Sample ID: MB 400-529524/1-A ^5
Matrix: Water
Analysis Batch: 530035

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 529524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.13	U	0.25	0.13	mg/L		04/28/21 14:05	04/30/21 15:47	5

Lab Sample ID: LCS 400-529524/2-A ^5
Matrix: Water
Analysis Batch: 529803

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 529524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0462		mg/L		92	80 - 120
Arsenic	0.0500	0.0427		mg/L		85	80 - 120
Barium	0.0500	0.0424		mg/L		85	80 - 120
Beryllium	0.0500	0.0459		mg/L		92	80 - 120
Cadmium	0.0500	0.0474		mg/L		95	80 - 120
Chromium	0.0500	0.0472		mg/L		94	80 - 120
Cobalt	0.0500	0.0462		mg/L		92	80 - 120
Lead	0.0500	0.0460		mg/L		92	80 - 120
Lithium	0.0500	0.0443		mg/L		89	80 - 120
Molybdenum	0.0500	0.0453		mg/L		91	80 - 120
Selenium	0.0500	0.0477		mg/L		95	80 - 120
Thallium	0.0100	0.00876		mg/L		88	80 - 120

Lab Sample ID: LCS 400-529524/2-A ^5
Matrix: Water
Analysis Batch: 530035

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 529524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5.00	4.77		mg/L		95	80 - 120

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

Lab Sample ID: 400-202201-E-39-B MS ^5
Matrix: Water
Analysis Batch: 529803

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 529524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0015	U	0.0500	0.0483		mg/L		97	75 - 125
Arsenic	0.00039	U	0.0500	0.0481		mg/L		96	75 - 125
Barium	0.084		0.0500	0.126		mg/L		85	75 - 125
Beryllium	0.00017	U	0.0500	0.0494		mg/L		99	75 - 125
Cadmium	0.00028	U	0.0500	0.0490		mg/L		98	75 - 125
Chromium	0.0022	J	0.0500	0.0508		mg/L		97	75 - 125
Cobalt	0.00097	J	0.0500	0.0489		mg/L		96	75 - 125
Lead	0.00029	U	0.0500	0.0477		mg/L		95	75 - 125
Lithium	0.0019	U	0.0500	0.0466		mg/L		93	75 - 125
Molybdenum	0.0045	U	0.0500	0.0476		mg/L		95	75 - 125
Selenium	0.0015		0.0500	0.0515		mg/L		100	75 - 125
Thallium	0.00012	U	0.0100	0.00908		mg/L		91	75 - 125

Lab Sample ID: 400-202201-E-39-C MSD ^5
Matrix: Water
Analysis Batch: 529803

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 529524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.0015	U	0.0500	0.0479		mg/L		96	75 - 125	1	20
Arsenic	0.00039	U	0.0500	0.0486		mg/L		97	75 - 125	1	20
Barium	0.084		0.0500	0.126		mg/L		85	75 - 125	0	20
Beryllium	0.00017	U	0.0500	0.0474		mg/L		95	75 - 125	4	20
Cadmium	0.00028	U	0.0500	0.0481		mg/L		96	75 - 125	2	20
Chromium	0.0022	J	0.0500	0.0505		mg/L		97	75 - 125	1	20
Cobalt	0.00097	J	0.0500	0.0475		mg/L		93	75 - 125	3	20
Lead	0.00029	U	0.0500	0.0471		mg/L		94	75 - 125	1	20
Lithium	0.0019	U	0.0500	0.0454		mg/L		91	75 - 125	3	20
Molybdenum	0.0045	U	0.0500	0.0473		mg/L		95	75 - 125	1	20
Selenium	0.0015		0.0500	0.0517		mg/L		100	75 - 125	0	20
Thallium	0.00012	U	0.0100	0.00911		mg/L		91	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-529577/14-A
Matrix: Water
Analysis Batch: 529808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 529577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/21 11:00	04/29/21 16:44	1

Lab Sample ID: LCS 400-529577/15-A
Matrix: Water
Analysis Batch: 529808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 529577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000938		mg/L		93	80 - 120

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

Lab Sample ID: 400-202594-Q-2-B MS
Matrix: Water
Analysis Batch: 529808

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 529577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.000070	U	0.00201	0.00168		mg/L		83	80 - 120

Lab Sample ID: 400-202594-Q-2-C MSD
Matrix: Water
Analysis Batch: 529808

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 529577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000070	U	0.00201	0.00167		mg/L		83	80 - 120	0	20

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

Lab Sample ID: MB 400-529669/1
Matrix: Water
Analysis Batch: 529669

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	5.0	U	5.0	5.0	mg/L			04/29/21 12:51	1

Lab Sample ID: LCS 400-529669/2
Matrix: Water
Analysis Batch: 529669

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	302		mg/L		103	78 - 122

Lab Sample ID: 400-202594-E-3 DU
Matrix: Water
Analysis Batch: 529669

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	250	U	400		mg/L		NC	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-531000/16
Matrix: Water
Analysis Batch: 531000

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4	U	2.0	1.4	mg/L			05/08/21 02:45	1

Lab Sample ID: LCS 400-531000/17
Matrix: Water
Analysis Batch: 531000

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	27.5		mg/L		92	90 - 110

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

Lab Sample ID: MRL 400-531000/13
Matrix: Water
Analysis Batch: 531000

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			2.00	2.00		mg/L		100	50 - 150		

Lab Sample ID: 400-202647-5 MS
Matrix: Water
Analysis Batch: 531000

Client Sample ID: MW-U1-20210426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1.4	U F1	10.0	13.7	F1	mg/L		137	73 - 120		

Lab Sample ID: 400-202647-5 MSD
Matrix: Water
Analysis Batch: 531000

Client Sample ID: MW-U1-20210426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.4	U F1	10.0	13.8	F1	mg/L		138	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-531172/3
Matrix: Water
Analysis Batch: 531172

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.0600	J	0.10	0.032	mg/L			05/10/21 16:11	1

Lab Sample ID: LCS 400-531172/6
Matrix: Water
Analysis Batch: 531172

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			5.00	4.72		mg/L		94	90 - 110		

Lab Sample ID: 400-202647-1 MS
Matrix: Water
Analysis Batch: 531172

Client Sample ID: DUP-16-20210426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	0.22	B	1.00	1.29		mg/L		107	75 - 125		

Lab Sample ID: 400-202647-1 MSD
Matrix: Water
Analysis Batch: 531172

Client Sample ID: DUP-16-20210426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.22	B	1.00	1.29		mg/L					

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-531034/6
Matrix: Water
Analysis Batch: 531034

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			05/09/21 15:04	1

Lab Sample ID: LCS 400-531034/7
Matrix: Water
Analysis Batch: 531034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	16.0		mg/L		106	90 - 110

Lab Sample ID: MRL 400-531034/3
Matrix: Water
Analysis Batch: 531034

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	4.98	J	mg/L		100	50 - 150

Lab Sample ID: 400-202647-5 MS
Matrix: Water
Analysis Batch: 531034

Client Sample ID: MW-U1-20210426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.8	J	10.0	12.4		mg/L		105	77 - 128

Lab Sample ID: 400-202647-5 MSD
Matrix: Water
Analysis Batch: 531034

Client Sample ID: MW-U1-20210426
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.8	J	10.0	12.4		mg/L		106	77 - 128	0	5

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

681-Atlanta

Chain of Custody Record

eurofins Environment Testing TestAmerica

L

Client Information
Client Contact: Dawit Yifru
Company: Geosyntec Consultants, Inc.
Address: 1255 Roberts Blvd, NW Suite 200
City: Kennesaw
State, Zip: GA, 30144
Phone: 678-202-9500
Email: dyifru@geosyntec.com
Project Name: CCR App.III/IV GW Monitoring
Site: CRISP Co. POWER

Sampler: STEPHEN W. RANDALL
Phone: 478-328-6181
Lab PM: Whitmire, Cheyenne R
E-Mail: cheyenne.whitmire@testamericainc.com
Carrier Tracking No(s): 1482-3808-3860
COC No: 400-93295-29334.1
Page: Page 1 of 1
Job #:

Due Date Requested:
TAT Requested (days): STANDARD
PO #: Purchase Order not required
WO #:
Project #: 40007960
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, 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	Field Sampling - Field pH	Total Number of containers	Special Instructions/Note:
DUP-16-20210426	4/26/21	0800	G	Water	N	N	Ø	1	1	1	1	1	1			PH - 7.03
MW-D2-20210426	4/26/21	1045	G	Water	N	N	Ø	1	1	1	1	1	1			PH - 6.87
MW-D3-20210426	4/26/21	1210	G	Water	N	N	Ø	1	1	1	1	1	1			PH - 7.02
MW-D1-20210426	4/26/21	1345	G	Water	N	N	Ø	1	1	1	1	1	1			PH - 6.82
MW-U1-20210426	4/26/21	1600	G	Water	N	N	Ø	1	1	1	1	1	1			PH - 7.91
				Water												

LAST ITEM

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time:

Relinquished by: Stephen W. Randall — Date/Time: 4/27/21 1600 — Company: GEOSYNTEC
Relinquished by: — Date/Time: — Company:
Relinquished by: Bridgette Walker — Date/Time: 4/28/21 939 — Company:

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

Cooler Temperature(s) °C and Other Remarks:

Ref: S400-102430
Dep:
Date: 20Apr21
Wgt: 10.00 LBS
DV:
Svcs: PRIORITY OVERNIGHT Master 1482 3808 3860
TRCK: 1482 3808 3860

SHIPPING:	0.00
SPECIAL:	0.00
HANDLING:	0.00
0.00 TOTAL:	0.00

2226 0.2°C IR9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-202647-1
SDG Number: Crisp Co. Power

Login Number: 202647
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, 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	0.2, 22.6°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-1
SDG: Crisp Co. Power

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
New Jersey	NELAP	FL006	06-30-21
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-21
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-21-00056	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-21

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-202647-2
Laboratory Sample Delivery Group: Crisp Co. Power
Client Project/Site: CCR App.III/IV GW Monitoring

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

Attn: Dawit Yifru

Cheyenne R Whitmire

Authorized for release by:
6/4/2021 9:42:50 AM

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

Table of Contents

Job ID: 400-202647-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-202647-2

RAD

Method 9315: Radium-226 Batch 160-509356. 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-16-20210426 (400-202647-1), MW-D2-20210426 (400-202647-2), MW-D3-20210426 (400-202647-3), MW-D1-20210426 (400-202647-4), MW-U1-20210426 (400-202647-5), (LCS 160-509356/1-A), (MB 160-509356/24-A), (280-147998-A-2-E) and (280-147998-M-2-B DU)

Method 9320: Radium-228 Batch 160-509365. 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-16-20210426 (400-202647-1), MW-D2-20210426 (400-202647-2), MW-D3-20210426 (400-202647-3), MW-D1-20210426 (400-202647-4), MW-U1-20210426 (400-202647-5), (LCS 160-509365/1-A), (MB 160-509365/24-A), (280-147998-A-2-F) and (280-147998-M-2-C DU)

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

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 TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-202647-1	DUP-16-20210426	Water	04/26/21 08:00	04/28/21 09:39	
400-202647-2	MW-D2-20210426	Water	04/26/21 10:45	04/28/21 09:39	
400-202647-3	MW-D3-20210426	Water	04/26/21 12:10	04/28/21 09:39	
400-202647-4	MW-D1-20210426	Water	04/26/21 13:45	04/28/21 09:39	
400-202647-5	MW-U1-20210426	Water	04/26/21 16:00	04/28/21 09:39	

Client Sample ID: DUP-16-20210426

Date Collected: 04/26/21 08:00
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-1

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	0.303		0.194	0.196	1.00	0.263	pCi/L	05/12/21 13:58	06/03/21 07:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.2*		*40 - 110*	*05/12/21 13:58*	*06/03/21 07:37*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0919	U	0.344	0.344	1.00	0.597	pCi/L	05/12/21 14:38	06/01/21 12:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.2*		*40 - 110*	*05/12/21 14:38*	*06/01/21 12:59*	*1*
Y Carrier	*87.5*		*40 - 110*	*05/12/21 14:38*	*06/01/21 12:59*	*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	0.395	U	0.395	0.396	5.00	0.597	pCi/L		06/03/21 21:24	1

Client Sample ID: MW-D2-20210426

Date Collected: 04/26/21 10:45
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-2

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	0.255		0.162	0.163	1.00	0.207	pCi/L	05/12/21 13:58	06/03/21 07:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.8*		*40 - 110*	*05/12/21 13:58*	*06/03/21 07:37*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.518		0.295	0.299	1.00	0.440	pCi/L	05/12/21 14:38	06/01/21 12:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.8*		*40 - 110*	*05/12/21 14:38*	*06/01/21 12:59*	*1*
Y Carrier	*89.7*		*40 - 110*	*05/12/21 14:38*	*06/01/21 12:59*	*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	0.773		0.337	0.341	5.00	0.440	pCi/L		06/03/21 21:24	1

Client Sample ID: MW-D3-20210426

Date Collected: 04/26/21 12:10
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-3

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	0.0920	U	0.122	0.122	1.00	0.203	pCi/L	05/12/21 13:58	06/03/21 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.3*		*40 - 110*	*05/12/21 13:58*	*06/03/21 07:38*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.291	0.292	1.00	0.478	pCi/L	05/12/21 14:38	06/01/21 13:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.3*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:00*	*1*
Y Carrier	*93.1*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:00*	*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	0.352	U	0.316	0.316	5.00	0.478	pCi/L		06/03/21 21:24	1

Client Sample ID: MW-D1-20210426

Date Collected: 04/26/21 13:45
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-4

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	-0.00177	U	0.112	0.112	1.00	0.238	pCi/L	05/12/21 13:58	06/03/21 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.7*		*40 - 110*	*05/12/21 13:58*	*06/03/21 07:38*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0312	U	0.286	0.286	1.00	0.524	pCi/L	05/12/21 14:38	06/01/21 13:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.7*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:00*	*1*
Y Carrier	*89.3*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:00*	*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	-0.0330	U	0.307	0.307	5.00	0.524	pCi/L		06/03/21 21:24	1

Client Sample ID: MW-U1-20210426

Date Collected: 04/26/21 16:00
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-5

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	0.172	U	0.145	0.146	1.00	0.218	pCi/L	05/12/21 13:58	06/03/21 07:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.6*		*40 - 110*	*05/12/21 13:58*	*06/03/21 07:40*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.437	U	0.293	0.295	1.00	0.451	pCi/L	05/12/21 14:38	06/01/21 13:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.6*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:01*	*1*
Y Carrier	*85.6*		*40 - 110*	*05/12/21 14:38*	*06/01/21 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	**0.609**		0.327	0.329	5.00	0.451	pCi/L		06/03/21 21:24	1

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

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 App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

Client Sample ID: DUP-16-20210426
Lab Sample ID: 400-202647-1
Date Collected: 04/26/21 08:00
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	9315		1	512655	06/03/21 07:37	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	9320		1	512417	06/01/21 12:59	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

Client Sample ID: MW-D2-20210426
Lab Sample ID: 400-202647-2
Date Collected: 04/26/21 10:45
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	9315		1	512655	06/03/21 07:37	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	9320		1	512417	06/01/21 12:59	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

Client Sample ID: MW-D3-20210426
Lab Sample ID: 400-202647-3
Date Collected: 04/26/21 12:10
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	9315		1	512655	06/03/21 07:38	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	9320		1	512417	06/01/21 13:00	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

Client Sample ID: MW-D1-20210426
Lab Sample ID: 400-202647-4
Date Collected: 04/26/21 13:45
Matrix: Water
Date Received: 04/28/21 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	9315		1	512655	06/03/21 07:38	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	9320		1	512417	06/01/21 13:00	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

Client Sample ID: MW-U1-20210426
Date Collected: 04/26/21 16:00
Date Received: 04/28/21 09:39

Lab Sample ID: 400-202647-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	9315		1	512600	06/03/21 07:40	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	9320		1	512417	06/01/21 13:01	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

Laboratory References:

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

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

Rad

Prep Batch: 509356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	PrecSep-21	
400-202647-2	MW-D2-20210426	Total/NA	Water	PrecSep-21	
400-202647-3	MW-D3-20210426	Total/NA	Water	PrecSep-21	
400-202647-4	MW-D1-20210426	Total/NA	Water	PrecSep-21	
400-202647-5	MW-U1-20210426	Total/NA	Water	PrecSep-21	
MB 160-509356/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-509356/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
280-147998-M-2-B DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 509365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202647-1	DUP-16-20210426	Total/NA	Water	PrecSep_0	
400-202647-2	MW-D2-20210426	Total/NA	Water	PrecSep_0	
400-202647-3	MW-D3-20210426	Total/NA	Water	PrecSep_0	
400-202647-4	MW-D1-20210426	Total/NA	Water	PrecSep_0	
400-202647-5	MW-U1-20210426	Total/NA	Water	PrecSep_0	
MB 160-509365/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-509365/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
280-147998-M-2-C DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-509356/24-A
Matrix: Water
Analysis Batch: 512601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509356

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09182	U	0.126	0.126	1.00	0.213	pCi/L	05/12/21 13:58	06/03/21 07:43	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*40 - 110*	*05/12/21 13:58*	*06/03/21 07:43*	*1*

Lab Sample ID: LCS 160-509356/1-A
Matrix: Water
Analysis Batch: 512655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509356

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	12.11		1.38	1.00	0.215	pCi/L	107	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.5*		*40 - 110*

Lab Sample ID: 280-147998-M-2-B DU
Matrix: Water
Analysis Batch: 512655

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 509356

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.380			0.5260		0.286	1.00	0.364	pCi/L			0.28	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*72.4*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-509365/24-A
Matrix: Water
Analysis Batch: 512418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509365

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1657	U	0.240	0.240	1.00	0.465	pCi/L	05/12/21 14:38	06/01/21 13:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:19*	*1*
Y Carrier	*87.1*		*40 - 110*	*05/12/21 14:38*	*06/01/21 13:19*	*1*

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

Lab Sample ID: LCS 160-509365/1-A
Matrix: Water
Analysis Batch: 512417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509365

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.67	8.961		1.10	1.00	0.434	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.5*		*40 - 110*
Y Carrier	*89.0*		*40 - 110*

Lab Sample ID: 280-147998-M-2-C DU
Matrix: Water
Analysis Batch: 512417

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 509365

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	3.23			3.147		0.655	1.00	0.595	pCi/L			0.06	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*72.4*		*40 - 110*
Y Carrier	*86.4*		*40 - 110*

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

681-Atlanta

Chain of Custody Record

eurofins

L

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Dawit Yifru	STEPHEN W. RANDALL	Whitmire, Cheyenne R	1482-3808-3871	400-93295-29334 1
Company: Geosyntec Consultants, Inc	Phone: 478-328-6181	E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 1
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Job #
City: Kennesaw	TAT Requested (days): STANDARD			
State, Zip: GA, 30144	PO #: Purchase Order not required			
Phone: 478-202-9500	WO #			
Email: dyifru@geosyntec.com	Project #: 40007960			
Project Name: CCR App.III/IV GW Monitoring	SSOW#			
Site: CRISP Co. POWER				

Analysis Requested

400-202647 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 (Water, Solid, Wastewater, 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	Field Sampling - Field pH	Total Number of containers	Special Instructions/Note:
DUP-16-20210426	4/26/21	0800	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			PH - 7.03
MW-D2-20210426	4/26/21	1045	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			PH - 6.87
MW-D3-20210426	4/26/21	1210	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			PH - 7.02
MW-D1-20210426	4/26/21	1345	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			PH - 6.82
MW-U1-20210426	4/26/21	1600	G	Water	N	N	1	Ø	Ø	Ø	Ø	Ø	Ø			PH - 7.91
				Water												

LAST ITEM

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Stephen W. Randall	4/27/21 1600	GEOSYNTEC			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Brandon White	4/28/21 939				

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

Ref: S400-102430 Dep:
Date: 20Apr21
Wgt: 10.00 LBS
DV: 0.00
Svcs: PRIORITY OVERNIGHT Master 1482 3808 3860 TRCK: 1482 3808 3871

SHIPPING:	0.00
SPECIAL:	0.00
HANDLING:	0.00
TOTAL:	0.00

Ver 01/16/2019

0.4 22.6°C IR9

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-202647-2
SDG Number: Crisp Co. Power

Login Number: 202647
List Number: 1
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, 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	0.2, 22.6°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-202647-2
SDG Number: Crisp Co. Power

Login Number: 202647
List Number: 2
Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/29/21 04:52 PM

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

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: CCR App.III/IV GW Monitoring

Job ID: 400-202647-2
SDG: Crisp Co. Power

Laboratory: Eurofins TestAmerica, 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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21 *
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

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

APPENDIX C

Statistical Calculations and Time-series Graphs

Summary Report

Constituent: Antimony Analysis Run 6/22/2021 11:33 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 48
ND/Trace = 48
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0025
Mean Value = 0.002333
Median Value = 0.0025
Standard Deviation = 0.0005586
Coefficient of Variation = 0.2394
Skewness = -3.015

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	12	12	0.0005	0.0025	0.002333	0.0025	0.0005774	0.2474	-3.015
MW-D2	12	12	0.0005	0.0025	0.002333	0.0025	0.0005774	0.2474	-3.015
MW-D3	12	12	0.0005	0.0025	0.002333	0.0025	0.0005774	0.2474	-3.015
MW-U1 (bg)	12	12	0.0005	0.0025	0.002333	0.0025	0.0005774	0.2474	-3.015

Summary Report

Constituent: Antimony (mg/L) Analysis Run 6/22/2021 11:33 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Arsenic Analysis Run 6/22/2021 11:33 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 64
ND/Trace = 44
Wells = 4
Minimum Value = 0.00015
Maximum Value = 0.0016
Mean Value = 0.00112
Median Value = 0.0013
Standard Deviation = 0.0003364
Coefficient of Variation = 0.3003
Skewness = -1.436

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	16	0.00025	0.0013	0.001234	0.0013	0.0002625	0.2127	-3.615
MW-D2	16	12	0.00027	0.0013	0.001133	0.0013	0.0003298	0.291	-1.728
MW-D3	16	2	0.00048	0.0016	0.0009369	0.000945	0.0003545	0.3784	0.3735
MW-U1 (bg)	16	14	0.00015	0.0013	0.001176	0.0013	0.0003445	0.2931	-2.388

Summary Report

Constituent: Arsenic (mg/L) Analysis Run 6/22/2021 11:33 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Barium Analysis Run 6/22/2021 11:33 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 64
ND/Trace = 0
Wells = 4
Minimum Value = 0.0018
Maximum Value = 0.23
Mean Value = 0.07871
Median Value = 0.044
Standard Deviation = 0.07704
Coefficient of Variation = 0.9788
Skewness = 0.3965

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	0	0.0095	0.027	0.01402	0.0125	0.005012	0.3576	1.553
MW-D2	16	0	0.087	0.19	0.1392	0.14	0.02422	0.174	-0.2202
MW-D3	16	0	0.061	0.23	0.1591	0.17	0.05343	0.3358	-0.4172
MW-U1 (bg)	16	0	0.0018	0.0062	0.0025	0.0022	0.001058	0.4231	2.919

Summary Report

Constituent: Barium (mg/L) Analysis Run 6/22/2021 11:33 AM View: Sampling Events 1 through 16

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)

Summary Report

Constituent: Beryllium Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 48
ND/Trace = 48
Wells = 4
Minimum Value = 0.0004
Maximum Value = 0.0025
Mean Value = 0.001908
Median Value = 0.002
Standard Deviation = 0.0004802
Coefficient of Variation = 0.2516
Skewness = -2.499

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	12	12	0.0004	0.0025	0.001908	0.002	0.0004963	0.2601	-2.499
MW-D2	12	12	0.0004	0.0025	0.001908	0.002	0.0004963	0.2601	-2.499
MW-D3	12	12	0.0004	0.0025	0.001908	0.002	0.0004963	0.2601	-2.499
MW-U1 (bg)	12	12	0.0004	0.0025	0.001908	0.002	0.0004963	0.2601	-2.499

Summary Report

Constituent: Beryllium (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Cadmium Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 52
ND/Trace = 50
Wells = 4
Minimum Value = 0.000071
Maximum Value = 0.0025
Mean Value = 0.001049
Median Value = 0.001
Standard Deviation = 0.0004825
Coefficient of Variation = 0.46
Skewness = 1.61

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	13	13	0.0002	0.0025	0.001054	0.001	0.0004875	0.4626	1.796
MW-D2	13	12	0.000075	0.0025	0.001044	0.001	0.0005066	0.4852	1.45
MW-D3	13	12	0.000071	0.0025	0.001044	0.001	0.0005073	0.4859	1.439
MW-U1 (bg)	13	13	0.0002	0.0025	0.001054	0.001	0.0004875	0.4626	1.796

Summary Report

Constituent: Cadmium (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Chromium Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 56
ND/Trace = 39
Wells = 4
Minimum Value = 0.0005
Maximum Value = 0.0051
Mean Value = 0.002221
Median Value = 0.0025
Standard Deviation = 0.0007899
Coefficient of Variation = 0.3556
Skewness = 0.2214

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	14	13	0.0005	0.0034	0.002421	0.0025	0.0006028	0.2489	-2.242
MW-D2	14	13	0.0005	0.0038	0.00245	0.0025	0.0006595	0.2692	-1.378
MW-D3	14	13	0.0005	0.0029	0.002386	0.0025	0.0005531	0.2318	-3.091
MW-U1 (bg)	14	0	0.0011	0.0051	0.001629	0.0014	0.001014	0.6227	3.16

Summary Report

Constituent: Chromium (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
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)

Summary Report

Constituent: Cobalt Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 64
ND/Trace = 47
Wells = 4
Minimum Value = 0.00035
Maximum Value = 0.0025
Mean Value = 0.002036
Median Value = 0.0025
Standard Deviation = 0.0007303
Coefficient of Variation = 0.3588
Skewness = -1.112

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	16	0.0005	0.0025	0.002375	0.0025	0.0005	0.2105	-3.615
MW-D2	16	14	0.00047	0.0025	0.002279	0.0025	0.0006106	0.2679	-2.38
MW-D3	16	1	0.00035	0.0025	0.001238	0.00125	0.000487	0.3934	0.6297
MW-U1 (bg)	16	16	0.0005	0.0025	0.00225	0.0025	0.0006831	0.3036	-2.268

Summary Report

Constituent: Cobalt (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 64
ND/Trace = 14
Wells = 4
Minimum Value = 0
Maximum Value = 5
Mean Value = 0.7143
Median Value = 0.4455
Standard Deviation = 1.151
Coefficient of Variation = 1.611
Skewness = 3.261

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	3	0.0994	5	0.6817	0.411	1.176	1.725	3.366
MW-D2	16	4	0.0139	5	0.7796	0.4685	1.163	1.492	3.244
MW-D3	16	4	0.0501	5	1.13	0.5605	1.54	1.362	2.106
MW-U1 (bg)	16	3	0	0.615	0.2657	0.19	0.2195	0.8263	0.5104

Summary Report

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Fluoride Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 64
ND/Trace = 1
Wells = 4
Minimum Value = 0.04
Maximum Value = 0.19
Mean Value = 0.07788
Median Value = 0.07
Standard Deviation = 0.02999
Coefficient of Variation = 0.3852
Skewness = 1.06

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	0	0.04	0.12	0.07406	0.07	0.02275	0.3071	0.3889
MW-D2	16	0	0.04	0.12	0.06131	0.06	0.01746	0.2848	2.431
MW-D3	16	0	0.06	0.19	0.1144	0.11	0.02555	0.2234	1.102
MW-U1 (bg)	16	1	0.04	0.1	0.06175	0.06	0.01723	0.2791	1.177

Summary Report

Constituent: Fluoride (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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)

Summary Report

Constituent: Lead Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 48
ND/Trace = 44
Wells = 4
Minimum Value = 0.00025
Maximum Value = 0.0013
Mean Value = 0.001153
Median Value = 0.0013
Standard Deviation = 0.0003434
Coefficient of Variation = 0.298
Skewness = -1.985

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	12	11	0.00025	0.0013	0.001171	0.0013	0.0003237	0.2764	-2.269
MW-D2	12	10	0.00025	0.0013	0.001068	0.0013	0.0004225	0.3955	-1.209
MW-D3	12	12	0.00025	0.0013	0.001213	0.0013	0.0003031	0.25	-3.015
MW-U1 (bg)	12	11	0.00025	0.0013	0.001158	0.0013	0.0003417	0.295	-2.029

Summary Report

Constituent: Lead (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Lithium Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 56
ND/Trace = 49
Wells = 4
Minimum Value = 0.00034
Maximum Value = 0.005
Mean Value = 0.002411
Median Value = 0.0025
Standard Deviation = 0.0008828
Coefficient of Variation = 0.3661
Skewness = 0.3137

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	14	13	0.0005	0.005	0.002521	0.0025	0.0008894	0.3527	0.7892
MW-D2	14	12	0.0005	0.005	0.002479	0.0025	0.0009831	0.3966	0.4961
MW-D3	14	11	0.00048	0.005	0.002441	0.0025	0.00095	0.3891	0.7186
MW-U1 (bg)	14	13	0.00034	0.0025	0.002203	0.0025	0.000756	0.3432	-2.049

Summary Report

Constituent: Lithium (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Mercury Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 48
ND/Trace = 43
Wells = 4
Minimum Value = 0.000077
Maximum Value = 0.0002
Mean Value = 0.0001912
Median Value = 0.0002
Standard Deviation = 0.0000285
Coefficient of Variation = 0.1491
Skewness = -3.075

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	12	11	0.000077	0.0002	0.0001897	0.0002	0.00003551	0.1871	-3.015
MW-D2	12	10	0.00011	0.0002	0.0001908	0.0002	0.0000261	0.1368	-2.787
MW-D3	12	11	0.00011	0.0002	0.0001925	0.0002	0.00002598	0.135	-3.015
MW-U1 (bg)	12	11	0.000099	0.0002	0.0001916	0.0002	0.00002916	0.1522	-3.015

Summary Report

Constituent: Mercury (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Molybdenum Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 60
ND/Trace = 46
Wells = 4
Minimum Value = 0.0012
Maximum Value = 0.015
Mean Value = 0.007957
Median Value = 0.01
Standard Deviation = 0.003739
Coefficient of Variation = 0.4699
Skewness = -0.7246

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	15	15	0.002	0.015	0.0098	0.01	0.002513	0.2564	-1.556
MW-D2	15	12	0.0012	0.015	0.008153	0.01	0.004158	0.51	-0.6656
MW-D3	15	4	0.0017	0.01	0.004873	0.0027	0.003642	0.7474	0.6422
MW-U1 (bg)	15	15	0.002	0.01	0.009	0.01	0.002646	0.294	-2.18

Summary Report

Constituent: Molybdenum (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Selenium Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 56
ND/Trace = 41
Wells = 4
Minimum Value = 0.00021
Maximum Value = 0.0028
Mean Value = 0.001087
Median Value = 0.0013
Standard Deviation = 0.0004544
Coefficient of Variation = 0.4182
Skewness = 0.1038

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	14	13	0.00025	0.0013	0.001156	0.0013	0.0003671	0.3176	-2.049
MW-D2	14	11	0.00025	0.0013	0.001084	0.0013	0.0003904	0.3603	-1.377
MW-D3	14	10	0.00021	0.0028	0.001166	0.0013	0.0006352	0.5446	0.6934
MW-U1 (bg)	14	7	0.00039	0.0013	0.0009407	0.00103	0.0003845	0.4087	-0.1795

Summary Report

Constituent: Selenium (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Summary Report

Constituent: Thallium Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16
CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10

For observations made between 2/28/2017 and 4/26/2021, a summary of the selected data set:

Observations = 64
ND/Trace = 40
Wells = 4
Minimum Value = 0.000085
Maximum Value = 0.0005
Mean Value = 0.0003452
Median Value = 0.0005
Standard Deviation = 0.0001898
Coefficient of Variation = 0.5496
Skewness = -0.4126

Well	#Obs.	ND/Trace	Min	Max	Mean	Median	Std.Dev.	CV	Skewness
MW-D1	16	16	0.0001	0.0005	0.000475	0.0005	0.0001	0.2105	-3.615
MW-D2	16	6	0.000085	0.0005	0.0002656	0.00013	0.0001914	0.7207	0.4152
MW-D3	16	2	0.000095	0.0005	0.0001653	0.00012	0.0001318	0.7971	2.195
MW-U1 (bg)	16	16	0.0001	0.0005	0.000475	0.0005	0.0001	0.2105	-3.615

Summary Report

Constituent: Thallium (mg/L) Analysis Run 6/22/2021 11:34 AM View: Sampling Events 1 through 16

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

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/22/2021, 11:47 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	**MW-D2**	**Yes**	**0.00027**	**4/27/2020**	**NP (nrm)**	**NaN**	**16**	**0.001133**	**0.0003298**	**unknown**	**ShapiroWilk**
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**16**	**0.0025**	**0.001058**	**ln(x)**	**ShapiroWilk**
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051**	**2/28/2017**	**NP**	**NaN**	**14**	**0.001629**	**0.001014**	**ln(x)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	**MW-D2**	**Yes**	**0.0139**	**6/5/2018**	**NP**	**NaN**	**16**	**0.7796**	**1.163**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	**MW-D2**	**Yes**	**0.12**	**4/26/2021**	**NP (nrm)**	**NaN**	**16**	**0.06131**	**0.01746**	**unknown**	**ShapiroWilk**
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06,0.19**	**7/17/2017...**	**NP**	**NaN**	**16**	**0.1144**	**0.02555**	**x^(1/3)**	**ShapiroWilk**
Lithium (mg/L)	**MW-D3**	**Yes**	**0.005,0.0...**	**3/22/2018...**	**NP (nrm)**	**NaN**	**14**	**0.002441**	**0.00095**	**unknown**	**ShapiroWilk**
Thallium (mg/L)	**MW-D3**	**Yes**	**0.0005,0....**	**11/19/202...**	**NP**	**NaN**	**16**	**0.000...**	**0.0001318**	**ln(x)**	**ShapiroWilk**

Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/22/2021, 11:47 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 (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	16	0.001234	0.0002625	unknown	ShapiroWilk
Arsenic (mg/L)	**MW-D2**	**Yes**	**0.00027**	**4/27/2020**	**NP (nrm)**	**NaN**	**16**	**0.001133**	**0.0003298**	**unknown**	**ShapiroWilk**
Arsenic (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	16	0.000...	0.0003545	x^(1/3)	ShapiroWilk
Arsenic (mg/L)	MW-U1 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001176	0.0003445	unknown	ShapiroWilk
Barium (mg/L)	MW-D1	No	n/a	n/a	NP (nrm)	NaN	16	0.01402	0.005012	unknown	ShapiroWilk
Barium (mg/L)	MW-D2	No	n/a	n/a	NP	NaN	16	0.1392	0.02422	normal	ShapiroWilk
Barium (mg/L)	MW-D3	No	n/a	n/a	NP	NaN	16	0.1591	0.05343	x^2	ShapiroWilk
Barium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0062**	**11/19/2020**	**NP**	**NaN**	**16**	**0.0025**	**0.001058**	**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	14	0.002421	0.0006028	unknown	ShapiroWilk
Chromium (mg/L)	MW-D2	n/a	n/a	n/a	NP (nrm)	NaN	14	0.00245	0.0006595	unknown	ShapiroWilk
Chromium (mg/L)	MW-D3	n/a	n/a	n/a	NP (nrm)	NaN	14	0.002386	0.0005531	unknown	ShapiroWilk
Chromium (mg/L)	**MW-U1 (bg)**	**Yes**	**0.0051**	**2/28/2017**	**NP**	**NaN**	**14**	**0.001629**	**0.001014**	**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	16	0.6817	1.176	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**MW-D2**	**Yes**	**0.0139**	**6/5/2018**	**NP**	**NaN**	**16**	**0.7796**	**1.163**	**ln(x)**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	MW-D3	No	n/a	n/a	NP (nrm)	NaN	16	1.13	1.54	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-U1 (bg)	No	n/a	n/a	NP (nrm)	NaN	16	0.2657	0.2195	unknown	ShapiroWilk
Fluoride (mg/L)	MW-D1	No	n/a	n/a	NP	NaN	16	0.07406	0.02275	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	**MW-D2**	**Yes**	**0.12**	**4/26/2021**	**NP (nrm)**	**NaN**	**16**	**0.06131**	**0.01746**	**unknown**	**ShapiroWilk**
Fluoride (mg/L)	**MW-D3**	**Yes**	**0.06,0.19**	**7/17/2017...**	**NP**	**NaN**	**16**	**0.1144**	**0.02555**	**x^(1/3)**	**ShapiroWilk**
Fluoride (mg/L)	MW-U1 (bg)	No	n/a	n/a	NP	NaN	16	0.06175	0.01723	ln(x)	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

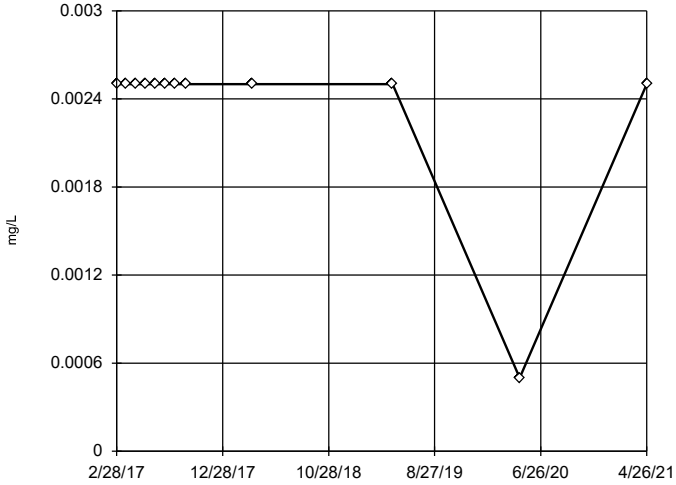
Outlier Analysis

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/22/2021, 11:47 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 (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 = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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: Antimony Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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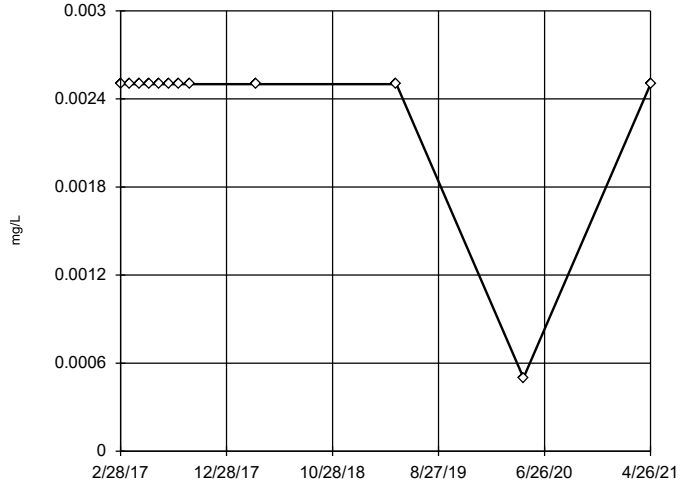
Tukey's Outlier Screening

MW-D2



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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: Antimony Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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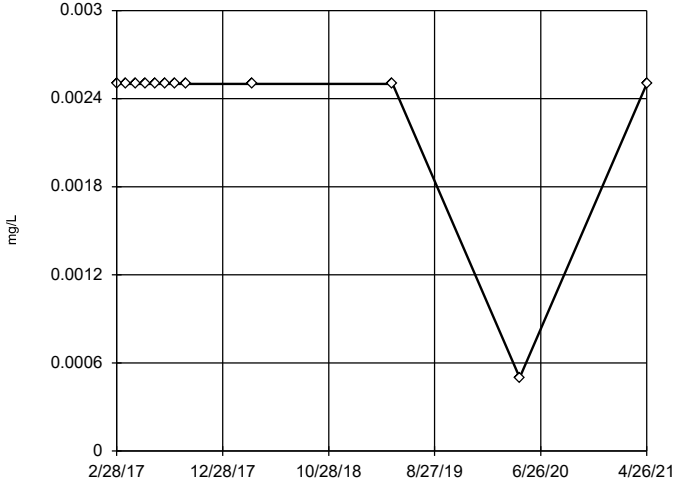
Tukey's Outlier Screening

MW-D3



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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: Antimony Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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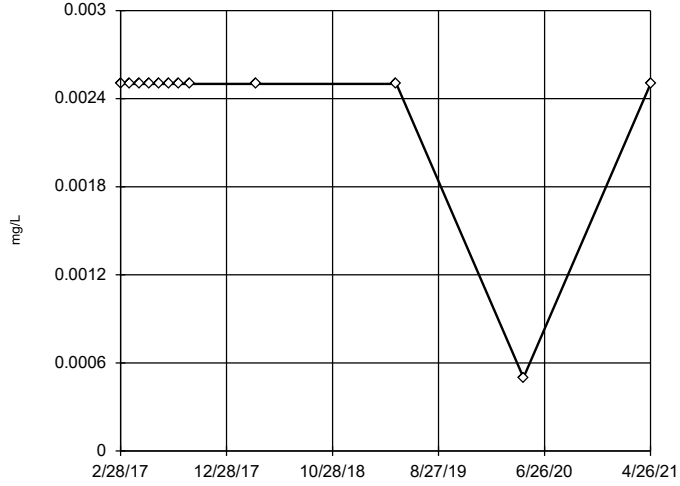
Tukey's Outlier Screening

MW-U1 (bg)



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

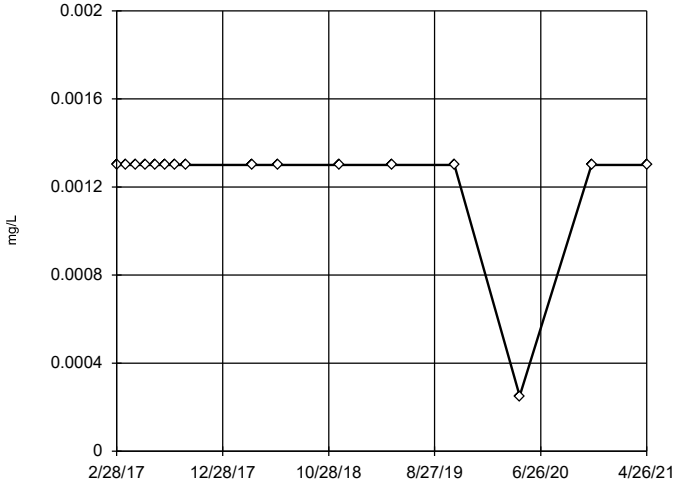
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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: Arsenic Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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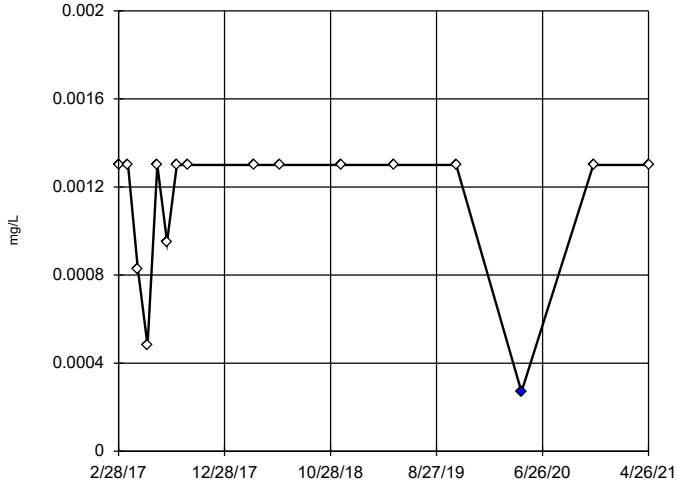
Tukey's Outlier Screening

MW-D2



n = 16

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

Data were square transformed 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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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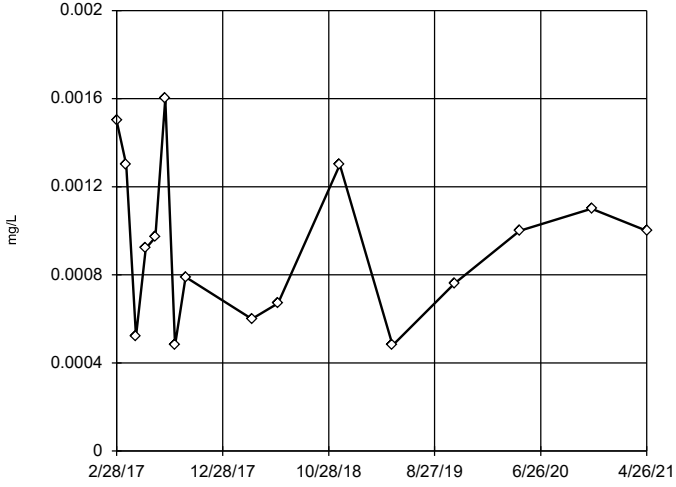
Tukey's Outlier Screening

MW-D3



n = 16

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

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

High cutoff = 0.004655, low cutoff = 0.00001589, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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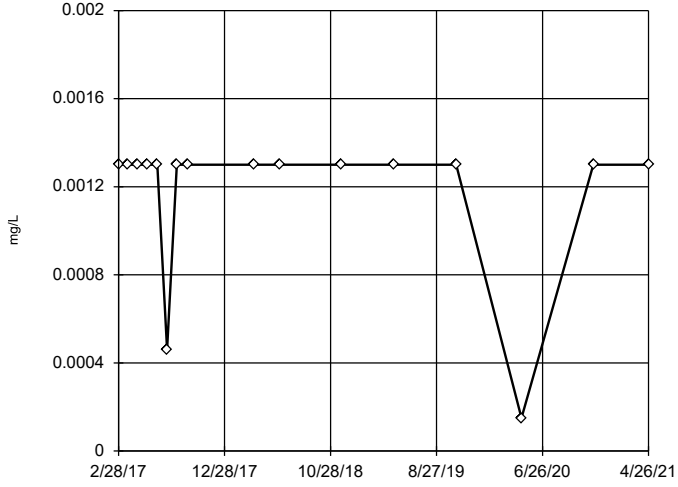
Tukey's Outlier Screening

MW-U1 (bg)



n = 16

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

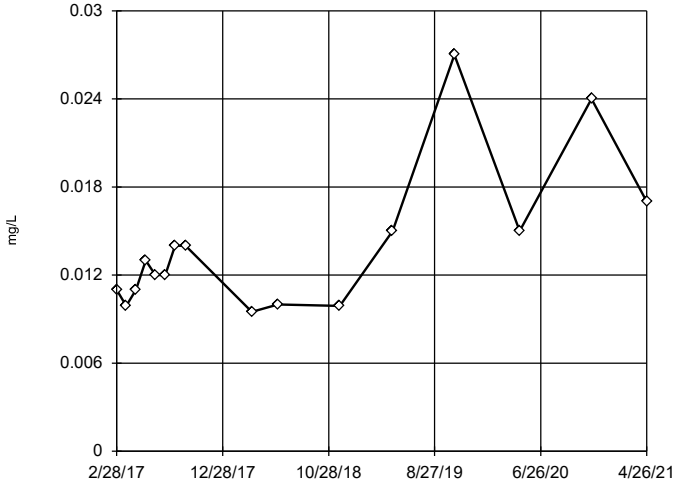
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 0.04388, low cutoff = 0.003585, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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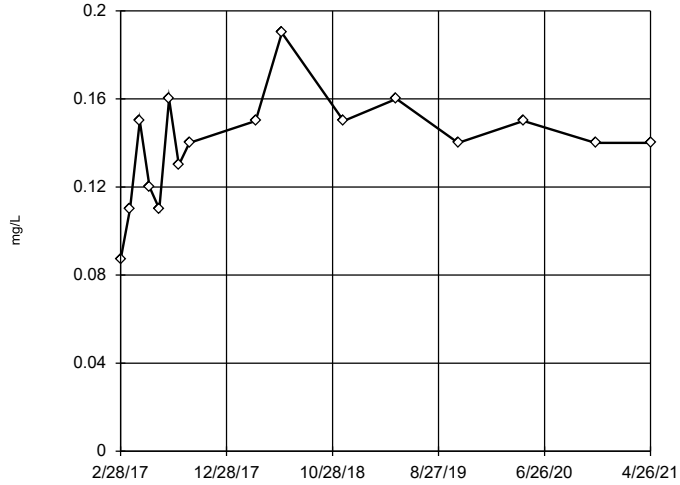
Tukey's Outlier Screening

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.

High cutoff = 0.225, low cutoff = 0.05, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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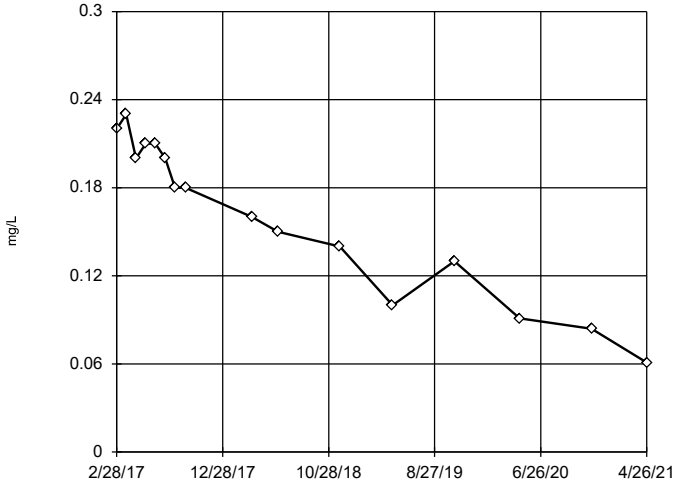
Tukey's Outlier Screening

MW-D3



n = 16

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

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

High cutoff = 0.3576, low cutoff = -0.269, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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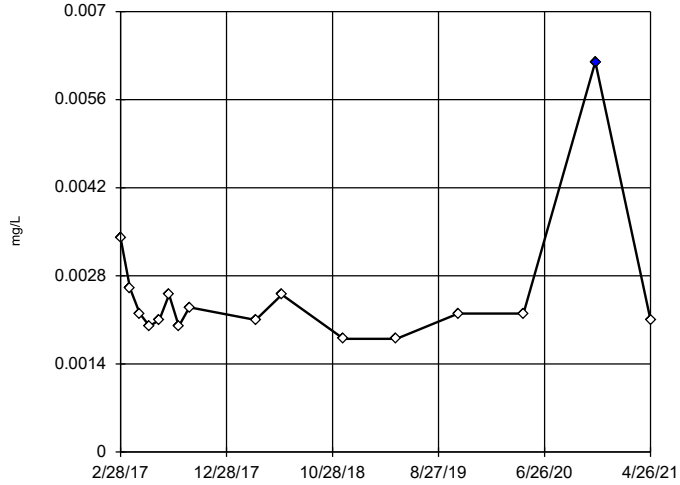
Tukey's Outlier Screening

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).

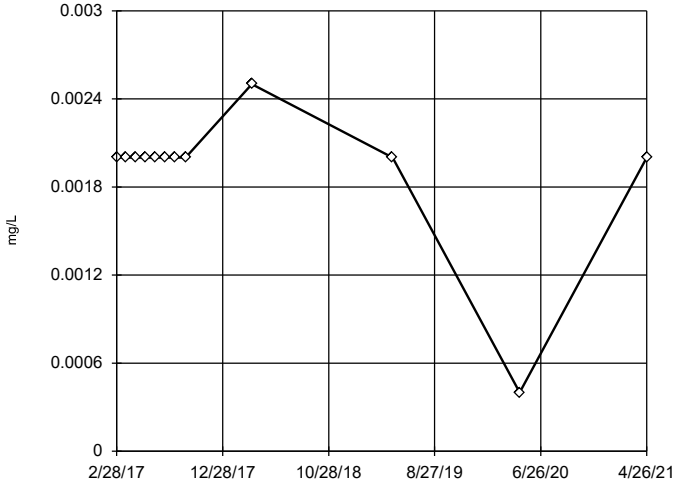
High cutoff = 0.004538, low cutoff = 0.001129, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

Tukey's Outlier Screening

MW-D1



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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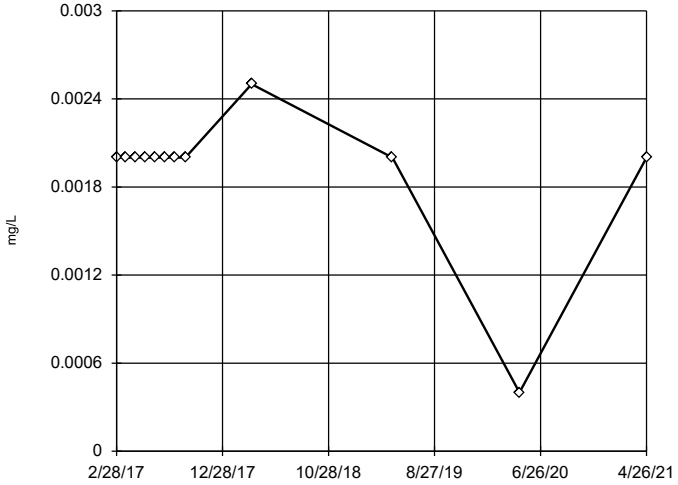
Tukey's Outlier Screening

MW-D2



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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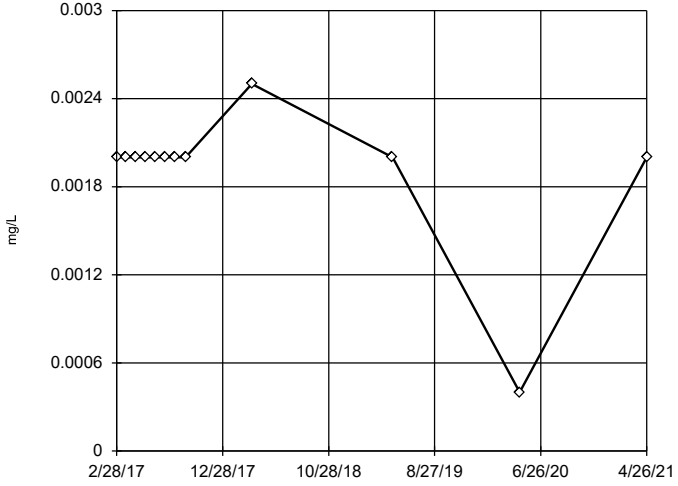
Tukey's Outlier Screening

MW-D3



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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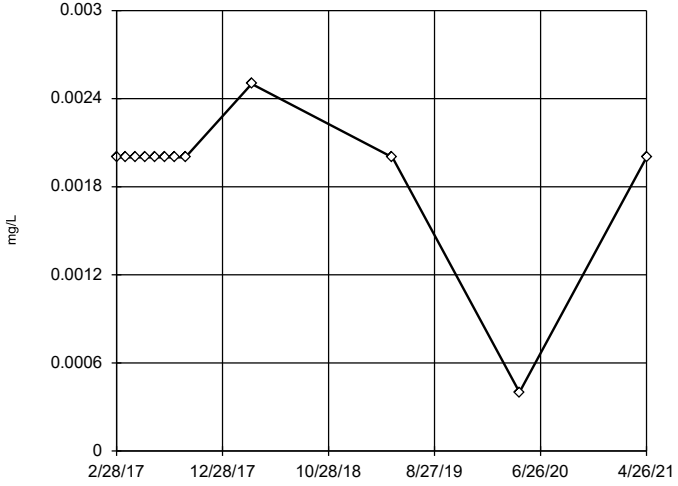
Tukey's Outlier Screening

MW-U1 (bg)



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

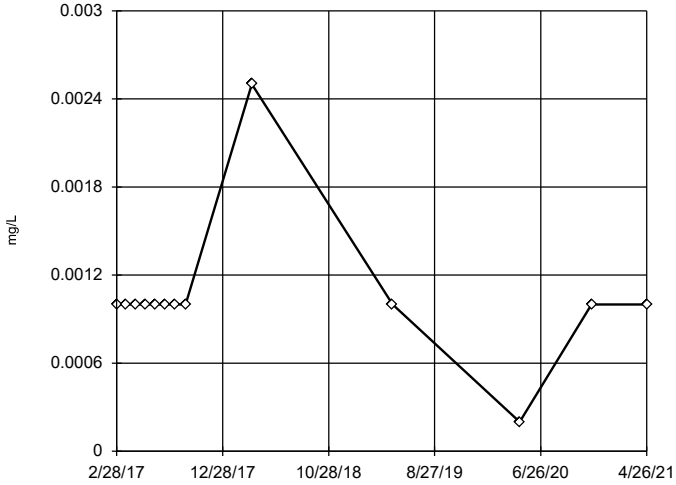
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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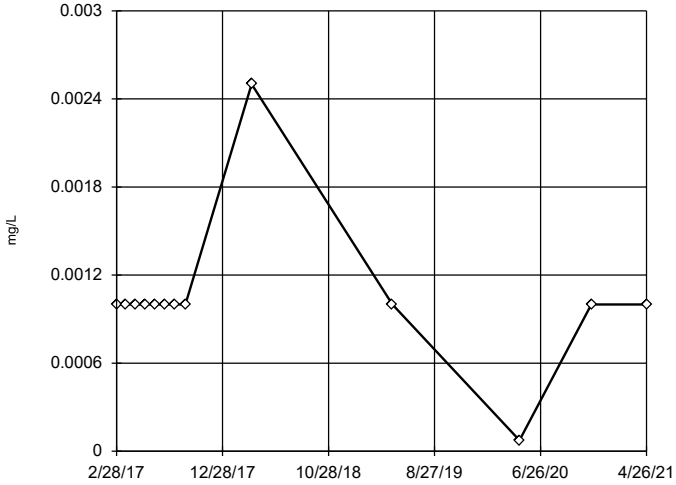
Tukey's Outlier Screening

MW-D2



n = 13

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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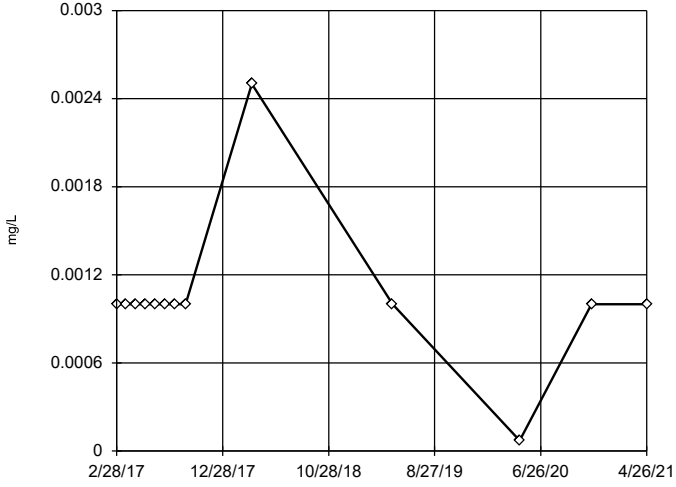
Tukey's Outlier Screening

MW-D3



n = 13

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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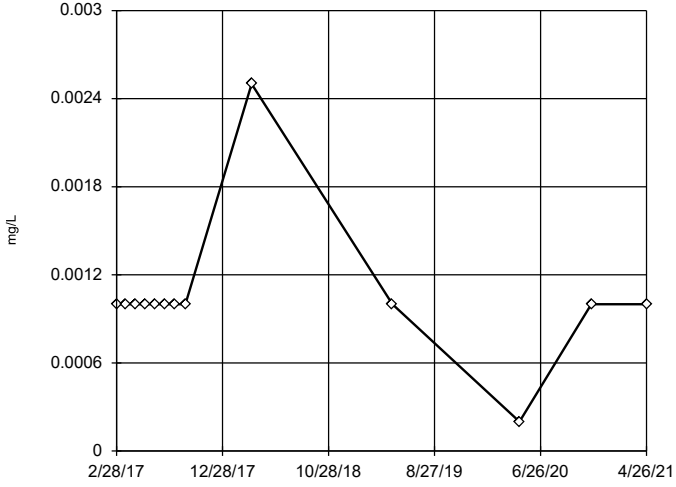
Tukey's Outlier Screening

MW-U1 (bg)



n = 13

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

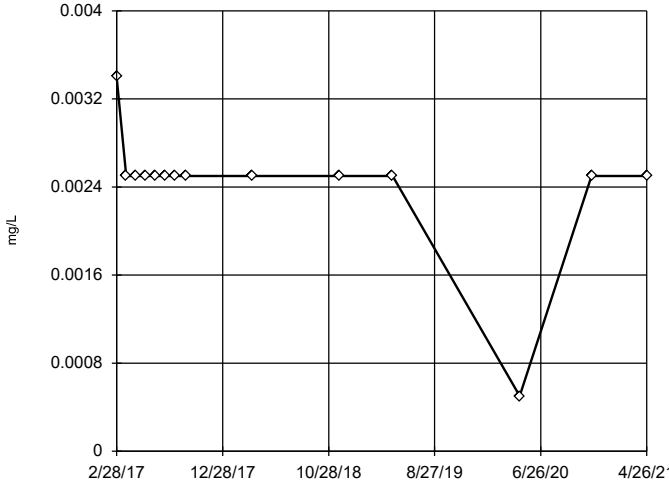
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:43 AM View: Sampling Events 1 through 16

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

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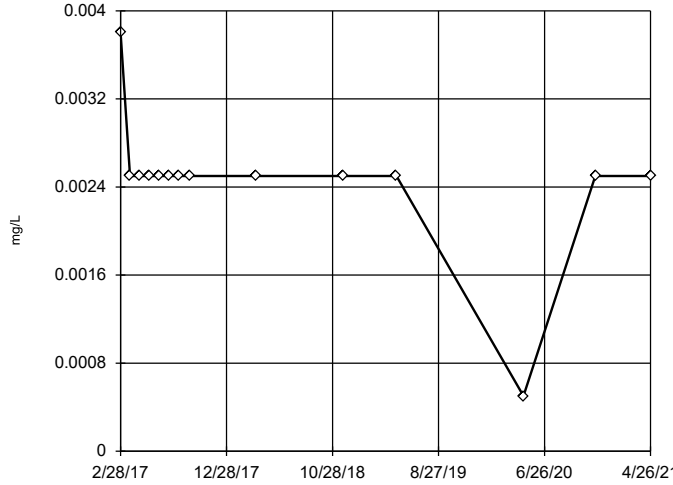
Tukey's Outlier Screening

MW-D2



n = 14

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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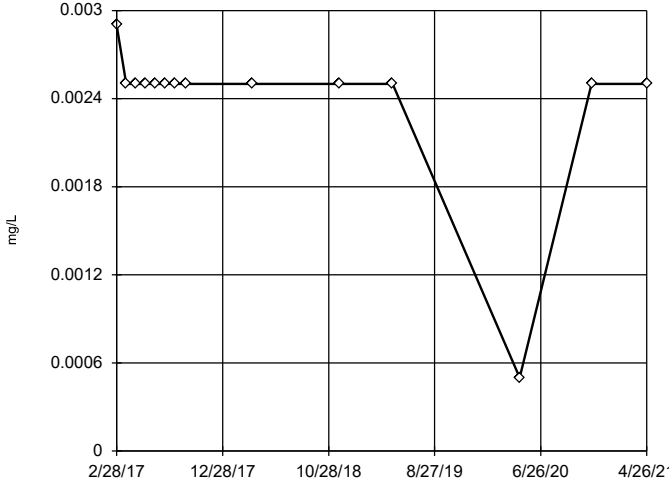
Tukey's Outlier Screening

MW-D3



n = 14

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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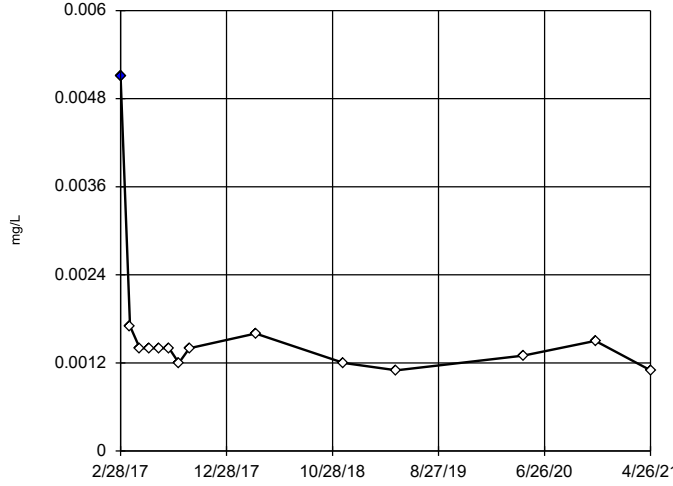
Tukey's Outlier Screening

MW-U1 (bg)



n = 14

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).

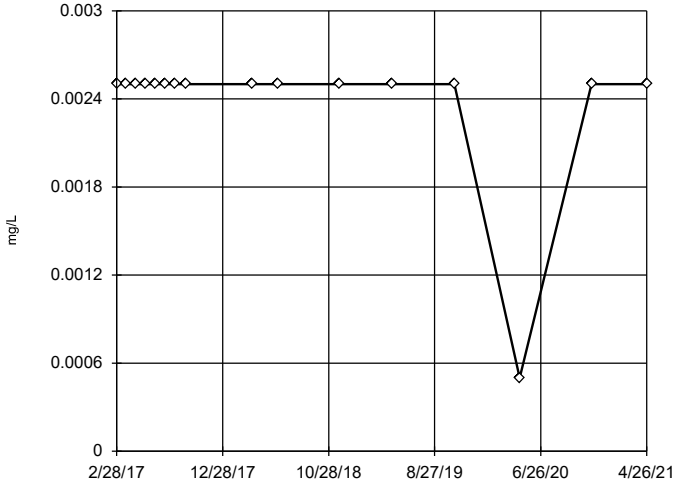
High cutoff = 0.003333, low cutoff = 0.0005577, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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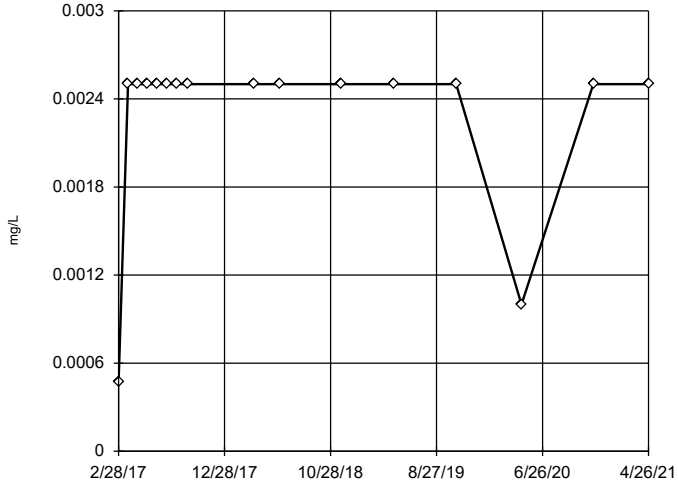
Tukey's Outlier Screening

MW-D2



n = 16

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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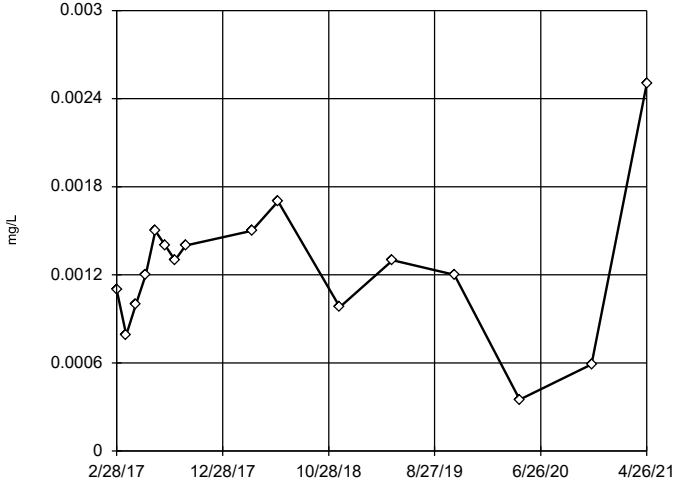
Tukey's Outlier Screening

MW-D3



n = 16

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

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

High cutoff = 0.003353, low cutoff = 0.0001354, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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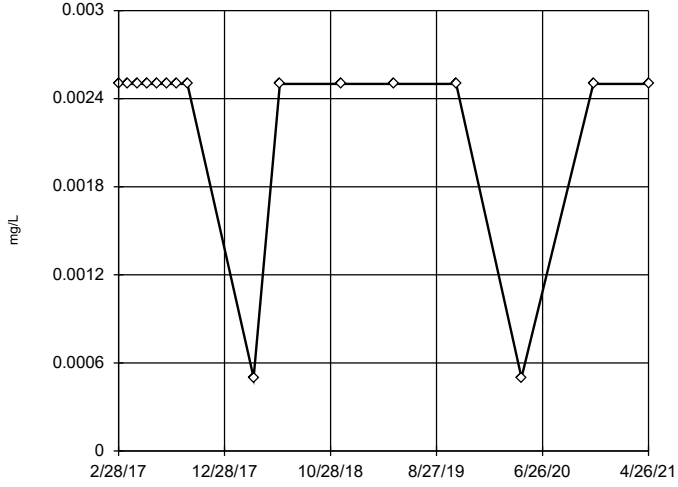
Tukey's Outlier Screening

MW-U1 (bg)



n = 16

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

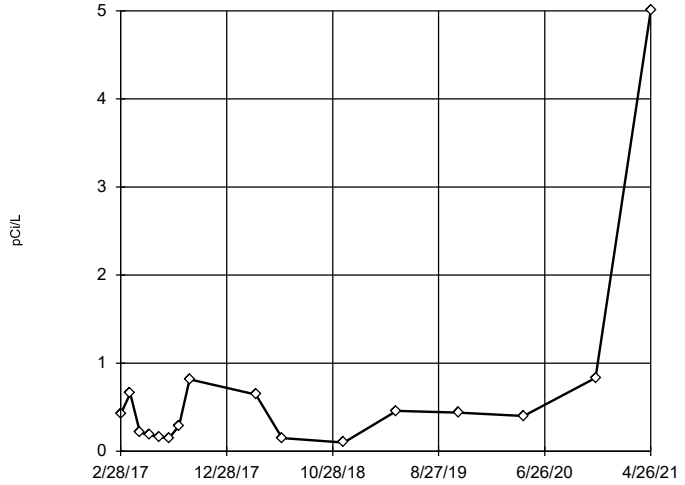
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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 select-ed by user.

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

High cutoff = 35.89, low cutoff = 0.00308, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 thr

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

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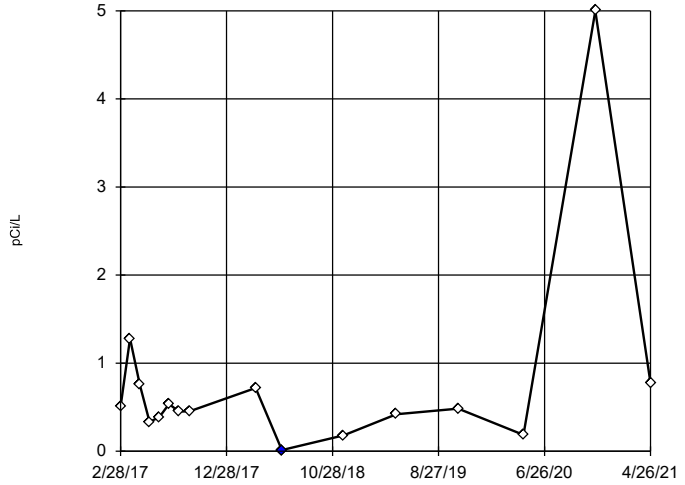
Tukey's Outlier Screening

MW-D2



n = 16

Outlier is drawn as solid. Tukey's method select-ed by user.

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

High cutoff = 6.309, low cutoff = 0.04192, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 thr

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

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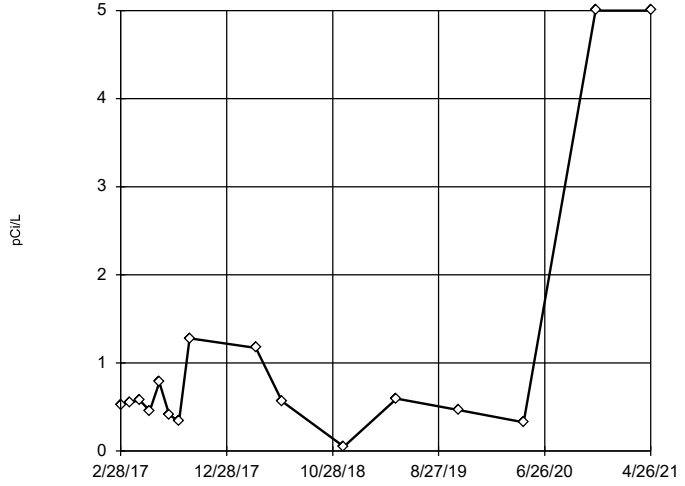
Tukey's Outlier Screening

MW-D3



n = 16

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 10.31, low cutoff = 0.04007, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 thr

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

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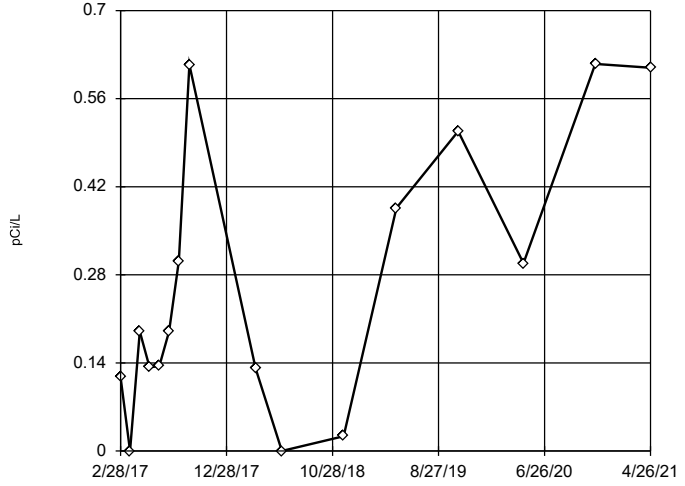
Tukey's Outlier Screening

MW-U1 (bg)



n = 16

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

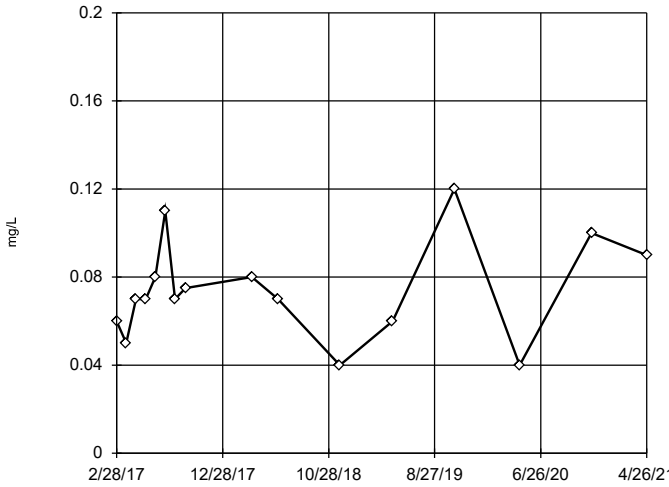
High cutoff = 2.599, low cutoff = -0.3517, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 thr

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

High cutoff = 0.1856,
low cutoff = 0.01114,
based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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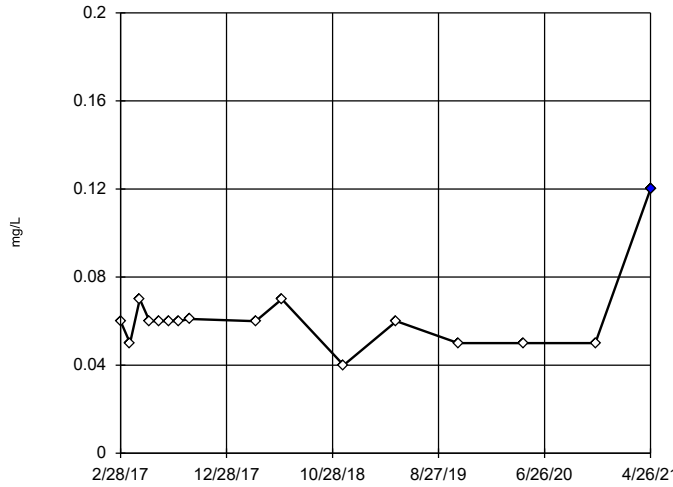
Tukey's Outlier Screening

MW-D2



n = 16

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 0.1072,
low cutoff = 0.02823,
based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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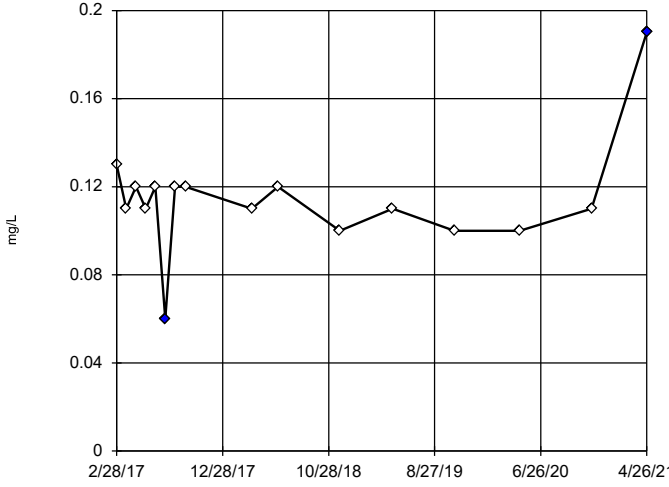
Tukey's Outlier Screening

MW-D3



n = 16

Outliers are 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 = 0.1738,
low cutoff = 0.06736,
based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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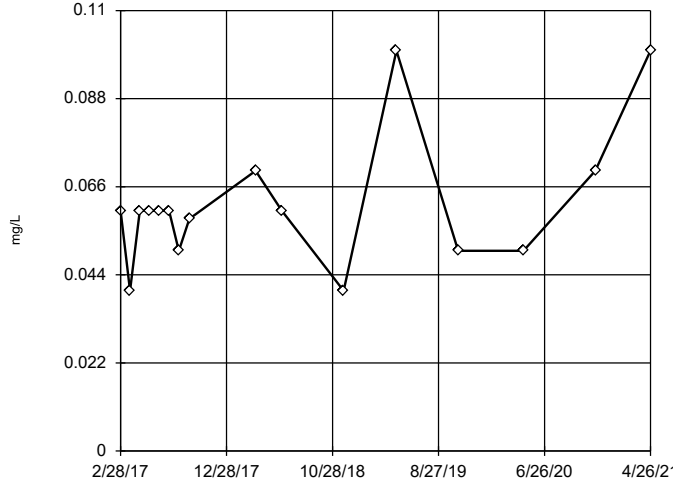
Tukey's Outlier Screening

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).

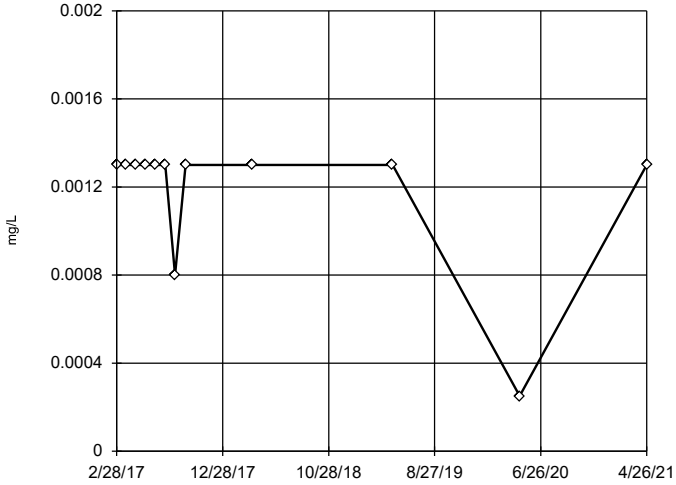
High cutoff = 0.1411,
low cutoff = 0.02296,
based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

Tukey's Outlier Screening

MW-D1



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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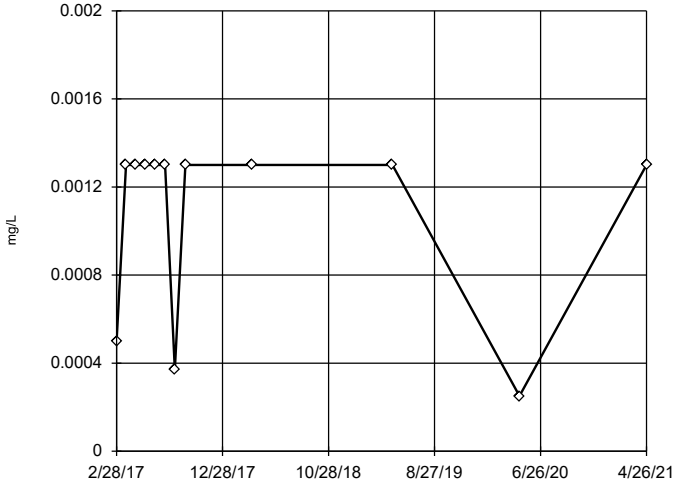
Tukey's Outlier Screening

MW-D2



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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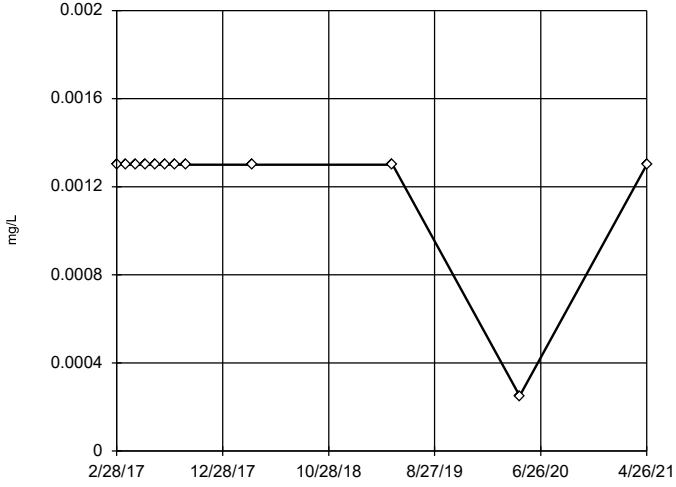
Tukey's Outlier Screening

MW-D3



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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: Lead Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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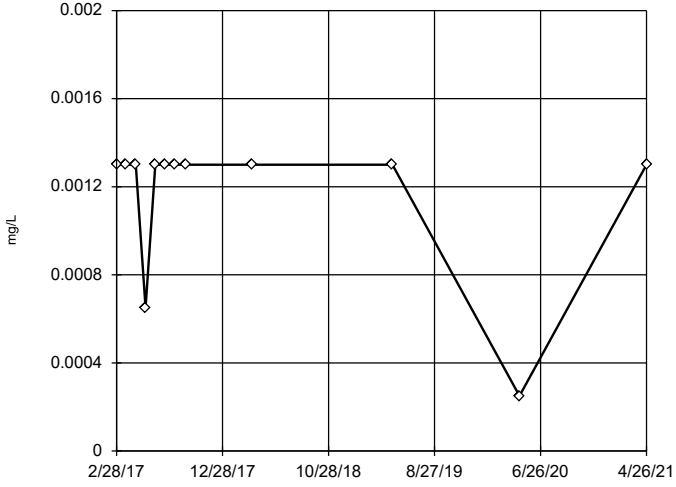
Tukey's Outlier Screening

MW-U1 (bg)



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

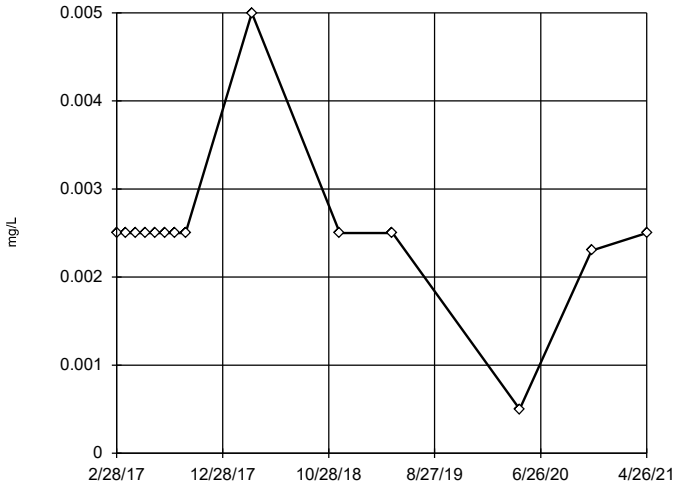
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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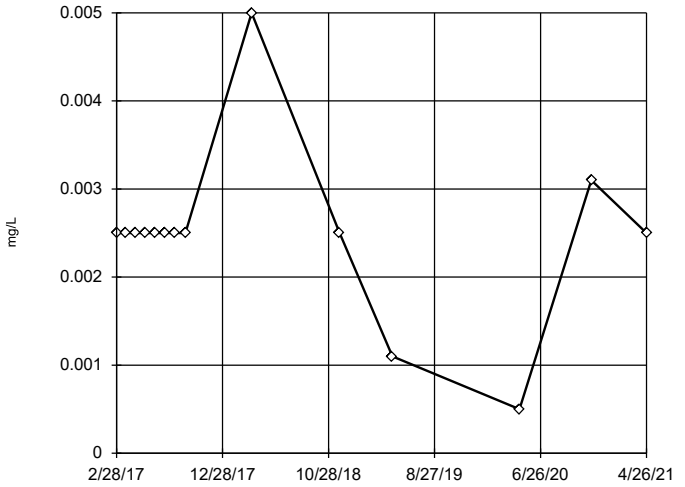
Tukey's Outlier Screening

MW-D2



n = 14

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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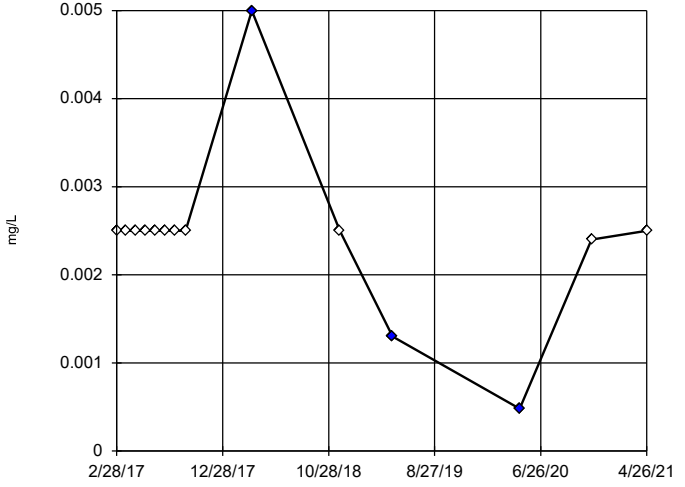
Tukey's Outlier Screening

MW-D3



n = 14

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 0.002654, low cutoff = 0.002302, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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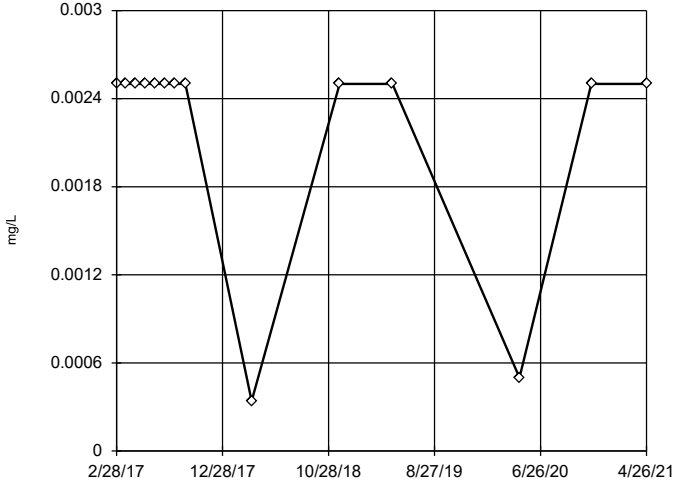
Tukey's Outlier Screening

MW-U1 (bg)



n = 14

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

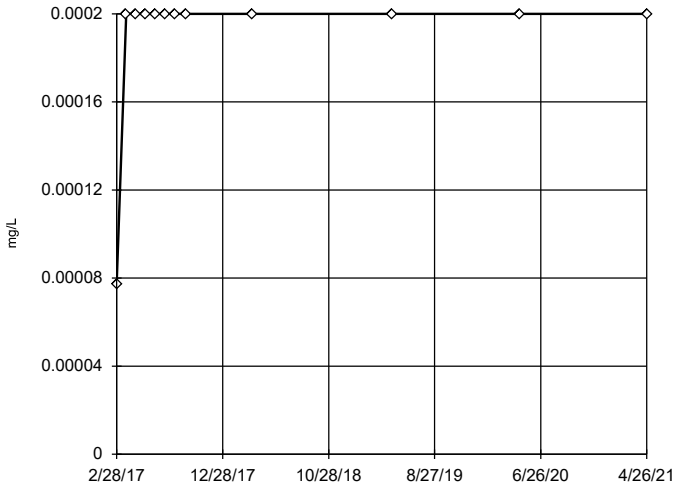
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

Tukey's Outlier Screening

MW-D1



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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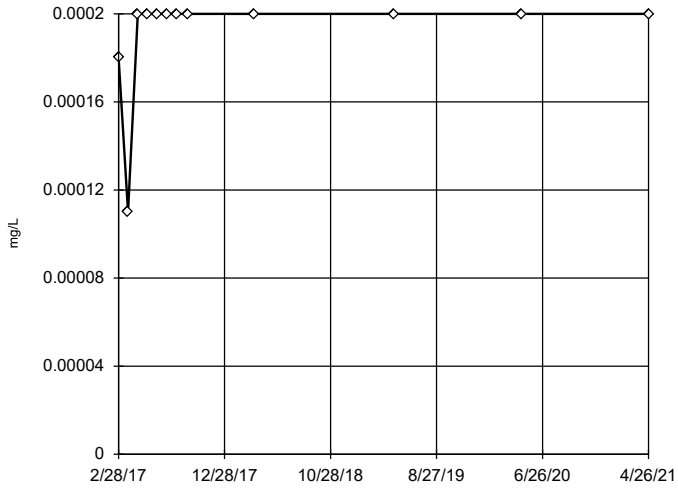
Tukey's Outlier Screening

MW-D2



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:44 AM View: Sampling Events 1 through 16

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

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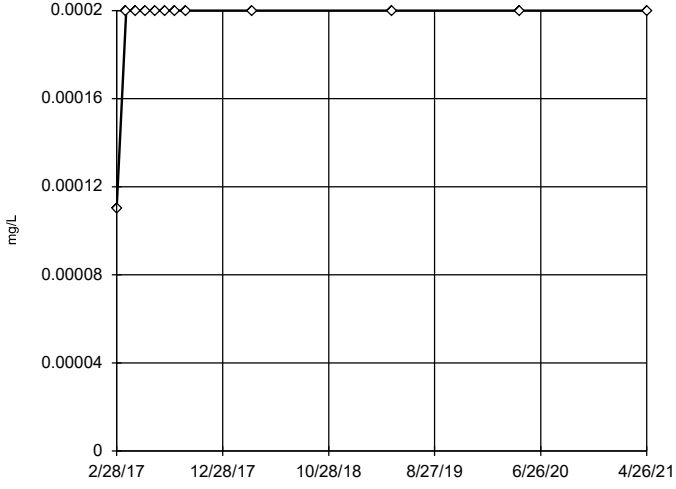
Tukey's Outlier Screening

MW-D3



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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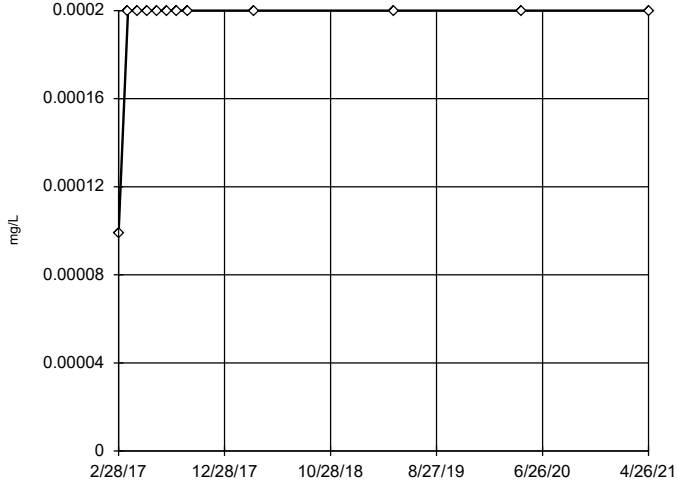
Tukey's Outlier Screening

MW-U1 (bg)



n = 12

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

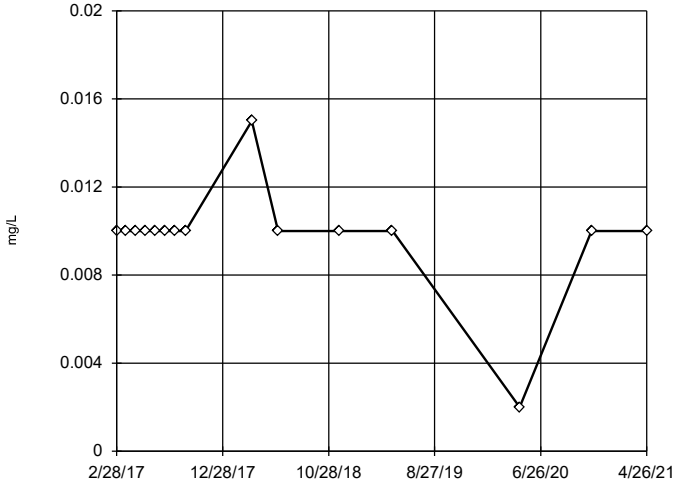
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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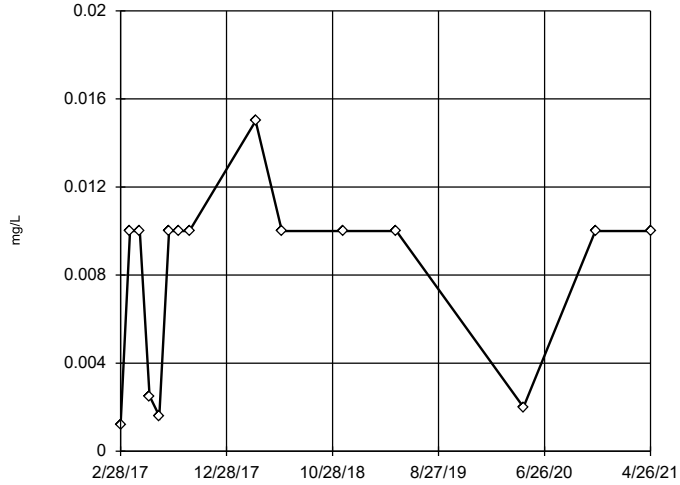
Tukey's Outlier Screening

MW-D2



n = 15

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 0.01953, low cutoff = -0.01658, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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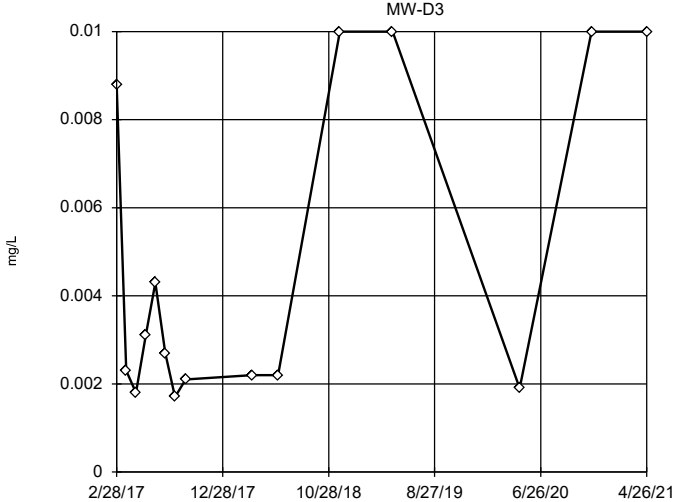
Tukey's Outlier Screening

MW-D3



n = 15

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 1.08, low cutoff = 0.00001945, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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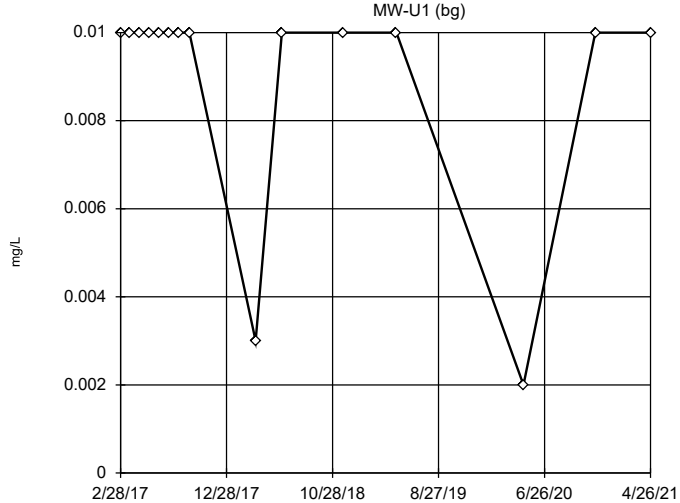
Tukey's Outlier Screening

MW-U1 (bg)



n = 15

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

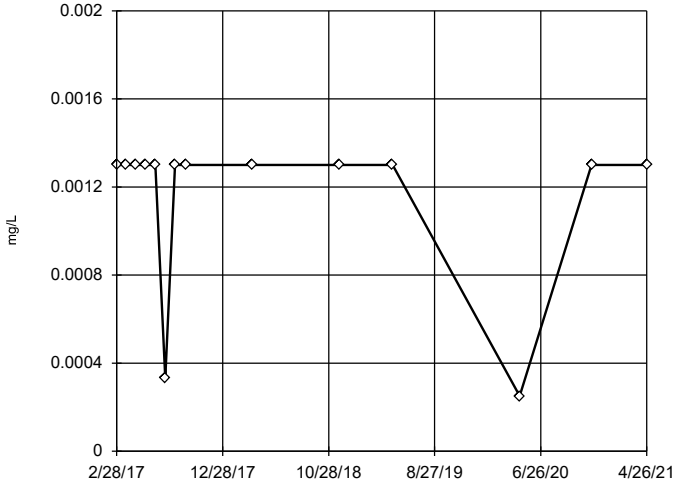
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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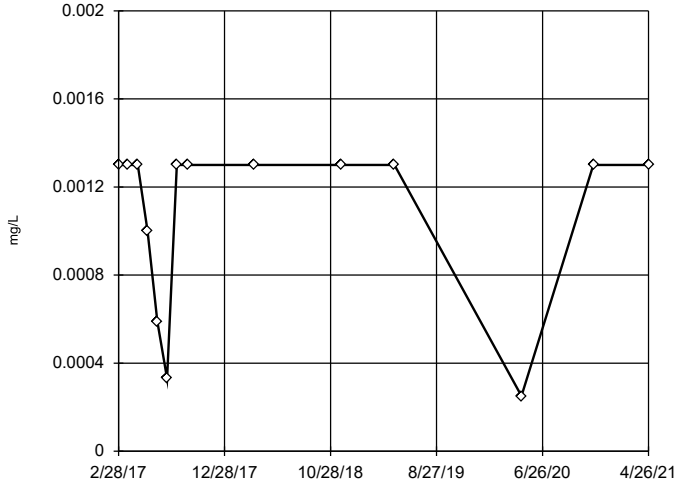
Tukey's Outlier Screening

MW-D2



n = 14

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 0.002177, low cutoff = -0.001541, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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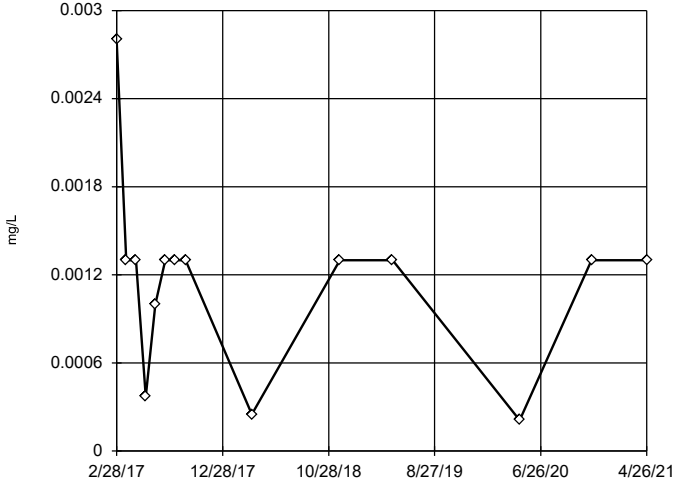
Tukey's Outlier Screening

MW-D3



n = 14

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

High cutoff = 0.004615, low cutoff = -0.00004161, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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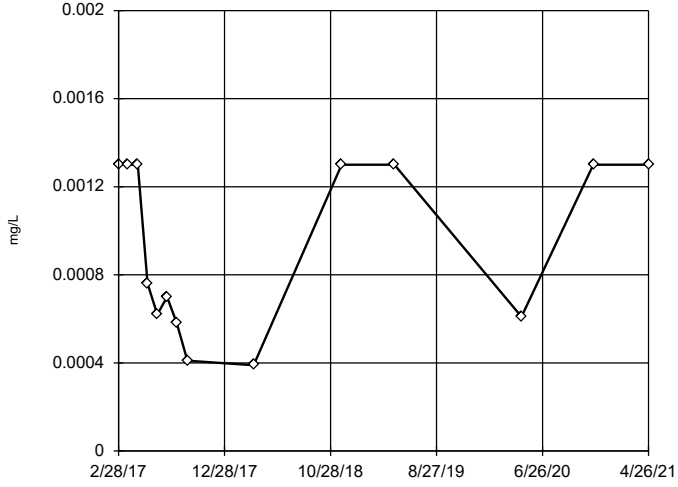
Tukey's Outlier Screening

MW-U1 (bg)



n = 14

No outliers found. Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

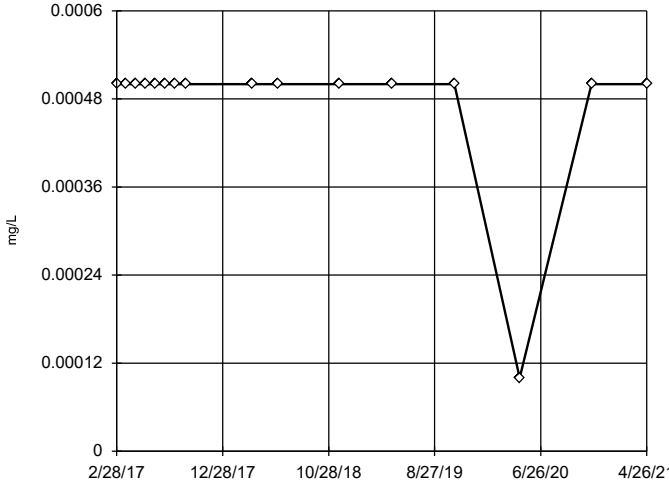
High cutoff = 0.01357, low cutoff = 0.00005698, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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 used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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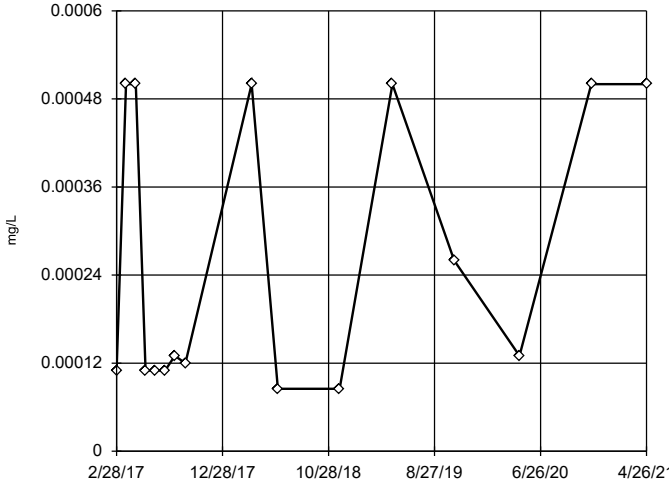
Tukey's Outlier Screening

MW-D2



n = 16

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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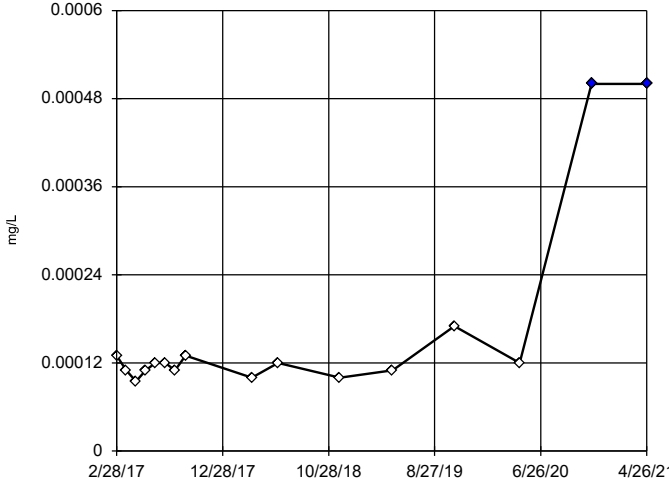
Tukey's Outlier Screening

MW-D3



n = 16

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 = 0.0002146, low cutoff = 0.00006664, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

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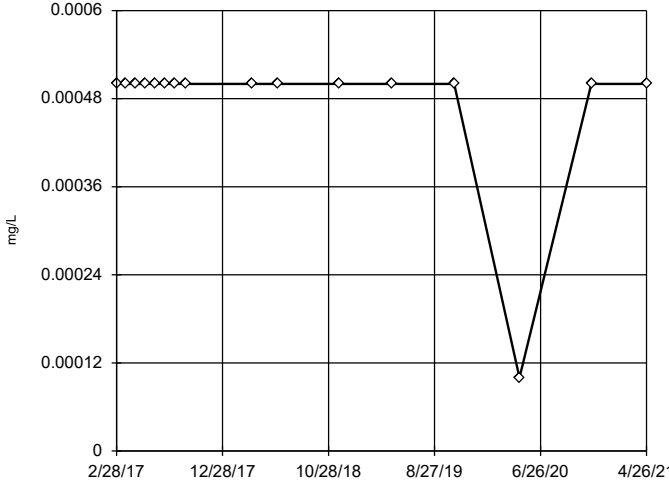
Tukey's Outlier Screening

MW-U1 (bg)



n = 16

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.05 alpha level.

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

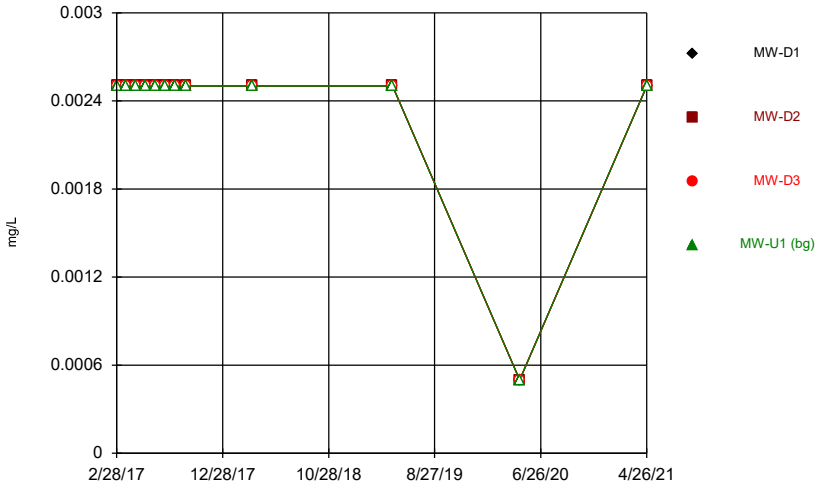
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 6/22/2021 11:45 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series

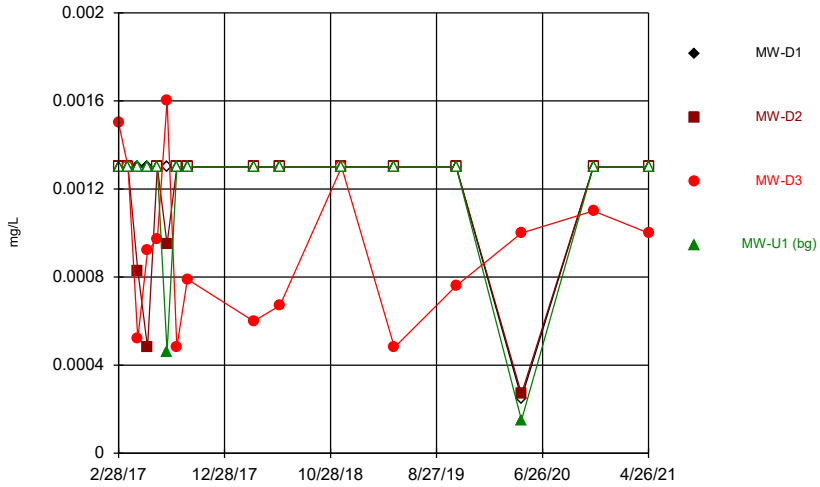


Constituent: Antimony Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

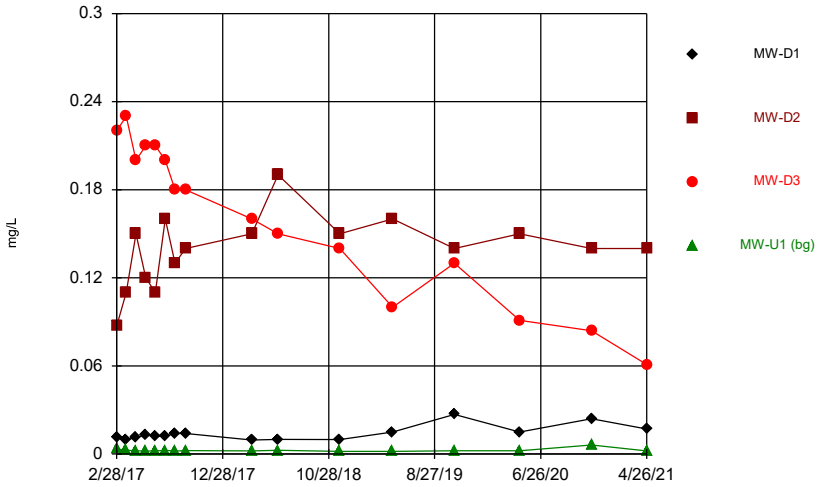
Time Series



Constituent: Arsenic Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Time Series

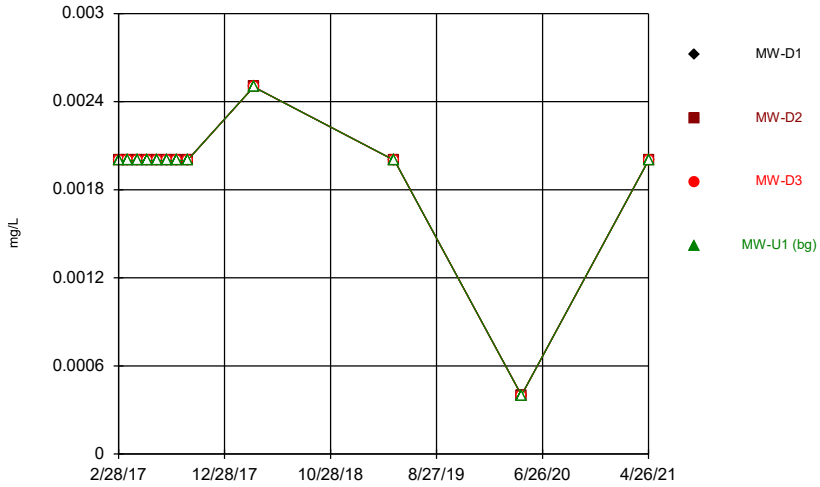


Constituent: Barium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series

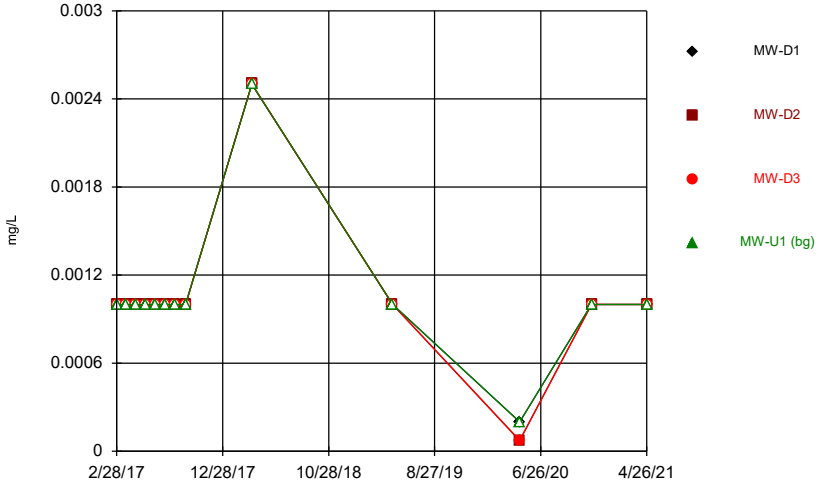


Constituent: Beryllium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series

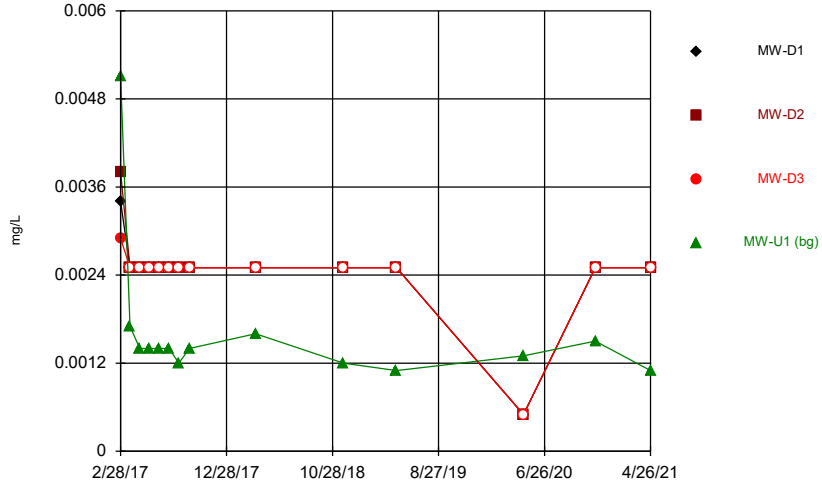


Constituent: Cadmium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series

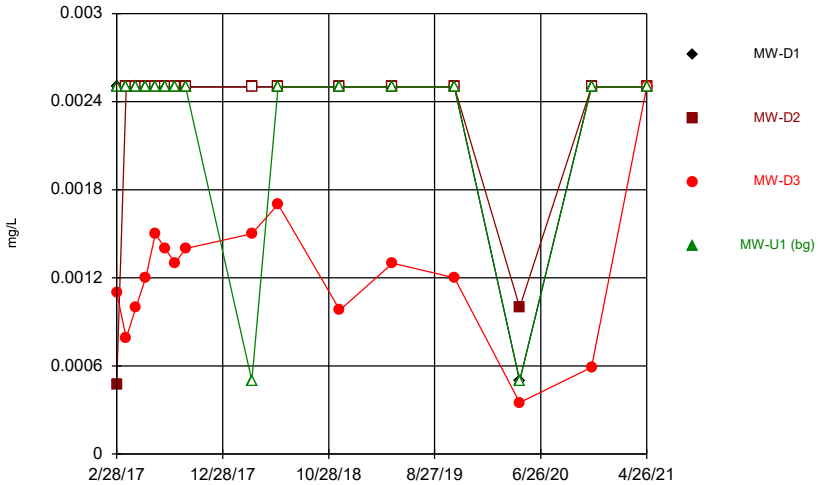


Constituent: Chromium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series

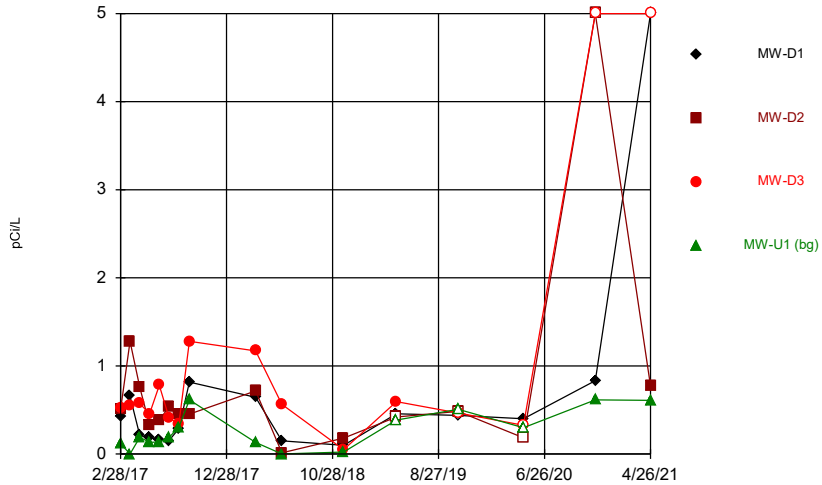


Constituent: Cobalt Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 thr

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

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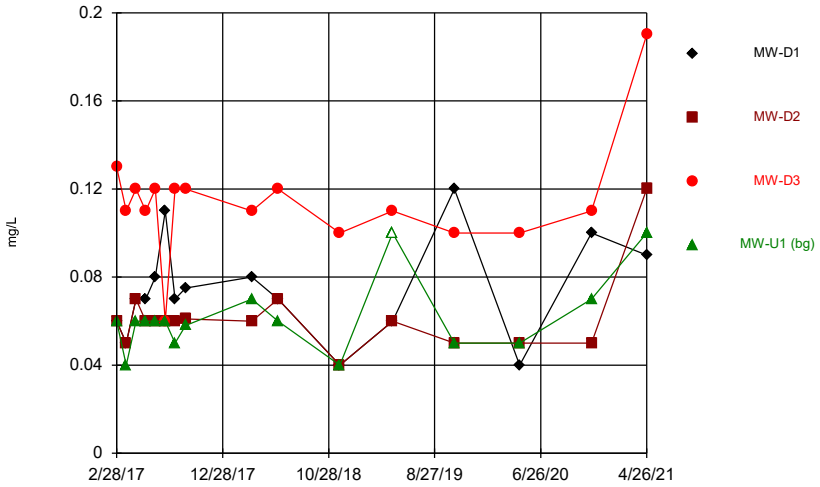
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

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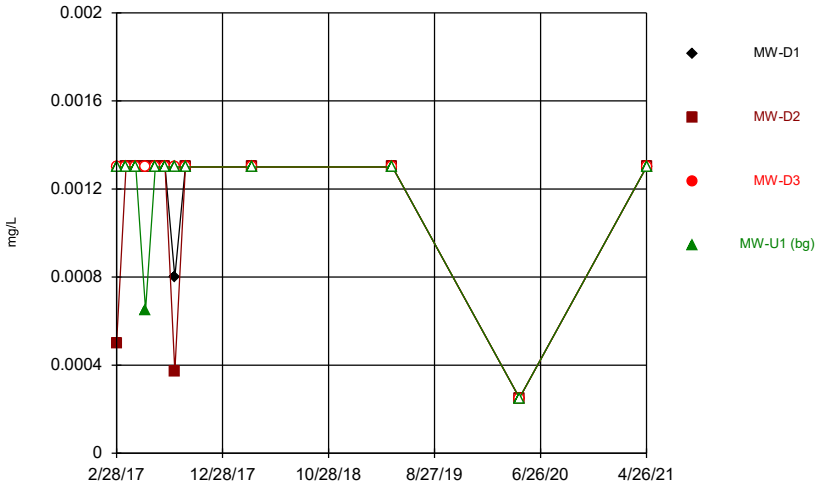
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

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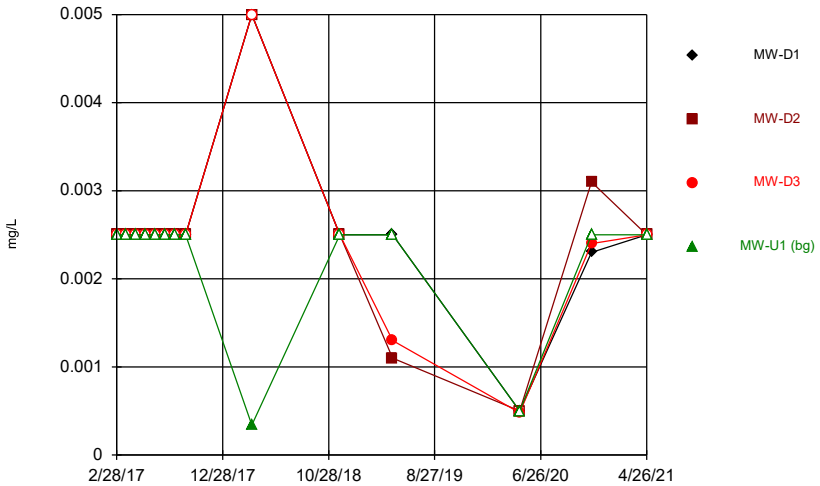
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

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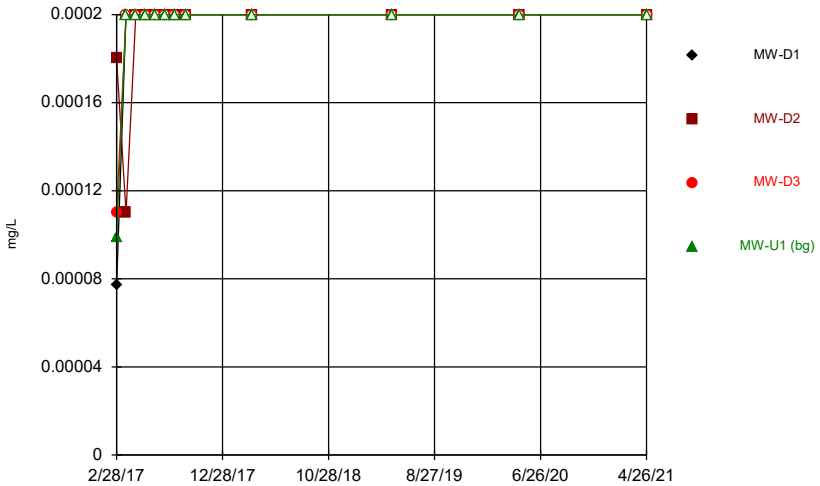
Hollow symbols indicate censored values.

Time Series

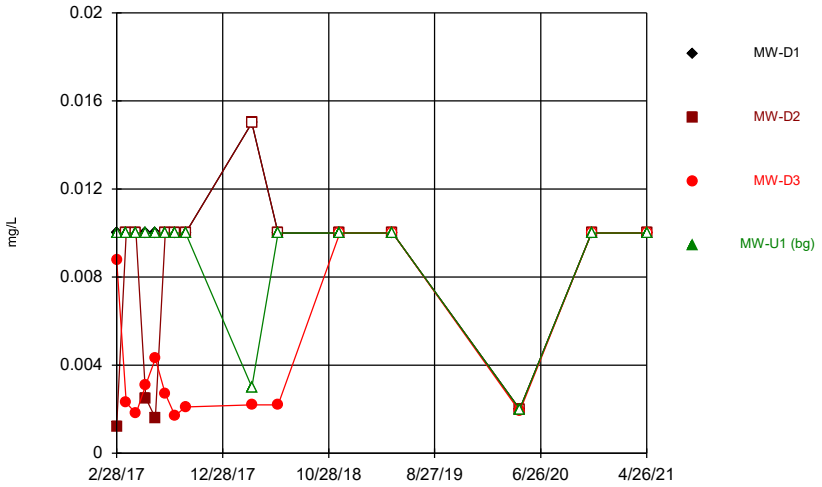


Constituent: Mercury Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

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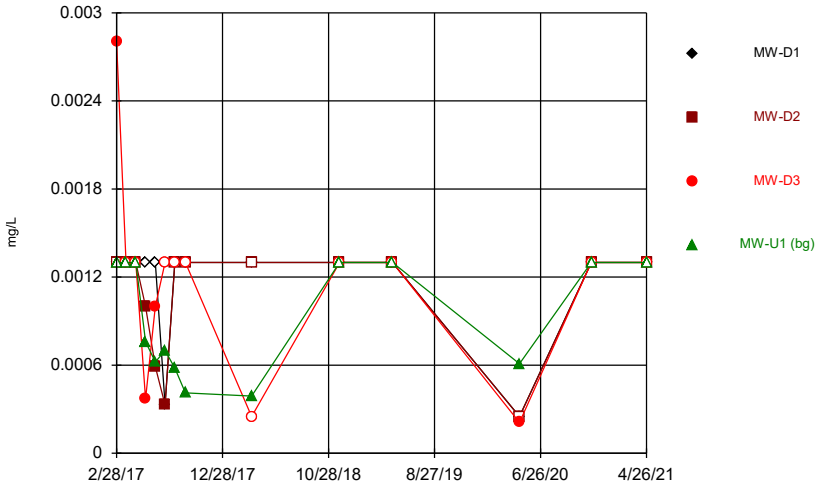
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

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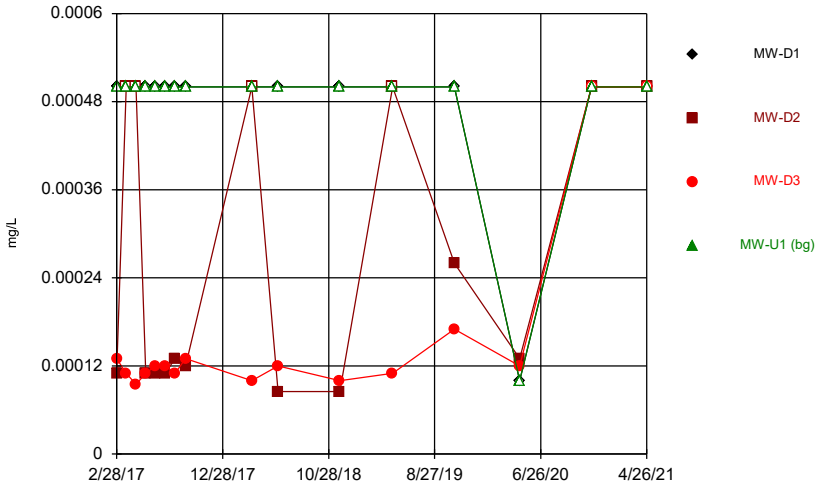
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/22/2021 11:37 AM View: Sampling Events 1 through 16

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

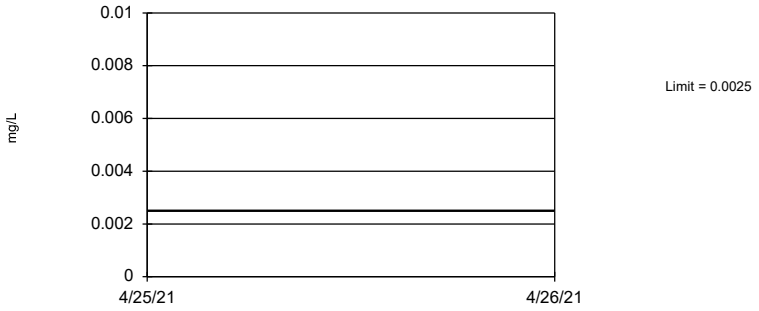
Tolerance Limit

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/22/2021, 11:52 AM

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	12	100	n/a	0.5404	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0013	n/a	n/a	n/a	16	87.5	n/a	0.4401	NP Inter(NDs)
Barium (mg/L)	n/a	0.0062	n/a	n/a	n/a	16	0	n/a	0.4401	NP Inter(normal...
Beryllium (mg/L)	n/a	0.002	n/a	n/a	n/a	12	100	n/a	0.5404	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	13	100	n/a	0.5133	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0051	n/a	n/a	n/a	14	0	n/a	0.4877	NP Inter(normal...
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	16	100	n/a	0.4401	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.148	n/a	n/a	n/a	16	18.75	No	0.01	Inter
Fluoride (mg/L)	n/a	0.1199	n/a	n/a	n/a	16	6.25	sqrt(x)	0.01	Inter
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	12	91.67	n/a	0.5404	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0025	n/a	n/a	n/a	14	92.86	n/a	0.4877	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	12	91.67	n/a	0.5404	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	15	100	n/a	0.4633	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0013	n/a	n/a	n/a	14	50	n/a	0.4877	NP Inter(normal...
Thallium (mg/L)	n/a	0.0005	n/a	n/a	n/a	16	100	n/a	0.4401	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 68.16% coverage at alpha=0.01; 77.93% coverage at alpha=0.05; 94.34% coverage at alpha=0.5. Report alpha = 0.5404.

Constituent: Antimony Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

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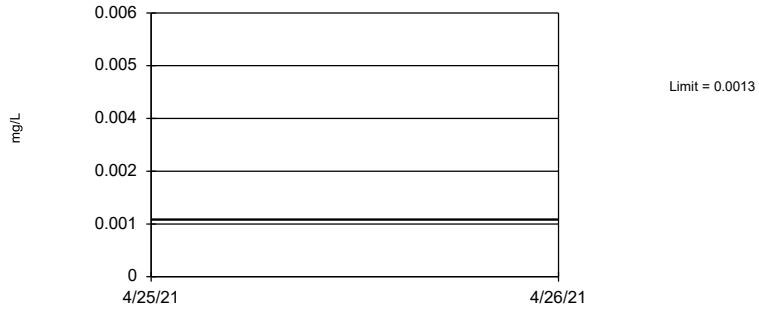
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 16 background values. 87.5% NDs. 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: Arsenic Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

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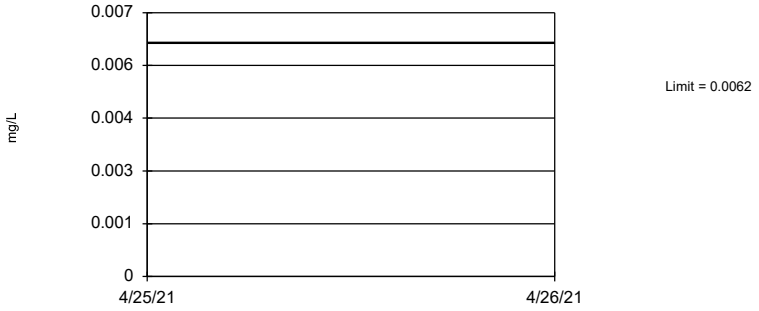
Tolerance Limit

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. 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.

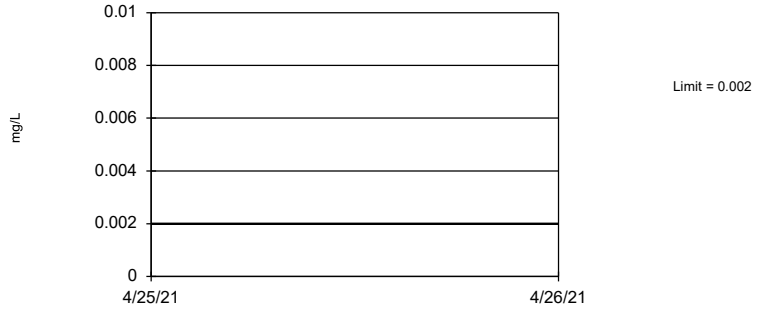
Constituent: Barium Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

Sanitas™ v.9.6.05 Software licensed to Geosyntec Consultants. Attorney-Client Privileged and Confidential. UG

Tolerance Limit

Interwell Non-parametric



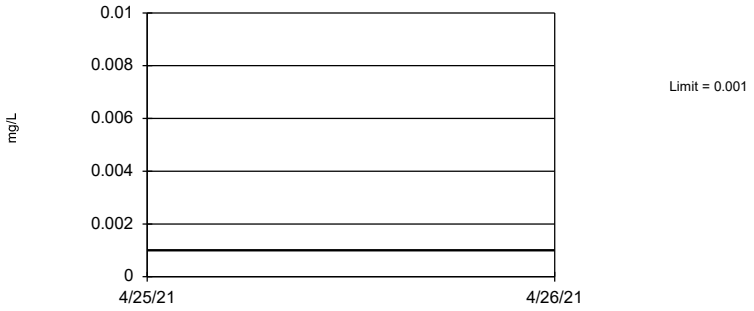
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 68.16% coverage at alpha=0.01; 77.93% coverage at alpha=0.05; 94.34% coverage at alpha=0.5. Report alpha = 0.5404.

Constituent: Beryllium Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



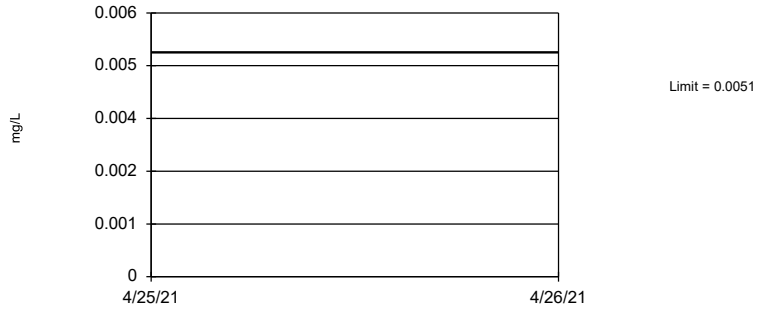
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 70.12% coverage at alpha=0.01; 79.49% coverage at alpha=0.05; 94.73% coverage at alpha=0.5. Report alpha = 0.5133.

Constituent: Cadmium Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



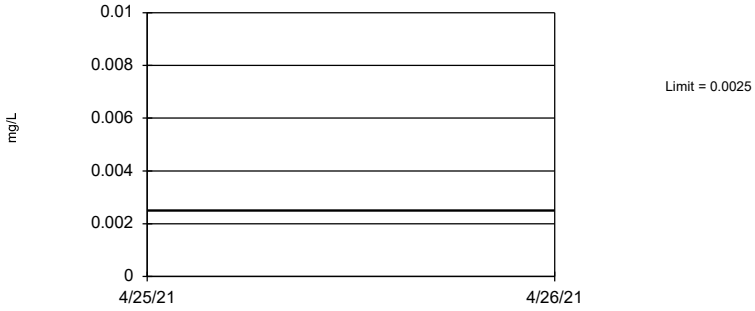
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 72.07% coverage at alpha=0.01; 80.66% coverage at alpha=0.05; 95.12% coverage at alpha=0.5. Report alpha = 0.4877.

Constituent: Chromium Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



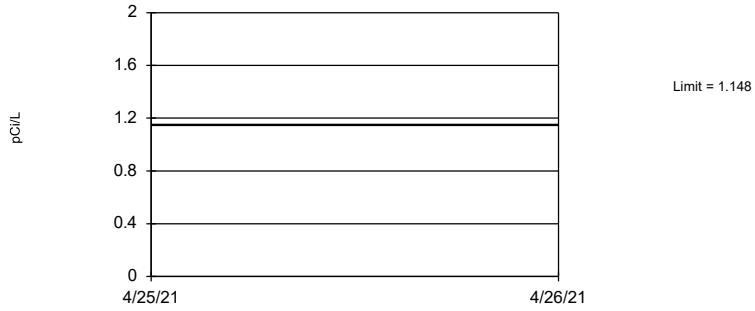
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 74.8% coverage at alpha=0.01; 83.01% coverage at alpha=0.05; 95.9% coverage at alpha=0.5. Report alpha = 0.4401.

Constituent: Cobalt Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Parametric



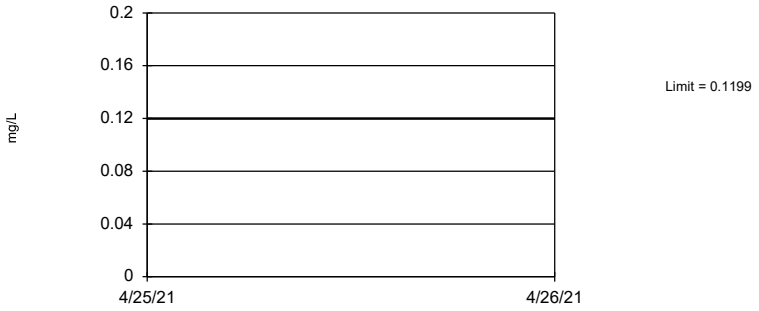
95% coverage. Background Data Summary (after Cohen`s Adjustment): Mean=0.317, Std. Dev.=0.2745, n=16, 18.75% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.885, critical = 0.844. Report alpha = 0.01.

Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 11:50 AM View: Sampling Events 1 thr

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

Tolerance Limit

Interwell Parametric



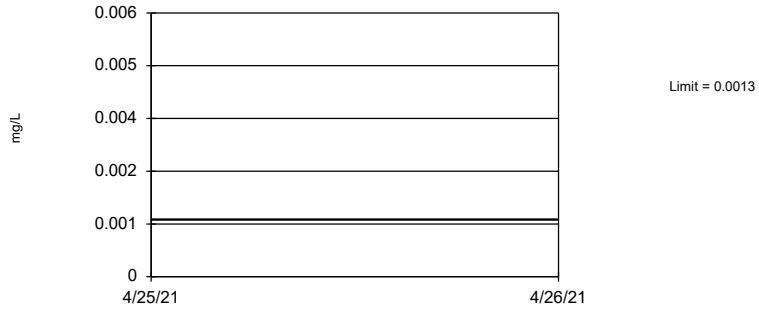
95% coverage. Background Data Summary (based on square root transformation): Mean=0.2464, Std. Dev.=0.03299, n=16, 6.25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8644, critical = 0.844. Report alpha = 0.01.

Constituent: Fluoride Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



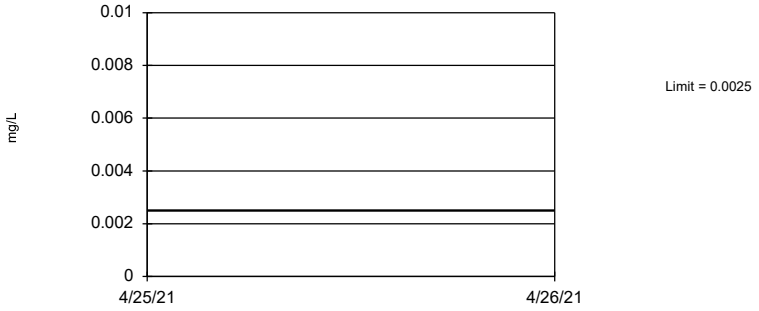
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 12 background values. 91.67% NDs. 68.16% coverage at alpha=0.01; 77.93% coverage at alpha=0.05; 94.34% coverage at alpha=0.5. Report alpha = 0.5404.

Constituent: Lead Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



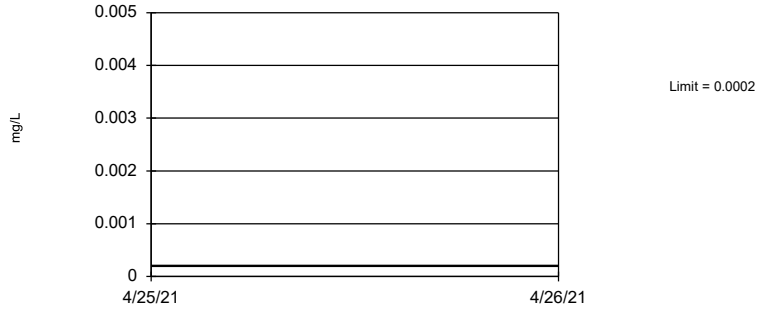
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 14 background values. 92.86% NDs. 72.07% coverage at alpha=0.01; 80.66% coverage at alpha=0.05; 95.12% coverage at alpha=0.5. Report alpha = 0.4877.

Constituent: Lithium Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



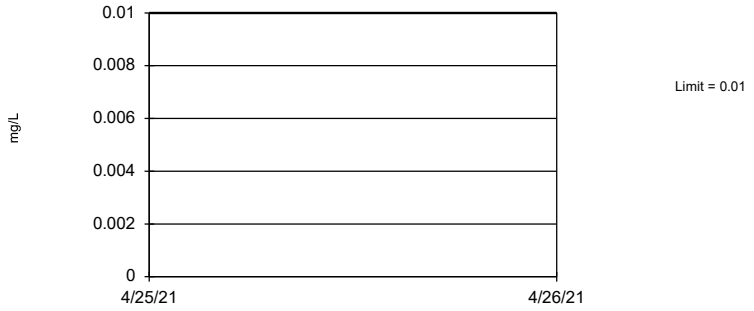
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 12 background values. 91.67% NDs. 68.16% coverage at alpha=0.01; 77.93% coverage at alpha=0.05; 94.34% coverage at alpha=0.5. Report alpha = 0.5404.

Constituent: Mercury Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



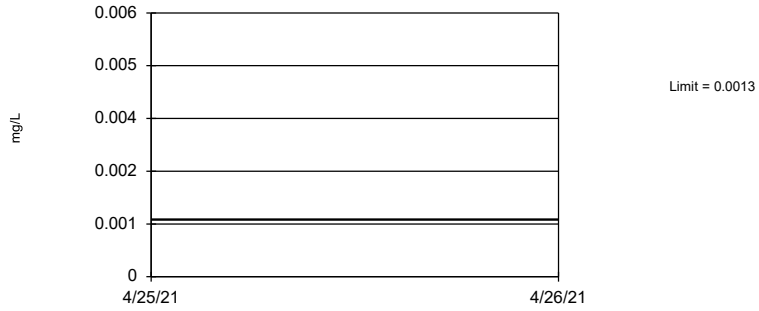
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 73.63% coverage at alpha=0.01; 81.84% coverage at alpha=0.05; 95.51% coverage at alpha=0.5. Report alpha = 0.4633.

Constituent: Molybdenum Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



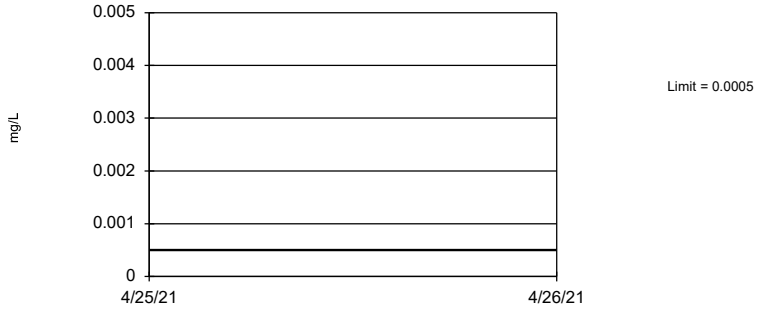
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 14 background values. 50% NDs. 72.07% coverage at alpha=0.01; 80.66% coverage at alpha=0.05; 95.12% coverage at alpha=0.5. Report alpha = 0.4877.

Constituent: Selenium Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. 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: Thallium Analysis Run 6/22/2021 11:51 AM View: Sampling Events 1 through 16

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

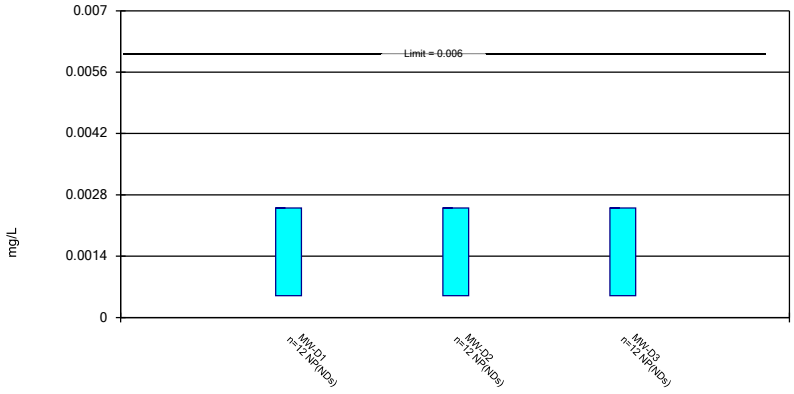
Confidence Interval

CCPC Plant Crisp Ash Pond Site Client: Geosyntec Data: Sanitas_Statistics Sampling Events 1 through 10 Printed 6/22/2021, 12:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	MW-D1	0.0025	0.0005	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D2	0.0025	0.0005	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	MW-D3	0.0025	0.0005	0.006	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D1	0.0013	0.00025	0.01	No	16	100	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-D2	0.0013	0.00083	0.01	No	16	75	No	0.01	NP (normality)
Arsenic (mg/L)	MW-D3	0.001168	0.0007062	0.01	No	16	12.5	No	0.01	Param.
Barium (mg/L)	MW-D1	0.017	0.01	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	MW-D2	0.1549	0.1234	2	No	16	0	No	0.01	Param.
Barium (mg/L)	MW-D3	0.1939	0.1244	2	No	16	0	No	0.01	Param.
Beryllium (mg/L)	MW-D1	0.0025	0.0004	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D2	0.0025	0.0004	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-D3	0.0025	0.0004	0.004	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D1	0.0025	0.0002	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D2	0.0025	0.000075	0.005	No	13	92.31	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-D3	0.0025	0.000071	0.005	No	13	92.31	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D1	0.0034	0.0005	0.1	No	14	92.86	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D2	0.0038	0.0005	0.1	No	14	92.86	No	0.01	NP (NDs)
Chromium (mg/L)	MW-D3	0.0029	0.0005	0.1	No	14	92.86	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D1	0.0025	0.0005	0.0025	No	16	100	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D2	0.0025	0.001	0.0025	No	16	87.5	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-D3	0.001555	0.0009213	0.0025	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-D1	0.816	0.153	5	No	16	18.75	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	MW-D2	0.773	0.184	5	No	16	25	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-D3	1.28	0.339	5	No	16	25	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D1	0.08886	0.05926	4	No	16	0	No	0.01	Param.
Fluoride (mg/L)	MW-D2	0.061	0.05	4	No	16	0	No	0.01	NP (normality)
Fluoride (mg/L)	MW-D3	0.13	0.1	4	No	16	0	No	0.01	NP (normality)
Lead (mg/L)	MW-D1	0.0013	0.0008	0.0013	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	MW-D2	0.0013	0.00037	0.0013	No	12	83.33	No	0.01	NP (NDs)
Lead (mg/L)	MW-D3	0.0013	0.00025	0.0013	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D1	0.005	0.0023	0.0025	No	14	92.86	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D2	0.0031	0.0011	0.0025	No	14	85.71	No	0.01	NP (NDs)
Lithium (mg/L)	MW-D3	0.005	0.0024	0.0025	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D1	0.0002	0.000077	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D2	0.0002	0.00018	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	MW-D3	0.0002	0.00011	0.002	No	12	91.67	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D1	0.015	0.002	0.01	No	15	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D2	0.015	0.002	0.01	No	15	80	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-D3	0.01	0.0019	0.01	No	15	26.67	No	0.01	NP (normality)
Selenium (mg/L)	MW-D1	0.0013	0.00033	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D2	0.0013	0.00059	0.05	No	14	78.57	No	0.01	NP (NDs)
Selenium (mg/L)	MW-D3	0.0028	0.00037	0.05	No	14	71.43	No	0.01	NP (normality)
Thallium (mg/L)	MW-D1	0.0005	0.0001	0.002	No	16	100	No	0.01	NP (NDs)
Thallium (mg/L)	MW-D2	0.0005	0.00011	0.002	No	16	37.5	No	0.01	NP (normality)
Thallium (mg/L)	MW-D3	0.00017	0.0001	0.002	No	16	12.5	No	0.01	NP (normality)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

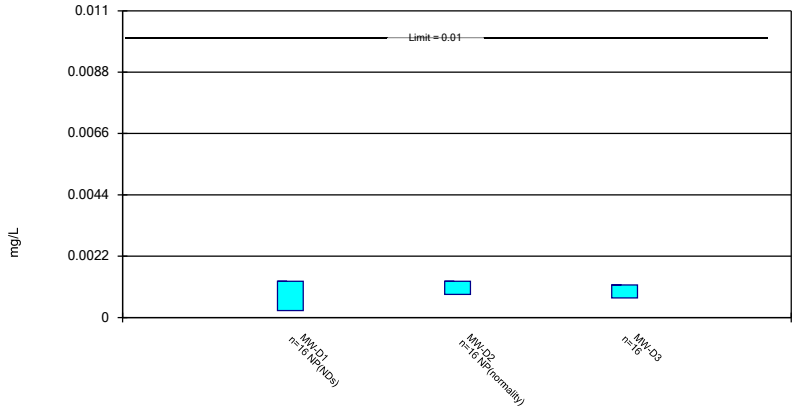


Constituent: Antimony Analysis Run 6/22/2021 12:27 PM View: Sampling Events 1 through 16

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.

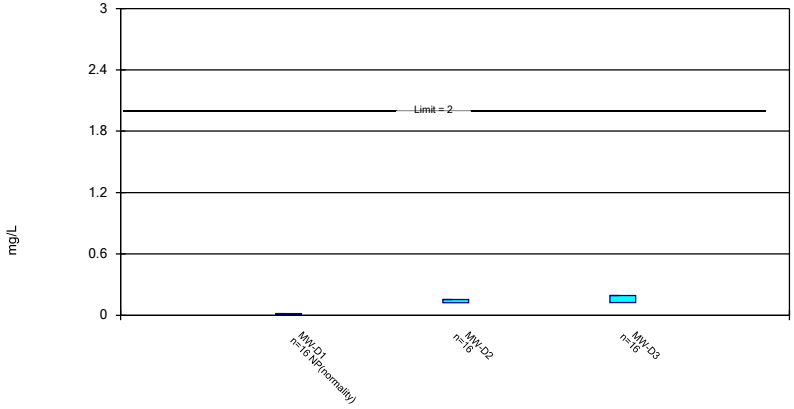


Constituent: Arsenic Analysis Run 6/22/2021 12:27 PM View: Sampling Events 1 through 16

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.

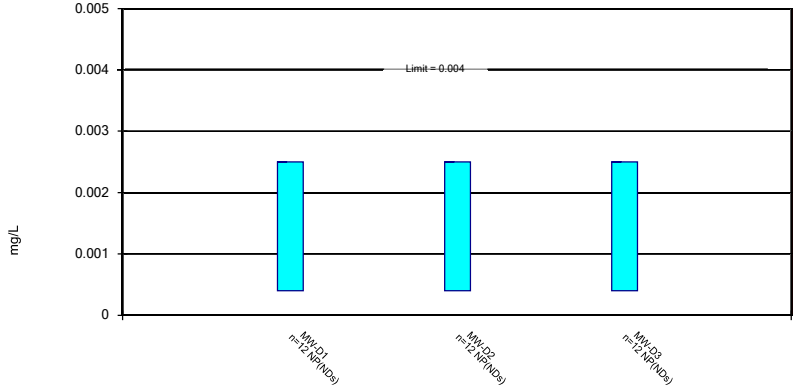


Constituent: Barium Analysis Run 6/22/2021 12:27 PM View: Sampling Events 1 through 16

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.

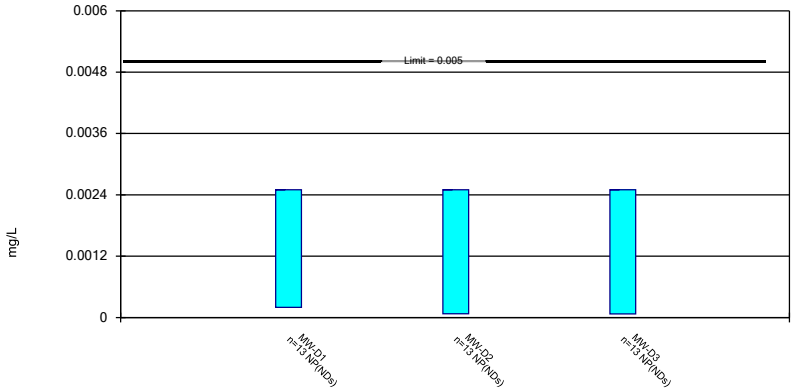


Constituent: Beryllium Analysis Run 6/22/2021 12:27 PM View: Sampling Events 1 through 16

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.

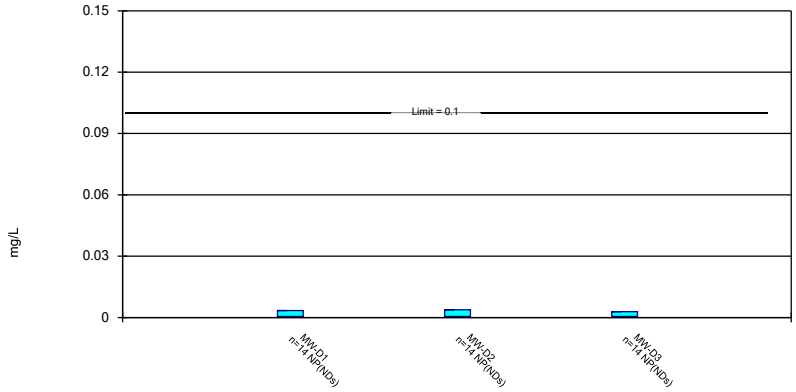


Constituent: Cadmium Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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.

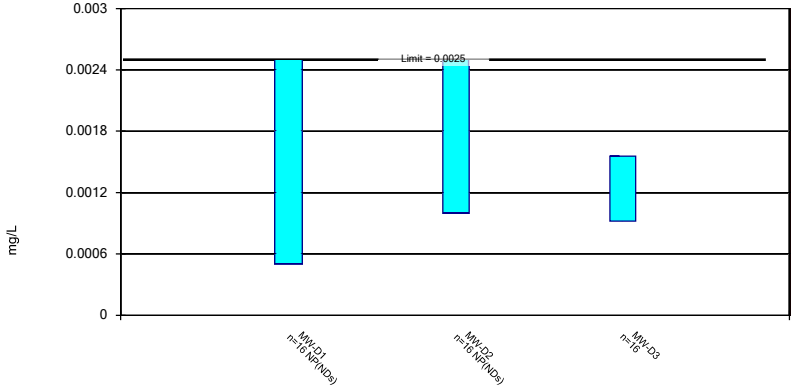


Constituent: Chromium Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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.

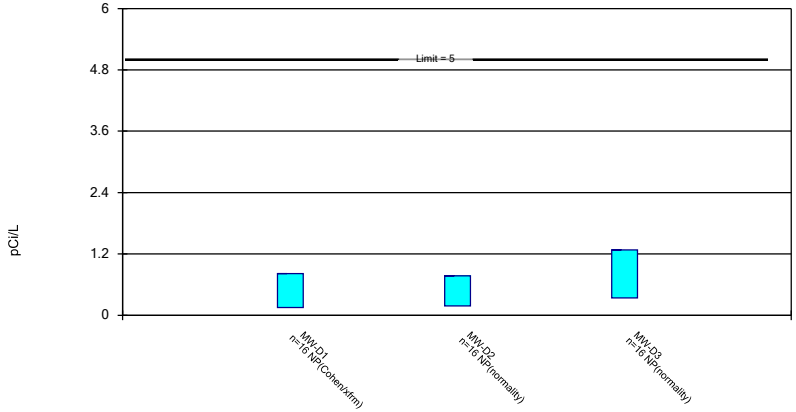


Constituent: Cobalt Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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.

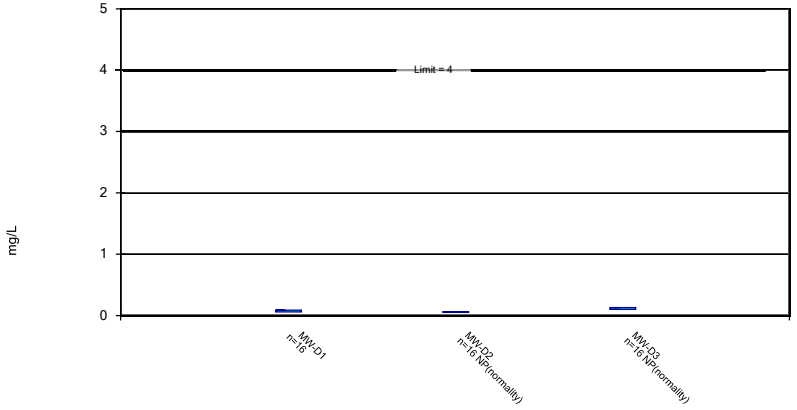


Constituent: Combined Radium 226 + 228 Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 thr

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.

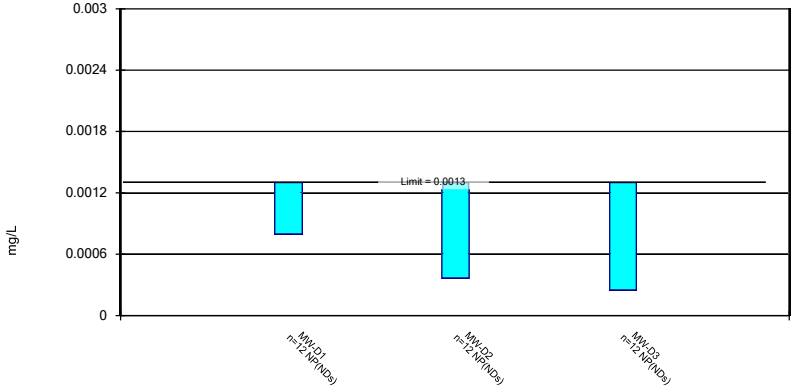


Constituent: Fluoride Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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.

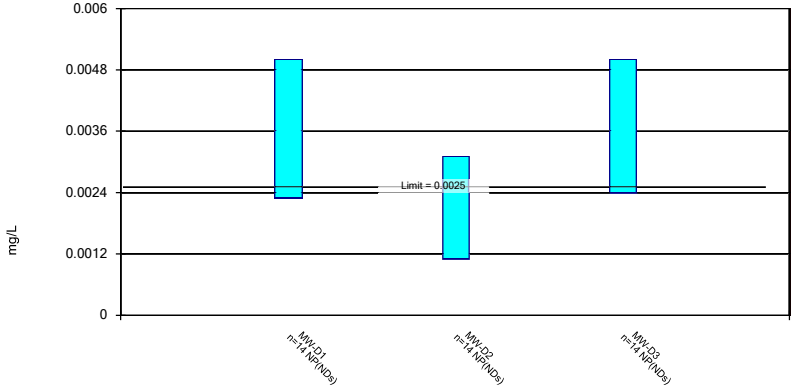


Constituent: Lead Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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.

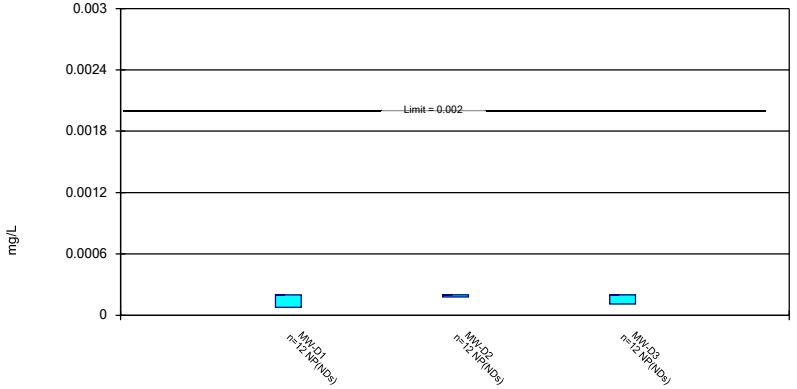


Constituent: Lithium Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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.

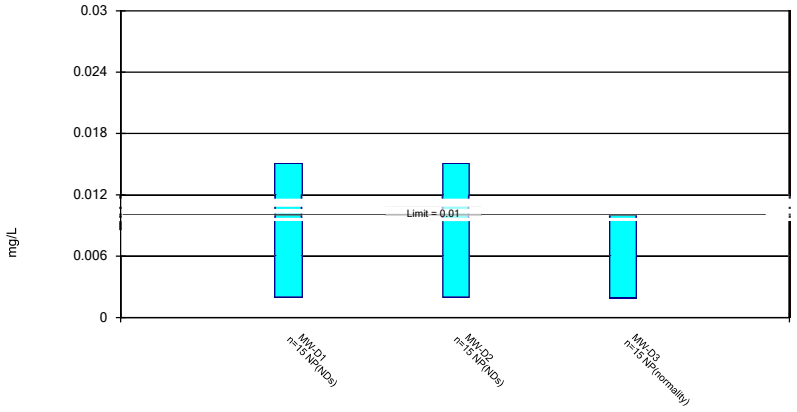


Constituent: Mercury Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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

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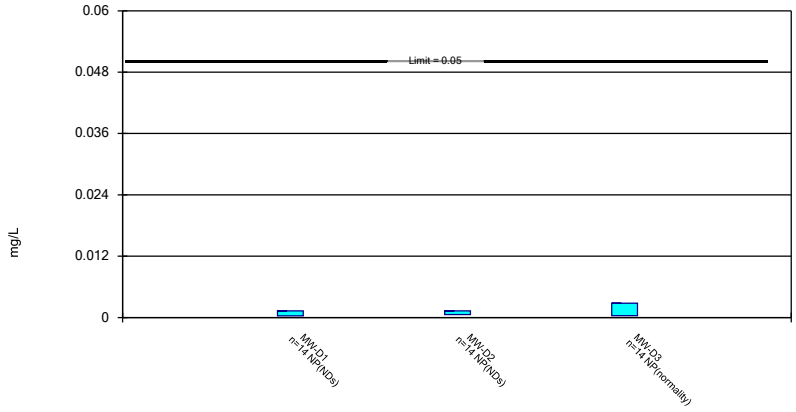
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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

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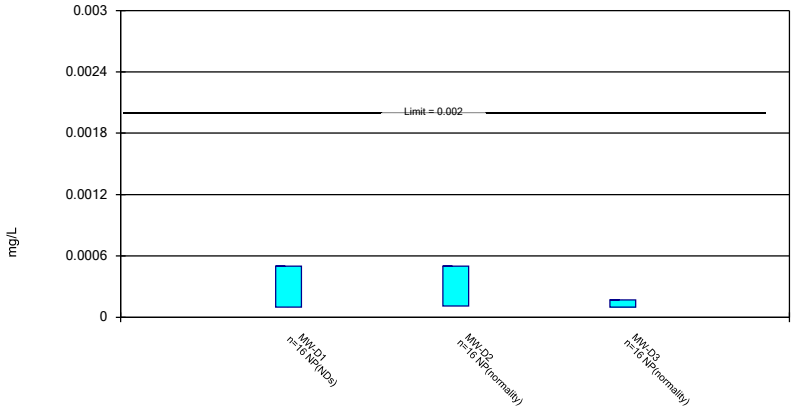
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/22/2021 12:28 PM View: Sampling Events 1 through 16

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